

# Package ‘DataVisualizations’

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**Type** Package

**Title** Visualizations of High-Dimensional Data

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**Maintainer** Michael Thrun <m.thrun@gmx.net>

**Description** Gives access to data visualisation methods that are relevant from the data scientist's point of view. The flagship idea of 'DataVisualizations' is the mirrored density plot (MD-plot) for either classified or non-classified multivariate data presented in Thrun et al. (2019) <arXiv:1908.06081>. The MD-plot outperforms the box-and-whisker diagram (box plot), violin plot and bean plot. Furthermore, a collection of various visualization methods for univariate data is provided. In the case of exploratory data analysis, 'DataVisualizations' makes it possible to inspect the distribution of each feature of a dataset visually through a combination of four methods. One of these methods is the Pareto density estimation (PDE) of the probability density function (pdf). Additionally, visualizations of the distribution of distances using PDE, the scatter-density plot using PDE for two variables as well as the Shepard density plot and the Bland-Altman plot are presented here. Pertaining to classified high-dimensional data, a number of visualizations are described, such as f.ex. the heat map and silhouette plot. A political map of the world or Germany can be visualized with the additional information defined by a classification of countries or regions. By extending the political map further, an uncomplicated function for a Choropleth map can be used which is useful for measurements across a geographic area. For categorical features, the Pie charts, slope charts and fan plots, improved by the ABC analysis, become usable. More detailed explanations are found in the book by Thrun, M.C.: ``Projection-Based Clustering through Self-Organization and Swarm Intelligence'' (2018) <doi:10.1007/978-3-658-20540-9>.

**License** GPL-3

**Imports** Rcpp (>= 0.12.12), ggplot2, sp

**Suggests** pracma, plyr, MBA, ggmap, reshape2, plotrix, rworldmap, rgl, ABCAnalysis, choroplethr, dplyr, R6, parallelDist, knitr (>= 1.12), rmarkdown (>= 0.9), vioplot, ggExtra, plotly, htmlwidgets, diptest, moments, signal, DatabionicSwarm, ggrepel

**LinkingTo** Rcpp, RcppArmadillo

**Depends** R (>= 3.5)

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**LazyData** TRUE

**URL** <http://www.deepbionics.org>

**VignetteBuilder** knitr

**BugReports** <https://github.com/Mthrun/DataVisualizations/issues>

**NeedsCompilation** yes

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**Description**

Gives access to data visualisation methods that are relevant from the data scientist's point of view. The flagship idea of 'DataVisualizations' is the mirrored density plot (MD-plot) for either classified or non-classified multivariate data presented in Thrun et al. (2019) <arXiv:1908.06081>. The MD-plot outperforms the box-and-whisker diagram (box plot), violin plot and bean plot. Furthermore, a

collection of various visualization methods for univariate data is provided. In the case of exploratory data analysis, 'DataVisualizations' makes it possible to inspect the distribution of each feature of a dataset visually through a combination of four methods. One of these methods is the Pareto density estimation (PDE) of the probability density function (pdf). Additionally, visualizations of the distribution of distances using PDE, the scatter-density plot using PDE for two variables as well as the Shepard density plot and the Bland-Altman plot are presented here. Pertaining to classified high-dimensional data, a number of visualizations are described, such as f.ex. the heat map and silhouette plot. A political map of the world or Germany can be visualized with the additional information defined by a classification of countries or regions. By extending the political map further, an uncomplicated function for a Choropleth map can be used which is useful for measurements across a geographic area. For categorical features, the Pie charts, slope charts and fan plots, improved by the ABC analysis, become usable. More detailed explanations are found in the book by Thrun, M.C.: "Projection-Based Clustering through Self-Organization and Swarm Intelligence" (2018) <doi:10.1007/978-3-658-20540-9>.

## Details

For a brief introduction to **DataVisualizations** please see the vignette [A Quick Tour in Data Visualizations](#).

Please see <http://www.deepbionics.org/>. Depending on the context please cite either [Thrun, 2018] regarding visualizations in the context of clustering or [Thrun/Ultsch, 2018] for other visualizations.

For the Mirrored Density Plot (MD plot) please cite [Thrun et al., 2019] and see the extensive vignette in <https://md-plot.readthedocs.io/en/latest/index.html>. The MD plot is also available in Python <https://pypi.org/project/md-plot/>

Index of help topics:

ABCbarplot	Barplot with Sorted Data Colored by ABCanalysis
AccountingInformation_PrimeStandard_Q3_2019	Accounting Information in the Prime Standard in Q3 in 2019 (AI_PS_Q3_2019)
BimodalityAmplitude	Bimodality Amplitude
ChoroplethPostalCodesAndAGS_Germany	Postal Codes and AGS of Germany for a Choropleth Map
Choroplethmap	Plots the Choropleth Map
ClassBoxplot	Creates Boxplot plot for all classes
ClassMDplot	Class MDplot for Data w.r.t. all classes
ClassPDEplot	PDE Plot for all classes
ClassPDEplotMaxLikeli	Create PDE plot for all classes with maximum likelihood
Classplot	Classplot
CombineCols	Combine vectors of various lengths
Crosstable	Crosstable plot
DataVisualizations-package	Visualizations of High-Dimensional Data
DefaultColorSequence	Default color sequence for plots
DensityScatter	Scatter Density Plot

DualaxisClassplot	Dualaxis Classplot
DualaxisLinechart	DualaxisLinechart
Fanplot	The fan plot
FundamentalData_Q1_2018	Fundamental Data of the 1st Quarter in 2018
GoogleMapsCoordinates	Google Maps with marked coordinates
Heatmap	Heatmap for Clustering
HeatmapColors	Default color sequence for plots
ITS	Income Tax Share
InspectBoxplots	Inspect Boxplots
InspectCorrelation	Inspect the Correlation
InspectDistances	Inspection of Distance-Distribution
InspectScatterplots	Pairwise scatterplots and optimal histograms
InspectStandardization	QQplot of Data versus Normalized Data
InspectVariable	Visualization of Distribution of one variable
JitterUniqueValues	Jitters Unique Values
Lsun3D	Lsun3D inspired by FCPS
MApplot	Minus versus Add plot
MDplot	Mirrored Density plot (MD-plot)
MDplot4multiplevectors	Mirrored Density plot (MD-plot)for Multiple Vectors
MTY	Municipal Income Tax Yield
OptimalNoBins	Optimal Number Of Bins
PDEplot	PDE plot
PDEscatter	Scatter Density Plot
ParetoDensityEstimation	Pareto Density EstimationV2
ParetoRadius	ParetoRadius for distributions
Piechart	The pie chart
Pixelmatrix	Plot of a Pixel Matrix
Plot3D	3D plot of points
PlotMissingvalues	Plot of the Amount Of Missing Values
PlotProductratio	Product-Ratio Plot
PmatrixColormap	P-Matrix colors
QQplot	QQplot with a Linear Fit
ShepardDensityScatter	Shepard PDE scatter
Sheparddiagram	Draws a Shepard Diagram
SignedLog	Signed Log
Silhouetteplot	Silhouette plot of classified data.
Slopechart	Slope Chart
SmoothedDensitiesXY	Smoothed Densities X with Y
StatPDEDensity	Pareto Density Estimation
Worldmap	plots a world map by country codes
categoricalVariable	A categorical Feature.
inPSphere2D	2D data points in Pareto Sphere
stat_pde_density	Calculate Pareto density estimation for ggplot2

```

plots
world_country_polygons
world_country_polygons
zplot          Plotting for 3 dimensional data

```

### Author(s)

Michael Thrun, Felix Pape, Onno Hansen-Goos, Alfred Ultsch

Maintainer: Michael Thrun <m.thrun@gmx.net>

### References

- [Thrun, 2018] Thrun, M. C.: Projection Based Clustering through Self-Organization and Swarm Intelligence, doctoral dissertation 2017, Springer, Heidelberg, ISBN: 978-3-658-20539-3, <https://doi.org/10.1007/978-3-658-20540-9>, 2018.
- [Thrun/Ultsch, 2018] Thrun, M. C., & Ultsch, A. : Effects of the payout system of income taxes to municipalities in Germany, in Papiez, M. & Smiech, S. (eds.), Proc. 12th Professor Aleksander Zelias International Conference on Modelling and Forecasting of Socio-Economic Phenomena, pp. 533-542, Cracow: Foundation of the Cracow University of Economics, Cracow, Poland, 2018.
- [Thrun et al., 2019] Thrun, M. C., Gehlert, Tino, & Ultsch, A. : Analyzing the Fine Structure of Distributions, arXiv:1908.06081, 2019.

### Examples

```

data("Lsun3D")
Data=Lsun3D$data

Pixelmatrix(Data)

InspectDistances(as.matrix(dist(Data)))

data("ITS")
data("MTY")
Inds=which(ITS<900&MTY<8000)
plot(ITS[Inds],MTY[Inds],main='Bimodality is not visible in normal scatter plot')

PDEscatter(ITS[Inds],MTY[Inds],xlab = 'ITS in EUR',
ylab ='MTY in EUR' ,main='Pareto Density Estimation indicates Bimodality' )

MAlist=MAplot(ITS,MTY)

data("Lsun3D")
Cls=Lsun3D$Cls

```

```

Data=Lsun3D$Data
#clear cluster structure
plot(Data[,1:2],col=Cl)
#However, the silhouette plot does not indicate a very good clustering in cluster 1 and 2

Silhouetteplot(Data,Cls = Cl)

Heatmap(as.matrix(dist(Data)),Cls = Cl)

```

ABCbarplot

*Barplot with Sorted Data Colored by ABCanalysis*

## Description

This plot can be read like a scree plot for PCA. It allowed to select the most important values visually.

## Usage

```

ABCbarplot(Data,
Colors=DataVisualizations::DefaultColorSequence[1:3],
main,xlab="Fraction of Data in %",ylab="Value")

```

## Arguments

Data	[1:n] vector of Data, e.g. eigenvalues of PCA
Colors	three colors for A, B and C
main	title of plot
xlab	xlabel
ylab	ylabel

## Details

ABC analysis is explained in **ABCanalysis**. The visualization is based on **ggplot2**.

## Value

List V of

ABCanalysis	output of <b>ABCanalysis</b>
ggobject	object of <b>ggplot2</b> plotted
DF	Data frame if another plot should be done manually

**Author(s)**

Michael Thrun

**References**

Ultsch. A., Lotsch J.: Computed ABC Analysis for Rational Selection of Most Informative Variables in Multivariate Data, PloS one, Vol. 10(6), pp. e0129767. doi 10.1371/journal.pone.0129767, 2015.

**See Also**

[ABCAnalysis](#)

**Examples**

```
data('FundamentalData_Q1_2018')
Data=as.matrix(FundamentalData_Q1_2018>Data)
Data[!is.finite(Data)]=0
results=prcomp(Data)
main="Scree plot with Class A of the Most-Important Eigenvalues"
ABCbarplot(results$sdev,ylab='Eigenvalues',main=main)$ggobject
```

**Description**

Accounting Information of 261 companies traded in the Frankfurt stock exchange in the German Prime standard.

**Usage**

```
data("AccountingInformation_PrimeStandard_Q3_2019")
```

**Format**

A list with of three objects

Key [1:n] Key of the 261 obeservations

Data [1:n,1:d] numeric matrix of 261 observations on the 45 variables describing the accounting information

Cls [1:n] a numeric vector of k clusters of the clustering performend in [Thrun/Ultsch, 2019]

**Details**

Detailed data description can be found in [Thrun/Ultsch, 2019].

**Source**

Yahoo Finance

**References**

[Thrun/Ultsch, 2019] Thrun, M. C., & Ultsch, A.: Stock Selection via Knowledge Discovery using Swarm Intelligence with Emergence, IEEE Intelligent Systems, Vol. under review, pp., 2019.

**Examples**

```
data(AccountingInformation_PrimeStandard_Q3_2019)  
  
str(AI_PS_Q3_2019)  
dim(AI_PS_Q3_2019>Data)
```

---

BimodalityAmplitude     *Bimodality Amplitude*

---

**Description**

Computes the Bimodality Amplitude of [Zhang et al., 2003]

**Usage**

```
BimodalityAmplitude(x, PlotIt=FALSE)
```

**Arguments**

x	Data vector.
PlotIt	FALSE, TRUE if a figure with the antimodes and peaks is plotted

**Details**

This function calculates the Bimodality Amplitude of a data vector. This is a measure of the proportion of bimodality and the existence of bimodality. The value lies between zero and one (that is: [0,1]) where the value of zero implies that the data is unimodal and the value of one implies the data is two point masses.

**Note**

function was rewritten after the flow of a function of Sathish Deevi because the original function was incorrect.

**Author(s)**

Michael Thrun

**References**

Zhang, C., Mapes, B., & Soden, B.: Bimodality in tropical water vapour, Quarterly Journal of the Royal Meteorological Society, Vol. 129(594), pp. 2847-2866, 2003.

**Examples**

```
#Example 1
data<-c(rnorm(299,0,1),rnorm(299,5,1))
BimodalityAmplitude(data,TRUE)

#Example 2
dist1<-rnorm(2100,5,2)
dist2<-dist1+11
data<-c(dist1,dist2)

BimodalityAmplitude(data,TRUE)

#Example 3
dist1<-rnorm(210,-15,1)
dist2<-rep(dist1,3)+30
data<-c(dist1,dist2)

BimodalityAmplitude(data,TRUE)

#Example 4
data<-runif(1000,-15,1)

BimodalityAmplitude(data,TRUE)
```

categoricalVariable    A *categorical Feature*.

**Description**

Character vector of length 391029 with five different labels.

**Usage**

```
data("categoricalVariable")
```

**Examples**

```
data(categoricalVariable)
unique(categoricalVariable)
```

---

Choroplethmap	<i>Plots the Choropleth Map</i>
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---

### Description

A thematic map with areas colored in proportion to the measurement of the statistical variable being displayed on the map. A political map generated by this function was used in the conference talk of the publication [Thrun/Ultsch, 2018].

### Usage

```
Choroplethmap(Counts, PostalCodes, NumberOfBins = 0,
               Breaks4Intervals, percentiles = c(0.5, 0.95),
               digits = 0, PostalCodesShapes, PlotIt = TRUE,
               DiscreteColors, HighColorContinuous = "red",
               LowColorContinuous = "deepskyblue1", NAcolor = "grey",
               ReferenceMap = FALSE, main = "Political Map of Germany",
               legend = "Range of values", Silent = TRUE)
```

### Arguments

Counts	vector [1:m], statistical variable being displayed
PostalCodes	vector[1:n], currently german postal codes (zip codes), if PostalCodesShapes is not changed manually, does not need to be unique
NumberOfBins	Default: 1; 1 or below continuously changes the color as defined by the package choroplethr. A Number between 2 and 9 sets equally sized bins. Higher numbers are not allowed
Breaks4Intervals	If NumberOfBins>1 you can set here the intervals of the bins manually
percentiles	If NumberOfBins>1 and Breaks4Intervals not set, then the percentiles of min and max bin can be set here. See also quantile.
digits	number of digits for round
PostalCodesShapes	Specially prepared shape file with postal codes and geographic boundaries. If you set this object, then you can use non german zip codes. You can see the required structure in map.df, github trulia choroplethr blob master r chloropleth. The German PostalCodesShapes can be downloaded from <a href="http://www.deepbionics.org/Projects/DataVisualizations.html">http://www.deepbionics.org/Projects/DataVisualizations.html</a> .
PlotIt	Either Plot the map directly or change the object manually before plotting it

DiscreteColors	Set the discrete colors manually if NumberOfBins>1, else it is ignored
HighColorContinuous	if NumberOfBins<=1: color of highest continuous value, else it is ignored
LowColorContinuous	if NumberOfBins<=1: color of lowest continuous value, else it is ignored
NAcolor	Color of NA values in the map (postal codes without any counts)
ReferenceMap	TRUE: With Google map, FALSE: without Google map
main	title of plot
legend	title of legend
Silent	TRUE: disable warnings of choroplethr package FALSE: enable warnings of choroplethr package

## Details

This wrapper for the **choroplethr** enables to visualize a political map easily in the case of german zip codes based on given counts and postal codes. Other postal codes are in principle usable.

## Value

List of	
chorR6obj	An R6 object of the package choroplethr
DataFrame	Transformed PostalCodes and Counts in a way that they can be used in the package choroplethr.

## Note

You could read <https://www.r-bloggers.com/case-study-mapping-german-zip-codes-in-r/>, if you want to change the map (PostalCodesShapes shape object).

## Author(s)

Michael Thrun

## References

[Thrun/Ultsch, 2018] Thrun, M. C. & Ultsch A. : Effects of the payout system of income taxes to municipalities in Germany, 12th Professor Aleksander Zelias International Conference on Modelling and Forecasting of Socio-Economic Phenomena, Foundation of the Cracow University of Economics, Zakopane, Poland, accepted, 2018.

## See Also

Google choroplethr package.

Examples are provided in <http://www.deepbionics.org/Projects/DataVisualizations.html>

## Examples

```
#If you download the package from CRAN

# 1. Step: Downlaod the shape file from the website
# www.deepbionics.org/Projects/DataVisualizations.html
# 2. Step: load it from the local path od the downloaded file with
load(file='GermanPostalCodesShapes.rda')

# If you download the package from GitHub, you can omit the two steps above.
# Then, do not use the 'PostalCodesShapes' input parameter

#Many postal codes are required to see a structure
#Exemplary two postal codes in the upper left corner of the map

out=Choroplethmap(c(4,8,5,4),
c('49838', '26817', '49838', '26817'),
NumberOfBins=2,PlotIt=FALSE,
PostalCodesShapes=GermanPostalCodesShapes)

out$chorR6obj$render()

#bins are only presented in the map if the have values within

out=Choroplethmap(c(4,8,5,4),c('49838', '26817',
'49838', '26817'),NumberOfBins=5,
Breaks4Intervals=c(1,2,3,5,10),PlotIt=FALSE,
PostalCodesShapes=GermanPostalCodesShapes)

out$chorR6obj$render()

# Result of [Thrun/Ultsch, 2018]
# Slightly misuse the function for visualizing a political map
# resulting out of a clustering

data('ChoroplethPostalCodesAndAGS_Germany')
res=Choroplethmap(as.numeric(ChoroplethPostalCodesAndAGS_Germany$Cls)+1,
ChoroplethPostalCodesAndAGS_Germany$PLZ,NumberOfBins = 2,
Breaks4Intervals = c(0,1,2,3,4,5,6),digits = 1,ReferenceMap = F,
DiscreteColors = c('white','green','blue','red','magenta'),
```

```

main = 'Classification of German Postal Codes based on Income Tax Share and Yield',
legend = 'ITS vs MTY Classification in 2010',NAcolor = 'black',PlotIt=FALSE,
PostalCodesShapes=GermanPostalCodesShapes)

#takes time to process
res$chorR6obj$render()

```

## ChoroplethPostalCodesAndAGS\_Germany

*Postal Codes and AGS of Germany for a Choropleth Map*

### Description

Zip Codes and Community Identification Number of Germany which can be used in a Choropleth Map.

### Usage

```
data("ChoroplethPostalCodesAndAGS_Germany")
```

### Format

A data frame with 8702 observations on the following 4 variables.

PLZ German postal codes/zip codes

CLS Clustering aggregated of germany postal codes by MTY and ITS features

AGS It is the 'Amtlicher Gemeindeschlüssel' (Community Identification Number) of German municipalities

Names Names of municipalities

### Details

CLS are the the labels of a MTS versus ITS Bayesian classification showing two main groups of low quota ('1') and high quota ('2') municipalities. Additionally, outliers are manually classified into two separated groups called sponsors ('3') and promoted ('4'). In the Bayesian Classification non classified data have the label '0'. If a 'AGS' code of a 'PLZ' was unclear than the label is 'NaN'.

Class	0	low quota	high quota	sponsors	promoted	non classified	unclear mapping
Labels	0	1	2	3	4	5	NaN
CountPerClass	31	1325	7239	10	95	5	2

## Source

Generated for [Thrun/Ultsch, 2018] using the approach of [Ultsch/Behnisch, 2017].

## References

[Thrun/Ultsch, 2018] Thrun, M. C., & Ultsch, A. : Effects of the payout system of income taxes to municipalities in Germany, in Papiez, M. & Smiech, S. (eds.), Proc. 12th Professor Aleksander Zelias International Conference on Modelling and Forecasting of Socio-Economic Phenomena, pp. 533-542, Cracow: Foundation of the Cracow University of Economics, Cracow, Poland, 2018.

[Ultsch/Behnisch, 2017] Ultsch, A., Behnisch, M.: Effects of the payout system of income taxes to municipalities in Germany, Applied Geography, Vol. 81, pp. 21-31, 2017.

## Examples

```
data(ChoroplethPostalCodesAndAGS_Germany)
str(ChoroplethPostalCodesAndAGS_Germany)
```

**ClassBoxplot**

*Creates Boxplot plot for all classes*

## Description

Boxplot the data for all classes

## Usage

```
ClassBoxplot(Data, Cls, ColorSequence = DataVisualizations::DefaultColorSequence,
             ClassNames = NULL, All=FALSE, PlotLegend = TRUE,
             main = 'Boxplot per Class', xlab = 'Classes', ylab = 'Range of Data')
```

## Arguments

Data	Vector of the data to be plotted
Cls	Vector of class identifiers.
ColorSequence	Optional: The sequence of colors used, Default: DefaultColorSequence()
ClassNames	Optional: The names of the classes. Default: C1 - C(Number of Classes)
All	Optional: adds full data vector for comparison against classes
PlotLegend	Optional: Add a legend to plot. Default: TRUE)
main	Optional: Title of the plot. Default: "ClassBoxPlot"
xlab	Optional: Title of the x axis. Default: "Classes"
ylab	Optional: Title of the y axis. Default: "Data"

**Value**

A List of

ClassData	The DataFrame used to plot
ggobject	The ggplot2 plot object
in mode invisible	

**Author(s)**

Michael Thrun, Felix Pape

**Examples**

```
data(ITS)
#please download package from cran
#model=AdaptGauss::AdaptGauss(ITS)
#Classification=AdaptGauss::ClassifyByDecisionBoundaries(ITS,
#DecisionBoundaries = AdaptGauss::BayesDecisionBoundaries(model$Means,model$SDs,model$Weights))
DataVisualizations::ClassBoxplot(ITS,Classification)$ggobject
```

*ClassMDplot*

*Class MDplot for Data w.r.t. all classes*

**Description**

Creates a Mirrored-Density plot w.r.t. to each class of a numerical vector of data.

**Usage**

```
ClassMDplot(Data, Cls,
ColorSequence = DataVisualizations::DefaultColorSequence,
ClassNames = NULL, PlotLegend = TRUE, main = 'MDplot for each Class',
xlab = 'Classes', ylab = 'PDE of Data per Class',
MinimalAmoutOfData=40,MinimalAmoutOfUniqueData=12,SampleSize=1e+05)
```

## Arguments

Data	[1:n] Vector of the data to be plotted
Cl	[1:n] Vector of class identifiers of k clusters one number is the label of one cluster
ColorSequence	Optional: [1:k] vector, The sequence of colors used, Default: DataVisualizations::DefaultColorSequence
ClassNames	Optional: [1:k] vector, The names of the classes. Default: C1 - C(Number of Classes)
PlotLegend	Optional: Add a legend to plot. Default: TRUE)
main	Optional: Title of the plot. Default: MDplot for each Class
xlab	Optional: Title of the x axis. Default: "Classes"
ylab	Optional: Title of the y axis. Default: "Data"
MinimalAmountOfData	Optional: numeric value defining a threshold. Below this threshold no density estimation is performed and a Jitter plot with a median line is drawn. Please see <a href="#">MDplot</a> for details.
MinimalAmountOfUniqueData	Optional: numeric value defining a threshold. Below this threshold no density estimation and statistical testing is performed and a Jitter plot is drawn. Only Data Science experts should change this value after they understand how the density is estimated (see [Ultsch, 2005]).
SampleSize	Optional: numeric value defining a threshold. Above this threshold class-wise uniform sampling of finite cases is performed in order to shorten computation time. If required, SampleSize=n can be set to omit this procedure.

## Details

Further examples for the ClassMDplot can be found in [https://md-plot.readthedocs.io/en/latest/application/example\\_application.html](https://md-plot.readthedocs.io/en/latest/application/example_application.html).

The Cls vector is reordered from lowest to highest number. The ClassNames vector and ColorSequence vectors are matched by this ordering of Cls, i.e. the lowest number gets the first color or class name.

## Value

A List of

ClassData	The DataFrame used to plot with the reordered Cls
gobject	The ggplot2 plot object

in mode invisible

## Author(s)

Michael Thrun, Felix Pape

## References

Thrun, M. C., Breuer, L., & Ultsch, A. : Knowledge discovery from low-frequency stream nitrate concentrations: hydrology and biology contributions, Proc. European Conference on Data Analysis (ECDA), Paderborn, Germany, 2018.

## See Also

[https://md-plot.readthedocs.io/en/latest/application/example\\_application.html](https://md-plot.readthedocs.io/en/latest/application/example_application.html)  
[MDplot https://pypi.org/project/md-plot/](https://pypi.org/project/md-plot/)

## Examples

```
data(ITS)
#please download package from cran
#model=AdaptGauss::AdaptGauss(ITS)
#Classification=AdaptGauss::ClassifyByDecisionBoundaries(ITS,
#DecisionBoundaries = AdaptGauss::BayesDecisionBoundaries(model$Means,model$SDs,model$Weights))
DataVisualizations::ClassMDplot(ITS,Classification)
```

ClassPDEplot

*PDE Plot for all classes*

## Description

PDEplot the data for all classes, weights the pdf with priors

## Usage

```
ClassPDEplot(Data, Cls, ColorSequence,
ColorSymbSequence, PlotLegend = 1,
SameKernelsAndRadius = 0, xlim, ylim, ...)
```

## Arguments

Data	The Data to be plotted
Cls	Vector of class identifiers. Can be integers or NaN's, need not be consecutive nor positive
ColorSequence	Optional: the sequence of colors used, Default: DefaultColorSequence

ColorSymbSequence	Optional: the plot symbols used (theoretisch nicht notwendig, da erst wichtig, wenn mehr als 562 Cluster)
PlotLegend	Optional: add a legend to plot (default == 1)
SameKernelsAndRadius	Optional: Use the same PDE kernels and radii for all distributions (default == 0)
xlim	Optional: range of the x axis
ylim	Optional: range of the y axis
...	further arguments passed to plot

**Value**

Kernels of the Pareto density estimation in mode invisible

**Author(s)**

Michael Thrun

**Examples**

```
data(ITS)
#please download package from cran
#model=AdaptGauss::AdaptGauss(ITS)
#Classification=AdaptGauss::ClassifyByDecisionBoundaries(ITS,
#DecisionBoundaries = AdaptGauss::BayesDecisionBoundaries(model$Means,model$SDs,model$Weights))
DataVisualizations::ClassPDEplot(ITS,Classification)$ggobject
```

**ClassPDEplotMaxLikeli** *Create PDE plot for all classes with maximum likelihood*

**Description**

PDEplot the data for allclasses, weight the Plot with 1 (= maximum likelihood)

**Usage**

```
ClassPDEplotMaxLikeli(Data, Cls, ColorSequence = DataVisualizations::DefaultColorSequence,
ClassNames, PlotLegend = TRUE, MinAnzKernels = 0, PlotNorm,
main = "Pareto Density Estimation (PDE)",
xlab = "Data", ylab = "ParetoDensity", xlim, ylim, lwd=1, ...)
```

### Arguments

<code>Data</code>	The Data to be plotted
<code>Cls</code>	Vector of class identifiers. Can be integers or NaN's, need not be consecutive nor positive
<code>ColorSequence</code>	Optional: the sequence of colors used, Default: <code>DefaultColorSequence</code>
<code>ClassNames</code>	Optional: the names of the classes to be displayed in the legend
<code>PlotLegend</code>	Optional: add a legend to plot (default == 1)
<code>MinAnzKernels</code>	Optional: Minimum number of kernels
<code>PlotNorm</code>	Optional: ==1 => plot Normal distribution on top , ==2 = plot robust normal distribution; default: <code>PlotNorm= 0</code>
<code>main</code>	Optional: Title of the plot
<code>xlab</code>	Optional: title of the x axis
<code>ylab</code>	Optional: title of the y axis
<code>xlim</code>	Optional: area of the x-axis to be plotted
<code>lwd</code>	Optional: area of the y-axis to be plotted
<code>ylim</code>	numerical scalar defining the width of the lines
<code>...</code>	further arguments passed to plot

### Value

<code>Kernels</code>	Kernels of the distributions
<code>ClassParetoDensities</code>	Pareto densities for classes
<code>ggobject</code>	ggplot2 plot object. This should be used to further modify the plot

### Author(s)

Felix Pape

### References

Aubert, A. H., Thrun, M. C., Breuer, L., & Ultsch, A. : Knowledge discovery from high-frequency stream nitrate concentrations: hydrology and biology contributions, Scientific reports, Nature, Vol. 6(31536), pp. doi 10.1038/srep31536, 2016.

### Examples

```
data(ITS)
#model=AdaptGauss::AdaptGauss(ITS)
##please download package from cran
#Classification=AdaptGauss::ClassifyByDecisionBoundaries(ITS,
```

---

```
#DecisionBoundaries = AdaptGauss::BayesDecisionBoundaries(model$Means,model$SDs,model$Weights))

DataVisualizations::ClassPDEplotMaxLikeli(ITS,Classification)$ggobject
```

---

**Classplot***Classplot*

## Description

Allows to plot one time series or feature with a classification as a labeled scatter plot with a line. The colors are the labels defined by the classification. Usefull to see if temporal clustering has time dependent variations and for Hidden Markov Models (see Mthrun/RHmm on GitHub).

## Usage

```
Classplot(X, Y, Cls, Names=NULL,
na.rm=FALSE, xlab = "X", ylab = "Y",
main = "Class Plot", Colors, Size=8,
LineColor = NULL, LineWidth = 1, LineType = NULL,
Showgrid = TRUE, Plotter, SaveIt = FALSE)
```

## Arguments

X	[1:n] numeric vector or time
Y	[1:n] numeric vector of feature
Cls	[1:n] numeric vector of k classes, if not set per default every point is in first class
Names	[1:n] character vector of k classes, if not set perdefault Cls is used, if set, names the legend and the points
na.rm	Function may not work with non finite values. If these cases should be automatically removed, set parameter TRUE
xlab	Optional, string for xlabel
ylab	Optional, string for ylabel
main	Optional, string for title of plot
Colors	Optional, string defining the k colors, one per class
Size	Optional, size of points
LineColor	Optional, name of color, in plotly then all points are connected by a curve, in ggplot2 all points of one class are connected by a curve of the color the class
LineWidth	Optional, number defining the width of the curve (plotly only)

LineType	Optional, string defining the type of the curve in plotly only, "dot", "dash", "-" for ggplot2: just set =1 here and then the curve is plotted
Showgrid	Optional, boolean (plotly only)
Plotter	Optional, either "ggplot" or "plotly", other string results in simple native plot
SaveIt	Optional, boolean, if true saves plot as html (plotly) or png (ggplot2)

**Details**

Default is "plotly" if Names are NULL. However, ggplot2 is preferable in case that Names parameter is used because overlapping text labels are avoided. In that case the default is "ggplot". Note that ggplot2 options are currently slightly restricted.

**Value**

plotly object or ggplot2 objected depending on Plotter

**Author(s)**

Michael Thrun

**See Also**

[DualaxisClassplot](#)

**Examples**

```
data(Lsun3D)
Classplot(Lsun3D$Data[,1],Lsun3D$Data[,2],Lsun3D$Cls)

#plotly with line
data(Lsun3D)
Classplot(Lsun3D$Data[,1],Lsun3D$Data[,2],Lsun3D$Cls,
LineType="-",LineColor = "green")

#ggplot2 with line and labels
data(Lsun3D)
Classplot(Lsun3D$Data[,1],Lsun3D$Data[,2],Lsun3D$Cls,
Names = rownames(Lsun3D$Data),Size =2,LineType = 1)
```

**Description**

Combine arbitrary vectors of data, filling in missing rows with NaN

**Usage**

```
CombineCols(...)
```

**Arguments**

... d vectors of arbitrary lengths, see example

**Details**

Robust alternative to [cbind](#) that fills missing values with nan instead of extending length of vector by duplicating elements

**Value**

matrix of dimensionality of n x d with n being the length of the longest vector and d the number of vectors given as input

**Note**

special application by MCT of rowr cbind.fill which is now not on CRAN anymore

**Author(s)**

Craig Varrichio

**Examples**

```
CombineCols(c(1,2,3),c(1),c(2,3))
```

---

Crosstable

*Crosstable plot*

---

**Description**

Presents a heatmap with values and a cross table of given Data matrix of two features and a bin width or percentualized values. In this approach the bin width is fixed. A more general way to approach this is the kernel density estimation plot of [PDEscatter](#).

**Usage**

```
Crosstable(Data, xbins = seq(0, 100, 5), ybins = xbins,
NormalizationFactor = 1, PlotIt = TRUE, main='Cross Table',
PlotText=TRUE, TextDigits=0, TextProbs=c(0.05,0.95))
```

## Arguments

Data	[1:n,1:2] matrix of two features from which the cross table should be generated from
xbins	[1:k] start of k bins as a vector generated with <a href="#">seq</a> of the first feature of data. Default setting assumes percentiled values between zero and 100.
ybins	[1:k] start of k bins as a vector generated with <a href="#">seq</a> of the second feature of data. Normally the same for both features, other settings are only possible if the length k is equal.
NormalizationFactor	Optional, Data feautures can be seen as regular time series, e.g. 1 measurement for a minute, in this case it is useful to normalize the output, e.g. to hours, then NormalizationFactor=60
PlotIt	Optional, Plots the heatmap if TRUE. The first feature is on the x-axis (left to right) and the second on y-axis (bottom to top).
main	In case of for PlotIt=TRUE: title of plot, see <a href="#">title</a>
PlotText	In case of for PlotIt=TRUE: Default TRUE: plots text in heatmap with the values of the crosstable
TextDigits	In case of for TextDigits=TRUE: integer indicating the number of decimal places to use in <a href="#">round</a> .
TextProbs	In case of for TextDigits=TRUE: [1:2] numeric vector of two probabilities defining the thresholds for white text to grey text and grey text to black text, e.g. below the first threshold (Default 0.05) all values (5% of values) will be printed in white because the lowest values of the heatmap are blue. The second value of 0.95 works well if cross table has many zeros; uses <a href="#">quantile</a> internally.

## Details

The interval in each bin is closed to the left and opened to the right. The cross table can be seen as a two-dimensional histogram. The idea to add histograms to the table is taken from [Charpentier. 2014].

## Value

The cross table in invisible mode which depicts the number of values (frequency) in an specific range with regard to two features.

The first feature is on the x-axis (left to right), and the second on y-axis (top to bottom) contrary to the plot where it is bottom to top.

## Note

For non percentiled values the PlotText part does not seem always to work, but I currently dont know why the text does not always overlap with the heatmap.

## Author(s)

Michael Thrun

## References

[Charpentier. 2014] Charpentier, Arthur, ed. Computational actuarial science with R. CRC Press, 2014.

## See Also

[table](#), [image](#), [PDEscatter](#)

## Examples

```
data(ITS)
data(MTY)
#simple but not a good transformation
Data=(cbind(ITS/max(ITS),MTY/max(MTY)))*100
#choice for bins could be better
Crosstable(Data)
```

---

DefaultColorSequence    *Default color sequence for plots*

---

## Description

Defines the default color sequence for plots made within the Projections package.

## Usage

```
data("DefaultColorSequence")
```

## Format

A vector with 562 different strings describing colors for plots.

---

DensityScatter    *Scatter Density Plot*

---

## Description

Density estimation (PDE) [Ultsch, 2005] or "SDH" [Eilers/Goeman, 2004] used for a scatter density plot.

**Usage**

```
DensityScatter(x,y, DensityEstimation="SDH",
               SampleSize, na.rm=FALSE, PlotIt=TRUE,
               NrOfContourLines=20, Plotter='native', DrawTopView = TRUE,
               xlab="X", ylab="Y", main="DensityScatter",
               xlim, ylim, Legendlab_ggplot="value", ...)
```

**Arguments**

x	Numeric vector [1:n], first feature (for x axis values)
y	Numeric vector [1:n], second feature (for y axis values)
DensityEstimation	"SDH" is very fast but maybe not correct, "PDE" is slow but probably more correct.
SampleSize	Numeric, positive scalar, maximum size of the sample used for calculation. High values increase runtime significantly. The default is that no sample is drawn
na.rm	Function may not work with non finite values. If these cases should be automatically removed, set parameter TRUE
PlotIt	TRUE: plots with function call FALSE: Does not plot, plotting can be done using the list element Handle
NrOfContourLines	Numeric, number of contour lines to be drawn. 20 by default.
Plotter	String, name of the plotting backend to use. Possible values are: "native", "ggplot", "plotly"
DrawTopView	Boolean, True means contour is drawn, otherwise a 3D plot is drawn. Default: TRUE
xlab	String, title of the x axis. Default: "X", see plot() function
ylab	String, title of the y axis. Default: "Y", see plot() function
main	string, the same as "main" in plot() function
xlim	see plot() function
ylim	see plot() function
Legendlab_ggplot	String, in case of Plotter="ggplot" label for the legend. Default: "value"
...	Density specific parameters, for PDEscatter() or SDH (nbins,lambda,Xkernels,Ykernel))

**Details**

The *DensityScatter* function generates the density of the xy data as a z coordinate. Afterwards xyz will be plotted either as a contour plot or a 3d plot. It assumes that the cases of x and y are mapped to each other meaning that a *cbind(x,y)* operation is allowed. This function plots

the Density on top of a scatterplot. Variances of x and y should not differ by extreme numbers, otherwise calculate the percentiles on both first. If DrawTopView=FALSE only the **plotly** option is currently available. If another option is chosen, the method switches automatically there.

**PlotIt=FALSE** is usefull if one likes to perform adjustements like axis scaling prior to plotting with **ggplot2** or **plotly**. In the case of "native" the handle returns NULL because the basic R functon **plot()** is used

### Value

List of:

X	Numeric vector [1:m],m<=n, first feature used in the plot or the kernels used
Y	Numeric vector [1:m],m<=n, second feature used in the plot or the kernels used
Densities	Number of points within the ParetoRadius of each point, i.e. density information
Handle	Handle of the plot object. Information-string if native R plot is used.

### Note

MT contributed with several adjustments

### Author(s)

Felix Pape

### References

- [Thrun, 2018] Thrun, M. C.: Projection Based Clustering through Self-Organization and Swarm Intelligence, (Ultsch, A. & Hullermeier, E. Eds., 10.1007/978-3-658-20540-9), Doctoral dissertation, Heidelberg, Springer, ISBN: 978-3658205393, 2018.
- [Thrun/Ultsch, 2018] Thrun, M. C., & Ultsch, A. : Effects of the payout system of income taxes to municipalities in Germany, in Papiez, M. & Smiech,, S. (eds.), Proc. 12th Professor Aleksander Zelias International Conference on Modelling and Forecasting of Socio-Economic Phenomena, pp. 533-542, Cracow: Foundation of the Cracow University of Economics, Cracow, Poland, 2018.
- [Ultsch, 2005] Ultsch, A.: Pareto density estimation: A density estimation for knowledge discovery, In Baier, D. & Werrnecke, K. D. (Eds.), Innovations in classification, data science, and information systems, (Vol. 27, pp. 91-100), Berlin, Germany, Springer, 2005.
- [Eilers/Goeman, 2004] Eilers, P. H., & Goeman, J. J.: Enhancing scatterplots with smoothed densities, Bioinformatics, Vol. 20(5), pp. 623-628. 2004.

### Examples

```
#taken from [Thrun/Ultsch, 2018]
data("ITS")
data("MTY")
Inds=which(ITS<900&MTY<8000)
plot(ITS[Inds],MTY[Inds],main='Bimodality is not visible in normal scatter plot')

DensityScatter(ITS[Inds],MTY[Inds],DensityEstimation="SDH",xlab = 'ITS in EUR',
```

```

ylab ='MTY in EUR' ,main='Smoothed Densities histogram indicates Bimodality' )

DensityScatter(ITS[Inds],MTY[Inds],DensityEstimation="PDE",xlab = 'ITS in EUR',
ylab ='MTY in EUR' ,main='PDE indicates Bimodality' )

```

**DualaxisClassplot***Dualaxis Classplot*

## Description

Allows to plot two time series or features with one or two classification(a) as labeled scatter plots. The colors are the labels defined by the classification. Usefull to see if temporal clustering has time dependent variations and for Hidden Markov Models (see Mthrun/RHmm on GitHub).

## Usage

```

DualaxisClassplot(X, Y1, Y2, Cls1,
                  Cls2, xlab = "X", y1lab = "Y1", y2lab = "Y2",
                  main = "Dual Axis Class Plot", Colors, Showgrid = TRUE, SaveIt = FALSE)

```

## Arguments

X	[1:n] numeric vector or time
Y1	[1:n] numeric vector of feauture
Y2	[1:n] numeric vector of feauture
Cls1	[1:n] numeric vector defining a classification of k1 classes
Cls2	Optional, [1:n] numeric vector defining a classification of k2 classes for Y2
xlab	Optional, string
y1lab	Optional, string
y2lab	Optional, string
main	Optional, string
Colors	[1:(k1+k2)] Colornames
Showgrid	Optional, boolean
SaveIt	Optional, boolean

## Value

plotly object

**Author(s)**

Michael Thrun

**See Also**

[Classplot](#)

**Examples**

##ToDo

---

DualaxisLinechart

*DualaxisLinechart*

---

**Description**

A line chart with dual axisSS

**Usage**

```
DualaxisLinechart(X, Y1, Y2, xlab = "X",
y1lab = "Y1", y2lab = "Y2", main = "Dual Axis Line Chart",
cols = c("black", "blue"), Overlaying="y", SaveIt = FALSE)
```

**Arguments**

X	[1:n] vector, both lines require the same xvalues, e.g. the time of the time series, POSIXlt or POSIXct are accepted
Y1	[1:n] vector of first line
Y2	[1:n] vector of second line
xlab	Optional, string for xlabel
y1lab	Optional, string for first ylabel
y2lab	Optional, string for second ylabel
main	Optional, title of plot
cols	Optional, color of two lines
Overlaying	Change only default in case of using <a href="#">subplot</a>
SaveIt	Optional, default FALSE; TRUE if you want to save plot as html in getwd() directory

**Details**

enables to visualize to lines in one plot overlaying them using ploty (e.g. two time series with two ranges of values)

**Value**

plotly object

**Author(s)**

Michael Thrun

**Examples**

```
#subplot renames the numbering of subsequent plots
y1=runif(100,0,1)
y2=rnorm(100,m=5,s=1)
DualaxisLinechart(1:100, y1, y2,main="Random Time series")

y1=runif(100,0,1)
y2=(1:100*3+4)*runif(100,0,1)
p1=DualaxisLinechart(1:100, y1, y2,main="Random Time series",Overlays="y2")

y3=1:100*(-2)+4
y4=rnorm(100,m=0,s=2)
p2=DualaxisLinechart(1:100, y3, y4,main="Random Time series",Overlays="y4")
plotly::subplot(p1,p2)
```

**Fanplot**

*The fan plot*

**Description**

The better alternative to the pie chart represents amount of values given in data.

**Usage**

```
Fanplot(Datavector,Names,Labels,MaxNumberOfSlices,main='',col,
MaxPercentage=FALSE,ShrinkPies=0.05,Rline=1.1)
```

**Arguments**

Datavector	[1:n] a vector of n non unique values
Names	Optional, [1:k] names to search for in Datavector, if not set unique of Datavector is calculated.
Labels	Optional, [1:k] Labels if they are specially named, if not Names are used.
MaxNumberOfSlices	Default is k, integer value defining how many labels will be shown. Everything else will be summed up to Other.

<code>main</code>	Optional, title below the fan pie, see <code>plot</code>
<code>col</code>	Optional, the default are the first [1:k] colors of the default color sequence used in this package, otherwise a character vector of [1:k] specifying the colors analogous to <code>plot</code>
<code>MaxPercentage</code>	default FALSE; if true the biggest slice is 100 percent instead of the biggest proportional count
<code>ShrinkPies</code>	Optional, distance between biggest and smallest slice of the pie
<code>Rline</code>	Optional, the distance between text and pie is defined here as the length of the line in numerical numbers

## Details

A normal pie plot is difficult to interpret for a human observer, because humans are not trained well to observe angles [Gohil, 2015, p. 102]. Therefore, the fan plot is used. As proposed in [Gohil 2015] the `fan.plot()` of the `plotrix` package is used to solve this problem. If Number of Slices is higher than `MaxNumberOfSlices` then ABCanalysis is applied (see [Ultsch/Lotsch, 2015]) and group A chosen. If Number of Slices in group A is higher than `MaxNumberOfSlices`, then the most important ones out of group A are chosen. If `MaxNumberOfSlices` is higher than Slices in group A, additional slices are shown depending on the percentage (from high to low).

Color sequence is automatically shortened to the `MaxNumberOfSlices` used in the fan plot.

## Value

silent output by calling `invisible` of a list with

<code>Percentages</code>	[1:k] percent values visualized in fanplot
<code>Labels</code>	[1:k] see input <code>Labels</code> , only relevant ones

## Author(s)

Michael Thrun

## References

- [Gohil, 2015] Gohil, Atmajitsinh. R data Visualization cookbook. Packt Publishing Ltd, 2015.
- [Ultsch/Lotsch, 2015] Ultsch. A., Lotsch J.: Computed ABC Analysis for Rational Selection of Most Informative Variables in Multivariate Data, PloS one, Vol. 10(6), pp. e0129767. doi 10.1371/journal.pone.0129767, 2015.

## Examples

```
data(categoricalVariable)
Fanplot(categoricalVariable)
```

---

**FundamentalData\_Q1\_2018**

*Fundamental Data of the 1st Quarter in 2018*

---

### Description

This dataset was extracted out of Yahoo finance and was investigated in [Thrun et al., 2019] and clustered in [Thrun, 2019].

### Usage

```
data("FundamentalData_Q1_2018")
```

### Format

The format is: List of 3 \$ Data :'data.frame': 269 obs. of 45 variables: ..\$ TotalRevenue : num [1:269] 3779000 78225 48220 63726 3084 ... ..\$ CostofRevenue : num [1:269] 2348000 60835 26174 35203 882 ... ..\$ GrossProfit : num [1:269] 1431000 17390 22046 28523 2202 ... ..\$ SellingGeneralandAdministrative : num [1:269] 459000 NaN 15162 17072 2005 ... ..\$ Others : num [1:269] -3000 10272 -52 3131 1784 ... ..\$ TotalOperatingExpenses : num [1:269] 2872000 73833 41284 56787 5081 ... ..\$ OperatingIncomeorLoss : num [1:269] 907000 4392 6936 6939 -1997 ... ..\$ TotalOtherIncomeDIVxpensesNet : num [1:269] -28000 -344 1 -210 -240 ... ..\$ EarningsBeforeInterestandTaxes : num [1:269] 907000 4392 6936 6939 -1997 ... ..\$ InterestExpense : num [1:269] -20000 -415 NaN -243 -238 ... ..\$ IncomeBeforeTax : num [1:269] 879000 4048 6937 6729 -2237 ... ..\$ IncomeTaxExpense : num [1:269] 233000 1365 2188 1896 7 ... ..\$ NetIncomeFromContinuingOps : num [1:269] 646000 2683 4749 4833 -2244 ... ..\$ NetIncome\_x : num [1:269] 644000 2817 4645 4833 -2244 ... ..\$ NetIncome : num [1:269] 644000 2817 4645 4833 -2244 ... ..\$ CashAndCashEquivalents : num [1:269] 926000 29047 45911 94859 11217 ... ..\$ NetReceivables : num [1:269] 2527000 46171 20774 151952 2774 ... ..\$ Inventory : num [1:269] 2011000 471 NaN 10572 8924 ... ..\$ TotalCurrentAssets : num [1:269] 5674000 80224 68061 267187 25989 ... ..\$ LongTermInvestments : num [1:269] 234000 450 NaN 4155 872 ... ..\$ PropertyPlantandEquipment : num [1:269] 4216000 14561 3093 32247 7073 ... ..\$ IntangibleAssets : num [1:269] 78000 40706 3975 6169 125 ... ..\$ OtherAssets : num [1:269] 810000 8224 1091 2978 13310 ... ..\$ DeferredLongTermAssetCharges : num [1:269] 759000 684 1091 784 1405 ... ..\$ TotalAssets : num [1:269] 11262000 167807 83155 351220 47369 ... ..\$ AccountsPayable : num [1:269] 1442000 10567 1698 17316 1386 ... ..\$ ShortDIVcurrentLongTermDebt : num [1:269] 1275000 30192 NaN 26668 917 ... ..\$ OtherCurrentLiabilities : num [1:269] 1064000 36942 22781 92297 2659 ... ..\$ TotalCurrentLiabilities : num [1:269] 2577000 54430 24479 114210 4299 ... ..\$ OtherLiabilities : num [1:269] 1795000 19435 6876 29347 2018 ... ..\$ TotalLiabilities : num [1:269] 5576000 97136 31355 165628 6980 ... ..\$ CommonStock : num [1:269] 198000 14946 5198 15250 28644 ... ..\$ RetainedEarnings : num [1:269] NaN 44030 34767 40374 -8965 ... ..\$ TreasuryStock : num [1:269] 5455000 11686 NaN 129968 20710 ... ..\$ OtherStockholderEquity : num [1:269] 5455000 11686 NaN 129968 20710 ... ..\$ TotalStockholderEquity : num [1:269] 5653000 70662 51212 185592 40389 ... ..\$ NetTangibleAssets : num [1:269] 5325000 6314 40302 140939 40264 ... ..\$ Depreciation : num [1:269] 156000 2728 331 1381 410 ... ..\$ AdjustmentsToNetIncome : num [1:269] 216000 1911 116 2912 39 ... ..\$ ChangesInOtherOperatingActivities : num [1:269] -20000 -2174 -829 NaN 428 ... ..\$ TotalCashFlowFromOperatingActivities : num [1:269]

```
452000 7349 4274 -8241 -1367 ... ...$ CapitalExpenditures : num [1:269] -88000 -966 -1778 -2067
-155 ... ...$ TotalCashFlowsFromInvestingActivities: num [1:269] 30000 -879 -1766 -2746 -484 ...
...$ TotalCashFlowsFromFinancingActivities: num [1:269] -789000 -6660 -21867 -961 -204 ... ...$ ChangeInCashandCashEquivalents : num [1:269] -306000 -215 2508 -11842 -2062 ... $ Names:
chr [1:269, 1:6] "1COV" "A1OS" "AAD" "AAG" ... ..- attr(*, "dimnames")=List of 2 ... ...$ : NULL
... ...$ : chr [1:6] "Key" "ISIN" "Company" "Sector" ... $ Cls : num [1:269] 1 1 1 1 2 1 1 1 3 1 ...
```

## Details

Stocks are selected by the German Prime standard accordingly to the "Names" data frame. Fundamental Data with missing values is stored in "Data". The rownames of "Data" have the same Key as the first row of "Names" which is the trading symbol. "Cls" provides the clustering as a numerical vector of 1:k classes performed by Databionic Swarm in [Thrun, 2019].

## Source

Yahoo finance

## References

Thrun, M. C., : Knowledge Discovery in Quarterly Financial Data of Stocks Based on the Prime Standard using a Hybrid of a Swarm with SOM, in Verleysen, M. (Ed.), European Symposium on Artificial Neural Networks, Computational Intelligence and Machine Learning (ESANN), Vol. 27, pp. 397-402, Ciaco, ISBN: 978-287-587-065-0, Bruges, Belgium, 2019.  
[Thrun et al., 2019] Thrun, M. C., Gehlert, Tino, & Ultsch, A. : Analyzing the Fine Structure of Distributions, arXiv:1908.06081, 2019.

## Examples

```
data(FundamentalData_Q1_2018)
## maybe str(FundamentalData_Q1_2018) ; plot(FundamentalData_Q1_2018) ...
```

GoogleMapsCoordinates *Google Maps with marked coordinates*

## Description

Google Maps with marked coordinates.

## Usage

```
GoogleMapsCoordinates(Longitude, Latitude, Cls=rep(1, length(Longitude)),
zoom=3, location= c(mean(Longitude), mean(Latitude)), stroke=1.7, size=6, sequence)
```

## Arguments

Longitude	sphaerischer winkel der Kugeloberflaeche, coord 1
Latitude	sphaerischer winkel der Kugeloberflaeche, coord 2
Clss	Vorklassification/Clusterung
zoom	map zoom, an integer from 3 (continent) to 21 (building), default value 10 (city). openstreetmaps limits a zoom of 18, and the limit on stamen maps depends on the maptype. "auto" automatically determines the zoom for bounding box specifications, and is defaulted to 10 with center/zoom specifications. maps of the whole world currently not supported
location	Optional, default: c(mean(Longitude),mean(Latitude)); an address, longitude/latitude pair (in that order), or left/bottom/right/top bounding box
stroke	Optional, plotting parameter, dicke der linien der koordinatensymbole
size	Optional, plotting parameter, groesse der koordinatensymbole
sequence	Optional, vector of length of number of clusters with numbers indicating the plotting symbols and colors to use

## Details

This plot was used in [Thrun, 2018, p. 135].

## Value

ggobject()

## Note

requires an Internet connection, requires an API key of Google. See `?ggmap::register_google` for details.

## Author(s)

Michael Thrun

## References

[Thrun, 2018] Thrun, M. C.: Projection Based Clustering through Self-Organization and Swarm Intelligence, doctoral dissertation 2017, Springer, ISBN: 978-3-658-20539-3, Heidelberg, 2018.

---

Heatmap*Heatmap for Clustering*

---

**Description**

Heatmap of Distances of Data sorted by Cls. Clustering algorithms provide a Classification of data, where the labels are defined as a numeric vector Cls. Then, a typical cluster-respectively group structure is displayed by the Heatmap function. At the margin of the heatmap a dendrogram can be shown, if hierarchical cluster algorithms are used [Wilkinson,2009]. Here the dendrogram has to be shown separately and only the heatmap itself is displayed

**Usage**

```
Heatmap(DataOrDistances,Cls,method='euclidean',
LowLim=0,HiLim,LineWidth=0.5,Clabel="Cluster No.")
```

**Arguments****DataOrDistances**

if not symmetric, then the function assumes a [1:n,1:d] numeric matrix of n data cases in rows and d variables in columns. In this case, the distance metric specified in method will be used.

Otherwise,

[1:n,1:n] distance matrix that is symmetric

**Cls**

[1:n] numerical vector of numbers defining the classification as the main output of the clustering algorithm. It has k unique numbers for k clusters that represent the arbitrary labels of the clustering, assuming a descending order of 1 to k. If not ordered please use [ClusterRenameDescendingSize](#). Otherwise x and y label will be incorrect.

**method**

Optional, if DataOrDistances is a [1:n,1:d] not symmetric numerical matrix, please see [parDist](#) for accessible distance methods, default is Euclidean

**LowLim**

Optional: limits for the color axis

**HiLim**

Optional: limits for the color axis

**LineWidth**

Width of lines separating the clusters in the heatmap

**Clabel**

Default "Cluster No.", for large number of clusters abbreviations can be used like "Cls No." or "C" in order to fit as the x and y axis labels

**Details**

"Cluster heatmaps are commonly used in biology and related fields to reveal hierarchical clusters in data matrices. Heatmaps visualize a data matrix by drawing a rectangular grid corresponding to rows and columns in the matrix and coloring the cells by their values in the data matrix. In their most basic form, heatmaps have been used for over a century [Wilkinson, 2012]. In addition to coloring cells, cluster heatmaps reorder the rows and/or columns of the matrix based on the results

of hierarchical clustering. (...) . Cluster heatmaps have high data density, allowing them to compact large amounts of information into a small space [Weinstein, 2008]", [Engle, 2017].

The procedure can be adapted to distance matrices [Thrun, 2018]. Then, the color scale is chosen such that pixels of low distances have blue and teal colors, pixels of middle distances yellow colors, and pixels of high distances have orange and red colors [Thrun, 2018]. The distances are ordered by the clustering and the clusters are divided by black lines. A clustering is valid if the intra-cluster distances are distinctively smaller than inter-cluster distances in the heatmap [Thrun, 2018]. For another example, please see [Thrun, 2018] (Fig. 3.7, p. 31).

### Value

object of ggplot2

### Author(s)

Michael Thrun

### References

- [Wilkinson,2009] Wilkinson, L., & Friendly, M.: The history of the cluster heat map, *The American Statistician*, Vol. 63(2), pp. 179-184. 2009.
- [Engle et al., 2017] Engle, S., Whalen, S., Joshi, A., & Pollard, K. S.: Unboxing cluster heatmaps, *BMC bioinformatics*, Vol. 18(2), pp. 63. 2017.
- [Weinstein, 2008] Weinstein, J. N.: A postgenomic visual icon, *Science*, Vol. 319(5871), pp. 1772-1773. 2008.
- [Thrun, 2018] Thrun, M. C.: Projection Based Clustering through Self-Organization and Swarm Intelligence, doctoral dissertation 2017, Springer, Heidelberg, ISBN: 978-3-658-20539-3, <https://doi.org/10.1007/978-3-658-20540-9>, 2018.

### See Also

[Pixelmatrix](#)

### Examples

```
data("Lsun3D")
Cls=Lsun3D$Cls
Data=Lsun3D$data

#Data
Heatmap(Data,Cls = Cls)

#Distances
Heatmap(as.matrix(dist(Data)),Cls = Cls)
```

---

HeatmapColors	<i>Default color sequence for plots</i>
---------------	---

---

**Description**

Defines the default color sequence for plots made with PixelMatrixPlot

**Usage**

```
data("HeatmapColors")
```

**Format**

A vector with different strings describing colors for this plot.

---

inPSphere2D	<i>2D data points in Pareto Sphere</i>
-------------	--

---

**Description**

This function determines the 2D data points inside a ParetoSphere with ParetoRadius.

**Usage**

```
inPSphere2D(data, paretoRadius=NULL)
```

**Arguments**

- |              |   |
|--------------|---|
| data         | numeric matrix of data.   |
| paretoRadius | numeric value. radius of P-spheres. If not given, calculate by the function 'paretoRad' |

**Value**

numeric vector with the number of data points inside a P-sphere with ParetoRadius.

**Author(s)**

Felix Pape

**InspectBoxplots***Inspect Boxplots***Description**

Enables to inspect the boxplots for multiple variables in ggplot2 syntax. Each boxplot also has a point for the mean of the variable.

**Usage**

```
InspectBoxplots(Data, Names, Means=TRUE)
```

**Arguments**

Data	Matrix containing the data. Each column is one variable.
Names	Optional: Names of the variables. If missing the columnnames of data are used.
Means	Optional: TRUE: with mean, FALSE: Only median.

**Value**

The ggplot object of the boxplots

**Author(s)**

Felix Pape

**Examples**

```
x <- cbind(A = rnorm(200, 1, 3), B = rnorm(100, -2, 5))
InspectBoxplots(x)
```

**InspectCorrelation***Inspect the Correlation***Description**

Inspects the correlation between two given features using density scatter plots.

**Usage**

```
InspectCorrelation(x, y, DensityEstimation = "SDH",
CorMethod = "spearman", na.rm = TRUE,
SampleSize = round(sqrt(5e+08), -3),
NrOfContourLines = 20, Plotter = "native",
DrawTopView = T, xlab = "X", ylab = "Y",
main = "Spearman correlation coef.:", xlim, ylim,
Legendlab_ggplot = "value", ...)
```

**Arguments**

<code>x</code>	Numeric vector [1:n], first feature (for x axis values)
<code>y</code>	Numeric vector [1:n], second feature (for y axis values)
<code>DensityEstimation</code>	"SDH" is very fast but maybe not correct, "PDE" is slow but probably more correct.
<code>CorMethod</code>	method of correlation of the cor function, One of "pearson" (default), "kendall", or "spearman"
<code>SampleSize</code>	Numeric, positive scalar, maximum size of the sample used for calculation. High values increase runtime significantly. The default is that no sample is drawn
<code>na.rm</code>	Function may not work with non finite values. If these cases should be automatically removed, set parameter TRUE
<code>NrOfContourLines</code>	Numeric, number of contour lines to be drawn. 20 by default.
<code>Plotter</code>	String, name of the plotting backend to use. Possible values are: "native", "ggplot", "plotly"
<code>DrawTopView</code>	Boolean, True means contour is drawn, otherwise a 3D plot is drawn. Default: TRUE
<code>xlab</code>	String, title of the x axis. Default: "X", see <code>plot()</code> function
<code>ylab</code>	String, title of the y axis. Default: "Y", see <code>plot()</code> function
<code>main</code>	string, the same as "main" in <code>plot()</code> function
<code>xlim</code>	see <code>plot()</code> function
<code>ylim</code>	see <code>plot()</code> function
<code>Legendlab_ggplot</code>	String, in case of <code>Plotter="ggplot"</code> label for the legend. Default: "value"
<code>...</code>	Density specific parameters, for <code>PDEscatter()</code> or <code>SDH</code> ( <code>nbins,lambda,Xkernels,Ykernel</code> )

**Details**

Example shows that features with high correlation coefficient do not correlate because of bimodality.

**Value**

plotting handler

**Author(s)**

Michael Thrun

**References**

[Thrun/Ultsch, 2018] Thrun, M. C., & Ultsch, A. : Effects of the payout system of income taxes to municipalities in Germany, in Papiez, M. & Smiech, S. (eds.), Proc. 12th Professor Aleksander Zelias International Conference on Modelling and Forecasting of Socio-Economic Phenomena, pp. 533-542, Cracow: Foundation of the Cracow University of Economics, Cracow, Poland, 2018.

**See Also**

[DensityScatter](#)

**Examples**

```
data(ITS)
data(MTY)
Inds=which(ITS<900&MTY<8000)

InspectCorrelation(ITS[Inds],MTY[Inds])
```

**Description**

Visualizes the distances between objects in the data matrix

**Usage**

```
InspectDistances(DataOrDistances,method= "euclidean",sampleSize = 50000,...)
```

## Arguments

DataOrDistances	[1:n,1:d] data cases in rows, variables in columns, if not symmetric or [1:n,1:n] distance matrix, if symmetric
method	Optional, if Data[1:n,1:d] see parallelDist::parDist for distance method
sampleSize	double value defining the size of the sample for large distance matrices, see InspectVariable
...	further arguments passed on to InspectVariable

## Details

For an interpretation of the distribution analysis of the distance please read [Thrun, 2018, p. 27, 185].

## Note

uses InspectVariable

## Author(s)

Michael Thrun

## References

[Thrun, 2018] Thrun, M. C.: Projection Based Clustering through Self-Organization and Swarm Intelligence, doctoral dissertation 2017, Springer, ISBN: 978-3-658-20539-3, Heidelberg, 2018.

## Examples

```
data("Lsun3D")
Data=Lsun3D$Data

InspectDistances(as.matrix(dist(Data)))
```

InspectScatterplots    *Pairwise scatterplots and optimal histograms*

## Description

Pairwise scatterplots and optimal histograms of all features stored as columns of data are plotted

## Usage

```
InspectScatterplots(Data,Names=colnames(Data))
```

**Arguments**

Data	[1:n,1:d] Data cases in rows (n), variables in columns (d)
Names	Optional: Names of the variables. If missing the columnnames of data are used.

**Details**

For two features, PDEscatter function should be used to inspect modalities [Thrun/Ultsch, 2018]. For many features the function takes too long. In such a case this function can be used. See [Thrun/Ultsch, 2018] for optimal histogram description.

**Author(s)**

Michael Thrun

**References**

[Thrun/Ultsch, 2018] Thrun, M. C., & Ultsch, A.: Effects of the payout system of income taxes to municipalities in Germany, 12th Professor Aleksander Zelias International Conference on Modelling and Forecasting of Socio-Economic Phenomena, Vol. accepted, Foundation of the Cracow University of Economics, Zakopane, Poland, 2018.

**Examples**

```
Data=cbind(rnorm(100, mean = 2, sd = 3 ), rnorm(100,mean = 0, sd = 1),rnorm(100,mean = 6, sd = 0.5))
#InspectScatterplots(Data)
```

**InspectStandardization**

*QQplot of Data versus Normalized Data*

**Description**

Allows to inspect if standardization of data makes sense

**Usage**

```
InspectStandardization(Data, TransData, xug = -3, xog = 3, xlab = "Normal", yDataLab =
"Data", yTransDataLab = "Trasformed Data", Symbol4Gerade = "red", main = "", ...)
```

**Arguments**

Data	...
TransData	...
xug	...
xog	...

```
xlab      ...
yDataLab ...
yTransDataLab ...
Symbol4Gerade ...
main      ...
...       ...
```

## Details

...

## Value

plot

## Author(s)

Michael Thrun

## References

Michael, J. R.: The stabilized probability plot, Biometrika, Vol. 70(1), pp. 11-17, 1983.

---

InspectVariable      *Visualization of Distribution of one variable*

---

## Description

Enables distribution inspection by visualization as described in [Thrun, 2018] and for example used in

## Usage

```
InspectVariable(Feature, N = "Feature", i = 1, xlim, ylim,
                sampleSize =1e+05, main)
```

## Arguments

Feature	[1:n] Variable/Vector of Data to be plotted
N	Optional, string, for x label
i	Optional, No. of variable/feature, an integer of the for loop
xlim	[2] Optional, range of x-axis for PDEplot
ylim	[2] Optional, range of y-axis for PDEplot
sampleSize	Optional, default(100000), sample size, if datavector is to big
main	string for the title if other than what is described in N

### **Author(s)**

Michael Thrun

### **References**

- [Thrun, 2018] Thrun, M. C.: Projection Based Clustering through Self-Organization and Swarm Intelligence, doctoral dissertation 2017, Springer, ISBN: 978-3-658-20539-3, Heidelberg, 2018.
- [Thrun/Ultsch, 2018] Thrun, M. C., & Ultsch, A. : Effects of the payout system of income taxes to municipalities in Germany, in Papiez, M. & Smiech, S. (eds.), Proc. 12th Professor Aleksander Zelias International Conference on Modelling and Forecasting of Socio-Economic Phenomena, pp. 533-542, Cracow: Foundation of the Cracow University of Economics, Cracow, Poland, 2018.

### **Examples**

```
data("ITS")
InspectVariable(ITS,N='Income in EUR',main='ITS')
```

---

ITS	<i>Income Tax Share</i>
-----	-------------------------

---

### **Description**

Numerical vector of length 11194. details in [Ultsch/Behnisch, 2017; Thrun/Ultsch, 2018].

### **Usage**

```
data("ITS")
```

### **References**

- [Thrun/Ultsch, 2018] Thrun, M. C., & Ultsch, A. : Effects of the payout system of income taxes to municipalities in Germany, in Papiez, M. & Smiech, S. (eds.), Proc. 12th Professor Aleksander Zelias International Conference on Modelling and Forecasting of Socio-Economic Phenomena, pp. 533-542, Cracow: Foundation of the Cracow University of Economics, Cracow, Poland, 2018.
- [Ultsch/Behnisch, 2017] Ultsch, A., Behnisch, M.: Effects of the payout system of income taxes to municipalities in Germany, Applied Geography, Vol. 81, pp. 21-31, 2017.

### **Examples**

```
data(ITS)
str(ITS)
```

---

**JitterUniqueValues**      *Jitters Unique Values*

---

**Description**

Jitters Unique Values for Visualizations

**Usage**

```
JitterUniqueValues(Data, Npoints = 20,  
min = 0.99999, max = 1.00001)
```

**Arguments**

Data	[1:n] vector of data
Npoints	number of jittered points generated from the m unique values of the datavector Data
min	minimum value of jittering
max	maximum value of jittering

**Details**

min and max are either multiplied or added to data depending on the range of values. If Npoints==2, then only two values per unique of Data is jittered otherwise additional values are generated. Npoints==1 does not jitter the values but gives the unique values back.

**Value**

vector of DataJitter[1:(m+Npoints-1)] jittered values

**Author(s)**

Michael Thrun

**See Also**

used for example in [MDplot](#)

**Examples**

```
data=c(rep(1,10),rep(0,10),rep(100,10))  
  
JitterUniqueValues(data,Npoints=1)  
  
JitterUniqueValues(data,Npoints=2)  
  
DataJitter=JitterUniqueValues(data,Npoints=20)
```

Lsun3D

*Lsun3D inspired by FCPS***Description**

clearly defined clusters, different variances

**Usage**

```
data("Lsun3D")
```

**Details**

Size n=404, Dimensions d=3

Dataset defined discontinuities, where the clusters have different variances. Three main Clusters, and four Outliers (in Cluster 4), see [Thrun, 2018]

**References**

[Thrun, 2018] Thrun, M. C.: Projection Based Clustering through Self-Organization and Swarm Intelligence, doctoral dissertation 2017, Springer, ISBN: 978-3-658-20540-9, Heidelberg, 2018.

**Examples**

```
data(Lsun3D)
str(Lsun3D)
Cls=Lsun3D$Cls
Data=Lsun3D>Data
```

MAplot

*Minus versus Add plot***Description**

Bland-Altman plot [Altman/Bland, 1983].

**Usage**

```
MAplot(x,y,islog=TRUE,densityplot=FALSE,
main='MA-plot',xlab,ylab,Cls)
```

## Arguments

x	[1:n] numerical vector of a feature/variable
y	[1:n] another numerical vector of a feature/variable
islog	TRUE: MAplot, FALSE: M=x-y versus a=0.5(x+y)
densityplot	FALSE: Scatterplot, TRUE: density scatter plot with PDE
main	see plot
xlab	see plot
ylab	see plot
cls	prior Classification as a numeric vector.

## Details

Bland-Altman plot [Altman/Bland, 1983] for visual representation of genomic data or in order to decorrelate data.

## Value

MA	[1:n,2] Matrix of Minus component of two features and Add component of two features
ggplot	see ggplot2 output, if densityplot=TRUE, else NULL

## Author(s)

Michael Thrun

## References

[Altman/Bland, 1983] Altman D.G., Bland J.M.: Measurement in medicine: the analysis of method comparison studies, The Statistician, Vol. 32, p. 307-317, doi:10.2307/2987937, 1983.

[Ultsch, 2005] Ultsch, A.: Pareto Density Estimation: A Density Estimation for Knowledge Discovery, Baier D., Wernecke K.D. (Eds), In Innovations in Classification, Data Science, and Information Systems - Proceedings 27th Annual Conference of the German Classification Society (GfKL) 2003, Berlin, Heidelberg, Springer, pp, 91-100, 2005.

## Examples

```
#taken from [Thrun/Ultsch, 2018]
data("ITS")
data("MTY")
MAlist=MAplot(ITS,MTY)
```

---

MDplot*Mirrored Density plot (MD-plot)*

---

## Description

This function creates a MD-plot for each variable of the data matrix. The MD-plot is a visualization for a boxplot-like Shape of the PDF published in [Thrun et al., 2019]. It is an improvement of violin or so-called bean plots and posses advantages in comparison to the conventional well-known box plot [Thrun et al., 2019].

A complete guide about the MDplot can be found in <https://md-plot.readthedocs.io/en/latest/index.html>.

## Usage

```
MDplot(Data, Names, Ordering='Default', Scaling="None",
       Fill='darkblue', RobustGaussian=TRUE, GaussianColor='magenta',
       Gaussian_lwd=1.5, BoxPlot=FALSE, BoxColor='darkred',
       MDscaling='width', LineColor='black', LineSize=0.01,
       QuantityThreshold=50, UniqueValuesThreshold=12,
       SampleSize=5e+05, SizeOfJitteredPoints=1, OnlyPlotOutput=TRUE)
```

## Arguments

Data	[1:n,1:d] Numerical Matrix containing the n cases of d variables. Each column is one variable. A data.frame is automatically transformed to a numerical matrix.
Names	Optional: [1:d] Names of the variables. If missing, the columnnames of data are used.
Ordering	Optional: string, either Default, Columnwise, Alphabetical, Average, Bimodal, Variance or Statistics. Please see details for explanation.
Scaling	Optional, Default is None, Percentalize, CompleteRobust, Robust or Log, Please see details for explanation.
Fill	Optional: string, color with which MDs are to be filled with.
RobustGaussian	Optional: If TRUE: each MDplot of a variable is overlayed with a robustly estimated unimodal Gaussian distribution in the range of this variable, if statistical testing does not yield a significant p.value. In this case the packages <b>moments</b> , <b>dipstest</b> and <b>signal</b> are required.
GaussianColor	Optional: string, color of robustly estimated gaussian, only for RobustGaussian=TRUE.
Gaussian_lwd	Optional: numerical, line width of robustly estimated gaussian, only for RobustGaussian=TRUE.
BoxPlot	Optional: If TRUE: each MDplot is overlayed with a Box-Whisker Diagram.

BoxColor	Optional: string, color of Boxplot, only for BoxPlot=TRUE.
MDscaling	Optional: if "area", all violins have the same area (before trimming the tails). If "count", areas are scaled proportionally to the number of observations. If "width" (default), all MDs have the same maximum width.
LineColor	Optional: string, color of line around the mirrored densities. NA disables this features which is usefull if ones wants to avoid vertical lines leading to outliers.
LineSize	Optional: numerical, linewidth of line around the mirrored densities.
QuantityThreshold	Optional: numeric value defining the threshold of the minimal amount of values in data. Below this threshold no density estimation is performed and a 1D scatter plot with jittered points is drawn. Only Data Science experts should change this value after they understand how the density is estimated (see [Ultsch, 2005]).
UniqueValuesThreshold	Optional: numeric value defining the threshold of the minimal amount of unique values in data. Below this threshold no density estimation and statistical testing is performed and a 1D scatter plot with jittered points drawn. Only Data Science experts should change this value after they understand how the density is estimated (see [Ultsch, 2005]).
SampleSize	Optional: numeric value defining a threshold. Above this threshold uniform sampling of finite cases is performed in order to shorten computation time. If <b>rowr</b> is not installed, uniform sampling of all cases is performed. If required, SampleSize=n can be set to omit this procedure.
SizeOfJitteredPoints	Optional: scalar. If not enough unique values for density estimation are given, data points are jittered. This parameter defines the size of the points.
OnlyPlotOutput	Optional: Default TRUE only a ggplot object is given back, if FALSE: Additionally, scaled data and ordering are the output of this function in a list.

## Details

In short, the MD-plot can be described as a PDE optimized violin plot. The Pareto Density Estimation (PDE) is an approach to estimate the probability density function (pdf) [Ultsch, 2005].

The MD-plot is in the process of being peer-reviewed [Thrun/Ultsch, 2019].

Statistical testing is performed with [dip.test](#) and [agostino.test](#).

For the parameter Ordering the following options are possible:

**Default** Ordering of plots by convex/concav/unimodal/nonunimodal shapes. In this case the **signal** is required.

**Columnwise** Ordering of plots by the order of columns of Data.

**Alphabetical** Ordering of plots by the order of columns of Data sorted in alphabetical order by column names.

**Average** Ordering of plots by the order of columns of Data sorted in order of increasing columnwise average

**Bimodal** Ordering of plots by the order of columns of Data sorted in order of decreasing bimodality amplitude[Zhang et al., 2003]

**Variance** Ordering of plots by the order of columns of Data sorted in order of increasing interquartile range

**Statistics** Ordering of plots depending on the logarithm of the p-values of statistical testing. In this case the packages **moments**, **dipstest** and **signal** are required.

For the parameter Scaling the following options are possible:

**None** No Scaling of data is done.

**Percentalize** Data is scaled between zero and 100.

**CompleteRobust** Data is first robustly scaled between zero and 1, then centered to zero and outliers are capped by a robustly formula described in the **DatabionicSwarm** package.

**Robust** Data is robustly scaled between zero and 1 by a formula described in the **DatabionicSwarm** package.

**Log** Data is transformed with a signed log allowing for negative values to be transformed with a logarithm of base 10, please see **SignedLog** for details.

## Value

In the default case of `OnlyPlotOutput==TRUE`: The `ggplot` object of the MD-plot.

Otherwise for `OnlyPlotOutput==FALSE`: A list of

`ggplotObj` The `ggplot` object of the MD-plot.

`Ordering` The ordering of columns of data defined by `Ordering`.

`DataOrdered` `[1:n,1:d]` matrix of ordered and scaled data defined by `Ordering` and `Scaling`.

Note that the package **ggExtra** is not necessarily required but if given the feature names are automatically rotated.

## Note

1.) One would assume that in the first of the two following cases `ggplot` only adjusts the plotting region but:

`MDplot(MTY)+ylim(c(0,7000))` is equal to `MDplot(MTY[MTY<7000])`.

This means in both cases the data is clipped and AFTERWARDS the density estimation is performed.

2.) Because of a (sometimes) strange behavior of either `ggplot2` or `reshape2`, numerical column names are changed to character by adding '`C_`'.

3.) Overlaying MD-plots with robustly estimated gaussians seldomly will yield magenta (or other `GaussianColor`) lines overlaying more than the violin plot they should overlay, because the width of the two plots is not the same (but I am unable to set it strictly in `ggplot`). In such a case just call the function again.

## Author(s)

Michael Thrun, Felix Pape contributed with the idea to use `ggplot2` as the basic framework.

## References

- [Ultsch, 2005] Ultsch, A.: Pareto density estimation: A density estimation for knowledge discovery, in Baier, D.; Wermuth, K. D., (Eds), Innovations in classification, data science, and information systems, Proc Gfkl 2003, pp 91-100, Springer, Berlin, 2005.
- [Thrun et al., 2019] Thrun, M. C., Gehlert, Tino, & Ultsch, A. : Analyzing the Fine Structure of Distributions, arXiv:1908.06081, 2019.
- [Zhang et al., 2003] Zhang, C., Mapes, B., & Soden, B.: Bimodality in tropical water vapour, Quarterly Journal of the Royal Meteorological Society, 129(594), 2847-2866, 2003.

## See Also

<https://md-plot.readthedocs.io/en/latest/index.html>  
[ClassMDplot](#)  
<https://pypi.org/project/md-plot/>

## Examples

```
x = cbind(
  A = runif(20000, 1, 5),
  B = c(rnorm(10000, 0, 1), rnorm(10000, 2.6, 1)),
  C = c(rnorm(20000, 2.5, 1)),
  D = rpois(20000, 5)
)
MDplot(x)
```

MDplot4multiplevectors

*Mirrored Density plot (MD-plot)for Multiple Vectors*

## Description

This function creates a MD-plot for multiple numerical vectors of various lengths. The MD-plot is a visualization for a boxplot-like Shape of the PDF published in [Thrun et al., 2019]. It is an improvement of violin or so-called bean plots and posses advantages in comparison to the conventional well-known box plot [Thrun et al., 2019].

## Usage

```
MDplot4multiplevectors(..., Names, Ordering = 'Default',
Scaling = "None", Fill = 'darkblue', RobustGaussian = TRUE,
GaussianColor = 'magenta', Gaussian_lwd = 1.5, BoxPlot = FALSE,
```

```
BoxColor = 'darkred', MDscaling = 'width', LineSize = 0.01,
LineColor = 'black', QuantityThreshold = 40, UniqueValuesThreshold = 12,
SampleSize = 5e+05, SizeOfJitteredPoints = 1, OnlyPlotOutput = TRUE)
```

## Arguments

...	Either d numerical vectors of different lengths or a list of length d where each element of the list is an vector of arbitrary length
Names	Optional: [1:d] Names of the variables. If missing, the columnnames of data are used.
Ordering	Optional: string, either Default, Columnwise, Alphabetical or Statistics. Please see details for explanation.
Scaling	Optional, Default is None, Percentalize, CompleteRobust, Robust or Log. Please see details for explanation.
Fill	Optional: string, color with which MDs are to be filled with.
RobustGaussian	Optional: If TRUE: each MDplot of a variable is overlayed with a roubustly estimated unimodal Gaussian distribution in the range of this variable, if statistical testing does not yield a significant p.value. In this case the packages <b>moments</b> , <b>diptest</b> and <b>signal</b> are required.
GaussianColor	Optional: string, color of robustly estimated gaussian, only for RobustGaussian=TRUE.
Gaussian_lwd	Optional: numerical, line width of robustly estimated gaussian, only for RobustGaussian=TRUE.
BoxPlot	Optional: If TRUE: each MDplot is overlayed with a Box-Whisker Diagram.
BoxColor	Optional: string, color of Boxplot, only for BoxPlot=TRUE.
MDscaling	Optional: if "area", all violins have the same area (before trimming the tails). If "count", areas are scaled proportionally to the number of observations. If "width" (default), all MDs have the same maximum width.
LineSize	Optional: numerical, linewidth of line around the mirrored densities.
LineColor	Optional: string, color of line around the mirrored densities. NA disables this features which is usefull if ones wants to avoid vertical lines leading to outliers.
QuantityThreshold	Optional: numeric value defining a threshold. Below this threshold no density estimation is performed and a jitter plot with a median line is drawn. Only Data Science experts should change this value after they understand how the density is estimated (see [Ultsch, 2005]).
UniqueValuesThreshold	Optional: numeric value defining a threshold. Below this threshold no density estimation and statistical testing is performed and a Jitter plot is drawn. Only Data Science experts should change this value after they understand how the density is estimated (see [Ultsch, 2005]).
SampleSize	Optional: numeric value defining a threshold. Above this threshold uniform sampling of finite cases is performed in order to shorten computation time. If <b>rowr</b> is not installed, uniform sampling of all cases is performed. If required, SampleSize=n can be set to omit this procedure.

**SizeOfJitteredPoints**

Optional: scalar. If Not enough unique values for density estimation are given, data points are jittered. This parameter defines the size of the points.

**OnlyPlotOutput** Optional: Default TRUE only a ggplot object is given back, if FALSE: Additionally Scaled Data and ordering are the output of this function in a list.

**Details**

Please see [MDplot](#) for details.

**Value**

In the default case of `OnlyPlotOutput==TRUE`: The ggplot object of the MD-plot.

Otherwise for `OnlyPlotOutput==FALSE`: A list of

`ggplotObj` The ggplot object of the MD-plot.

`Ordering` The ordering of columns of data defined by `Ordering`.

`DataOrdered` [1:n,1:d] matrix of ordered and scaled data defined by `Ordering` and `Scaling`.

Note that the package **ggExtra** is not necessarily required but if given the feauture names are automatically rotated.

**Note**

`cbind.fill` is internally used from the depricated R package `rowr` of Craig Varrichio.

**Author(s)**

Michael Thrun.

**References**

[Ultsch, 2005] Ultsch, A.: Pareto density estimation: A density estimation for knowledge discovery, in Baier, D.; Werrnecke, K. D., (Eds), Innovations in classification, data science, and information systems, Proc Gfkl 2003, pp 91-100, Springer, Berlin, 2005.

[Thrun et al., 2019] Thrun, M. C., Gehlert, Tino, & Ultsch, A. : Analyzing the Fine Structure of Distributions, arXiv:1908.06081, 2019.

**See Also**

[ClassMDplot](#) [MDplot](#) <https://pypi.org/project/md-plot/>

**Examples**

```
MDplot4multiplevectors(runif(20000, 1, 5),c(rnorm(20000,0,1),
rnorm(20000,2.6,1)),c(rnorm(2000,2.5,1)),rpois(25000,5),
```

```

Names=c('A','B','C','D'))

V=list(runif(20000, 1, 5),c(rnorm(20000,0,1),
rnorm(20000,2.6,1)),c(rnorm(2000,2.5,1)),rpois(25000,5))

MDplot4multiplevectors(V,Names=c('A','B','C','D'))

```

---

MTY

*Municipal Income Tax Yield***Description**

Numerical vector of length 11194. details in [Ultsch/Behnisch, 2017; Thrun/Ultsch, 2018].

**Usage**

```
data("MTY")
```

**References**

[Thrun/Ultsch, 2018] Thrun, M. C., & Ultsch, A. : Effects of the payout system of income taxes to municipalities in Germany, in Papiez, M. & Smiech, S. (eds.), Proc. 12th Professor Aleksander Zelias International Conference on Modelling and Forecasting of Socio-Economic Phenomena, pp. 533-542, Cracow: Foundation of the Cracow University of Economics, Cracow, Poland, 2018.

[Ultsch/Behnisch, 2017] Ultsch, A., Behnisch, M.: Effects of the payout system of income taxes to municipalities in Germany, Applied Geography, Vol. 81, pp. 21-31, 2017.

**Examples**

```

data(MTY)
str(MTY)

```

OptimalNoBins

*Optimal Number Of Bins***Description**

Optimal Number Of Bins is a kernel density estimation for fixed intervals.

Calculation of the optimal number of bins for a histogram.

**Usage**

```
OptimalNoBins(Data)
```

**Arguments**

Data	Data
------	------

**Details**

The bin width ist defined with  $bw=3.49*\text{stdrobust}(1/(n))^{1/3}$

**Value**

optNrOfBins The best possible number of bins. Not less than 10 though

**Note**

This the second version of the function prior available in **AdaptGauss**

**Author(s)**

Alfred Ultsch, Michael Thrun

**References**

David W. Scott Jerome P. Keating: A Primer on Density Estimation for the Great Home Run Race of 98, STATS 25, 1999, pp 16-22.

**See Also**

ParetoRadius

**Examples**

```
Data = c(rnorm(1000),rnorm(2000)+2,rnorm(1000)*2-1)

optNrOfBins = OptimalNoBins(Data)

minData = min(Data,na.rm = TRUE)

maxData = max(Data,na.rm = TRUE)

i = maxData-minData

optBreaks = seq(minData, maxData, i/optNrOfBins) # bins in fixed intervals

hist(Data, breaks=optBreaks)
```

**ParetoDensityEstimation***Pareto Density EstimationV2***Description**

This function estimates the Pareto Density for the distribution of one variable.

**Usage**

```
ParetoDensityEstimation(Data, paretoRadius, kernels = NULL,
MinAnzKernels = 100,PlotIt=FALSE)
```

**Arguments**

<b>Data</b>	numeric vector of data.
<b>paretoRadius</b>	Optional, numeric value, see <a href="#">ParetoRadius</a> , Please do not set manually
<b>kernels</b>	Optional, numeric vector. data values where pareto density is measured at. If 0 (by default) kernels will be computed.
<b>MinAnzKernels</b>	Optional, minimal number of kernels, default MinAnzKernels==100
<b>PlotIt</b>	Optional, if TRUE: raw basic r plot of density estimation of debugging purposes. Usually please use <b>ggplot2</b> interface via <a href="#">PDEplot</a> or <a href="#">MDplot</a>

**Details**

Pareto Density Estimation (PDE) is a method for the estimation of probability density functions using hyperspheres. The Pareto-radius of the hyperspheres is derived from the optimization of information for minimal set size. It is shown, that Pareto Density is the best estimate for clusters of Gaussian structure. The method is shown to be robust when cluster overlap and when the variances differ across clusters. This is the best density estimation to judge Gaussian Mixtures of the data see [Ultsch 2003]

**Value**

List With

**kernels** numeric vector. data values at with Pareto Density is measured.

**paretoDensity** numeric vector containing the determined density by ParetoRadius.

**paretoRadius** numeric value of defining the radius

**Note**

This the second version of the function prior available in **AdaptGauss**

**Author(s)**

Michael Thrun

## References

Ultsch, A.: Pareto density estimation: A density estimation for knowledge discovery, in Baier, D.; Wermuth, K. D., (Eds), Innovations in classification, data science, and information systems, Proc Gfkl 2003, pp 91-100, Springer, Berlin, 2005.

## See Also

[ParetoRadius](#)

[PDEplot](#)

[MDplot](#)

## Examples

```
data = c(rnorm(1000), rnorm(2000)+2, rnorm(1000)*2-1)
pdeVal      <- ParetoDensityEstimation(data)
plot(pdeVal$kernel, pdeVal$paretoDensity, type='l', xaxs='i',
     yaxs='i', xlab='Data', ylab='PDE')
```

ParetoRadius

*ParetoRadius for distributions*

## Description

Calculation of the ParetoRadius i.e. the 18 percentiles of all mutual Euclidian distances in data.

## Usage

```
ParetoRadius(Data, maximumNrSamples = 10000,
            plotDistancePercentiles = FALSE)
```

## Arguments

Data numeric data vector

maximumNrSamples

Optional, numeric. Maximum number for which the distance calculation can be done. 1000 by default.

plotDistancePercentiles

Optional, logical. If TRUE, a plot of the percentiles of distances is produced. FALSE by default.

## Details

The Pareto-radius of the hyperspheres is derived from the optimization of information for minimal set size. `ParetoRadius()` is a kernel density estimation for variable intervals. It works only on Data without missing values (NA) or NaN. In other cases, please use `ParetoDensityEstimation` directly.

## Value

numeric value, the Pareto radius.

## Note

This the second version of the function prior available in **AdaptGauss**.

For larger datasets the `quantile_c()` function is used instead of `quantile` in R which was programmed by Dirk Eddelbuettel on Jun 6 and taken by the author from <https://github.com/RcppCore/Rcpp/issues/967>.

## Author(s)

Michael Thrun

## References

Ultsch, A.: Pareto density estimation: A density estimation for knowledge discovery, in Baier, D.; Werrnecke, K. D., (Eds), Innovations in classification, data science, and information systems, Proc Gfkl 2003, pp 91-100, Springer, Berlin, 2005.

## See Also

`ParetoDensityEstimation`, `OptimalNoBins`

*PDEplot*

*PDE plot*

## Description

This function plots the Pareto probability density estimation (PDE), uses `PDEstimationForGauss` and `ParetoRadius`.

## Usage

```
PDEplot(data, paretoRadius = 0, weight = 1, kernels = NULL,
        LogPlot = F, PlotIt = TRUE, title =
        "ParetoDensityEstimation(PDE)", color = "blue",
        xpoints = FALSE, xlim, ylim, xlab = "Data", ylab =
        "PDE", ggPlot = ggplot(), sampleSize = 2e+05, lwd = 2)
```

## Arguments

data	numeric vector, data to be plotted.
paretoRadius	numeric, the Pareto Radius. If omitted, calculate by paretoRad.
weight	numeric, Weight*ParetoDensity is plotted. 1 by default.
kernels	numeric vector of kernels. Optional
LogPlot	LogLog PDEplot if TRUE, xpoints has to be FALSE. Optional
PlotIt	logical, if plot. TRUE by default.
title	character vector, title of plot.
color	character vector, color of plot.
xpoints	logical, if TRUE only points are plotted. FALSE by default.
xlim	Arguments to be passed to the plot method.
ylim	Arguments to be passed to the plot method.
xlab	Arguments to be passed to the plot method.
ylab	Arguments to be passed to the plot method.
ggPlot	ggplot2 object to be plotted upon. Insert an existing plot to add a new PDEPlot to it. Default: empty plot
sampleSize	default(200000), sample size, if datavector is to big
lwd	linewidth, see plot

## Value

kernels	numeric vector. The x points of the PDE function.
paretoDensity	numeric vector, the PDE(x).
paretoRadius	numeric value, the Pareto Radius used for the plot.
ggPlot	ggplot2 object. Can be used to further modify the plot or add other plots.

## Author(s)

Michael Thrun

## References

Ultsch, A.: Pareto Density Estimation: A Density Estimation for Knowledge Discovery, Baier D., Wernecke K.D. (Eds), In Innovations in Classification, Data Science, and Information Systems - Proceedings 27th Annual Conference of the German Classification Society (GfKL) 2003, Berlin, Heidelberg, Springer, pp, 91-100, 2005.

## Examples

```

x <- rnorm(1000, mean = 0.5, sd = 0.5)
y <- rnorm(750, mean = -0.5, sd = 0.75)
plt <- PDEplot(x, color = "red")$ggPlot
plt <- PDEplot(y, color = "blue", ggPlot = plt)$ggPlot

# Second Example
# ggplotObj=ggplot()
# for(i in 1:length(Variables))
#   ggplotObj=PDEplot(Data[,i],ggPlot = ggplotObj)$ggPlot

```

PDEscatter

*Scatter Density Plot*

## Description

Pareto density estimation (PDE) [Ultsch, 2005] used for a scatter density plot.

## Usage

```

PDEscatter(x,y,SampleSize,
na.rm=FALSE,PlotIt=TRUE,ParetoRadius,sampleParetoRadius,
NrOfContourLines=20,Plotter='native', DrawTopView = TRUE,
xlab="X", ylab="Y", main="PDEscatter",
xlim, ylim, Legendlab_ggplot="value")

```

## Arguments

x	Numeric vector [1:n], first feature (for x axis values)
y	Numeric vector [1:n], second feature (for y axis values)
SampleSize	Numeric m, positiv scalar, maximum size of the sample used for calculation. High values increase runtime significantly. The default is that no sample is drawn
na.rm	Function may not work with non finite values. If these cases should be automatically removed, set parameter TRUE
ParetoRadius	Numeric, positiv scalar, the Pareto Radius. If omitted (or 0), calculate by paretoRad.
sampleParetoRadius	Numeric, positiv scalar, maximum size of the sample used for estimation of "kernel", should be significantly lower than SampleSize because requires distance computations which is memory expensive

PlotIt	TRUE: plots with function call FALSE: Does not plot, plotting can be done using the list element Handle -1: Computes density only, does not perform any preparation for plotting meaning that Handle=NULL
NrOfContourLines	Numeric, number of contour lines to be drawn. 20 by default.
Plotter	String, name of the plotting backend to use. Possible values are: "native", "ggplot", "plotly"
DrawTopView	Boolean, True means contour is drawn, otherwise a 3D plot is drawn. Default: TRUE
xlab	String, title of the x axis. Default: "X", see plot() function
ylab	String, title of the y axis. Default: "Y", see plot() function
main	string, the same as "main" in plot() function
xlim	see plot() function
ylim	see plot() function
Legendlab_ggplot	String, in case of Plotter="ggplot" label for the legend. Default: "value"

## Details

The PDEscatter function generates the density of the xy data as a z coordinate. Afterwards xyz will be plotted either as a contour plot or a 3d plot. It assumes that the cases of x and y are mapped to each other meaning that a cbind(x,y) operation is allowed. This function plots the PDE on top of a scatterplot. Variances of x and y should not differ by extreme numbers, otherwise calculate the percentiles on both first. If DrawTopView=FALSE only the plotly option is currently available. If another option is chosen, the method switches automatically there.

The method was successfully used in [Thrun, 2018; Thrun/Ultsch 2018].

PlotIt=FALSE is useful if one likes to perform adjustments like axis scaling prior to plotting with **ggplot2** or **plotly**. In the case of "native" the handle returns NULL because the basic R function plot() is used

## Value

List of:

X	Numeric vector [1:m],m<=n, first feature used in the plot or the kernels used
Y	Numeric vector [1:m],m<=n, second feature used in the plot or the kernels used
Densities	Numeric vector [1:m],m<=n, Number of points within the ParetoRadius of each point, i.e. density information
Matrix3D	1:n,1:3] matrix of x,y and density information
ParetoRadius	ParetoRadius used for PDEscatter
Handle	Handle of the plot object. Information-string if native R plot is used.

**Note**

MT contributed with several adjustments

**Author(s)**

Felix Pape

**References**

- [Thrun, 2018] Thrun, M. C.: Projection Based Clustering through Self-Organization and Swarm Intelligence, (Ultsch, A. & Hullermeier, E. Eds., 10.1007/978-3-658-20540-9), Doctoral dissertation, Heidelberg, Springer, ISBN: 978-3658205393, 2018.
- [Thrun/Ultsch, 2018] Thrun, M. C., & Ultsch, A. : Effects of the payout system of income taxes to municipalities in Germany, in Papiez, M. & Smiech, S. (eds.), Proc. 12th Professor Aleksander Zelias International Conference on Modelling and Forecasting of Socio-Economic Phenomena, pp. 533-542, Cracow: Foundation of the Cracow University of Economics, Cracow, Poland, 2018.
- [Ultsch, 2005] Ultsch, A.: Pareto density estimation: A density estimation for knowledge discovery, In Baier, D. & Werrnecke, K. D. (Eds.), Innovations in classification, data science, and information systems, (Vol. 27, pp. 91-100), Berlin, Germany, Springer, 2005.

**Examples**

```
#taken from [Thrun/Ultsch, 2018]
data("ITS")
data("MTY")
Inds=which(ITS<900&MTY<8000)
plot(ITS[Inds],MTY[Inds],main='Bimodality is not visible in normal scatter plot')

PDEscatter(ITS[Inds],MTY[Inds],xlab = 'ITS in EUR',
           ylab ='MTY in EUR' ,main='Pareto Density Estimation indicates Bimodality' )
```

**Piechart**

*The pie chart*

**Description**

the pie chart represents amount of values given in data.

**Usage**

```
Piechart(Datavector,Names,Labels,MaxNumberOfSlices,
        main='',col,Rline=1,...)
```

## Arguments

Datavector	[1:n] a vector of n non unique values
Names	Optional, [1:k] names to search for in Datavector, if not set unique of Datavector is calculated.
Labels	Optional, [1:k] Labels if they are specially named, if not Names are used.
MaxNumberOfSlices	Default is k, integer value defining how many labels will be shown. Everything else will be summed up to Other.
main	Optional, title below the fan pie, see <a href="#">plot</a>
col	Optional, the default are the first [1:k] colors of the default color sequence used in this package, otherwise a character vector of [1:k] specifying the colors analogous to <a href="#">plot</a>
Rline	Optional, the radius of the pie in numerical numbers
...	Optional, further arguments passed on to <a href="#">plot</a>

## Details

If Number of Slices is higher than MaxNumberOfSlices then ABCanalysis is applied (see [Ultsch/Lotsch, 2015]) and group A chosen. If Number of Slices in group A is higher than MaxNumberOfSlices, then the most important ones out of group A are chosen. If MaxNumberOfSlices is higher than Slices in group A, additional slices are shown depending on the percentage (from high to low). Parameters of visualization a set as in [Schwabish, 2014] defined.

Color sequence is automatically shortened to the MaxNumberOfSlices used in the pie chart.

## Value

silent output by calling <code>invisible</code> of a list with	
Percentages	[1:k] percent values visualized in fanplot
Labels	[1:k] see input <code>Labels</code> , only relevant ones

## Note

You see in the example below that a pie chart does not visualize such data well contrary to the `fanPlot`.

## Author(s)

Michael Thrun

## References

- [Schwabish, 2014] Schwabish, Jonathan A. An Economist's Guide to Visualizing Data. *Journal of Economic Perspectives*, 28 (1): 209-34. DOI: 10.1257/jep.28.1.209, 2014.
- [Ultsch/Lotsch, 2015] Ultsch. A., Lotsch J.: Computed ABC Analysis for Rational Selection of Most Informative Variables in Multivariate Data, *PloS one*, Vol. 10(6), pp. e0129767. doi 10.1371/journal.pone.0129767, 2015.

**Examples**

```
data(categoricalVariable)
Piechart(categoricalVariable)
```

Pixelmatrix

*Plot of a Pixel Matrix***Description**

Plots Data matrix as a pixel colour image.

**Usage**

```
Pixelmatrix(Data, XNames, LowLim, HiLim,
YNames, main = '', FillNotFiniteWithHighestValue=FALSE)
```

**Arguments**

Data	[1:n,1:d] Data cases in rows (n), variables in columns (d)
LowLim	Optional: limits for the color axis
HiLim	Optional: limits for the color axis
XNames	Optional: Vector - names for the X-ticks, NULL: no ticks at all
YNames	Optional: Vector - names for the Y-ticks, NULL: no ticks at all
main	Optinal: String - Title of the plot
FillNotFiniteWithHighestValue	Optinal, Default FALSE = Non finite values are shown in black, TRUE=non finite values are transformed to a value higher than the highest value and shown in this color

**Details**

Low values are shown in blue and green, middle values in yellow and high values in orange and red.

**Author(s)**

Michael Thrun, Felix Pape

**Examples**

```
data("Lsun3D")
Data=Lsun3D$data

Pixelmatrix(Data)
```

---

**Plot3D***3D plot of points*

---

**Description**

A wrapper for Data with systematic clustering colors for either a 2D (x,y) or 3D (x,y,z) plot combined with a classification

**Usage**

```
Plot3D(Data,Cls,UniqueColors,  
       size=2,na.rm=FALSE,Plotter3D="rgl",...)
```

**Arguments**

Data	[1:n,1:d] matrix with either d=2 or d=3, if d>3 only the first 3 dimensions are taken
Cls	[1:n] numeric vector of the classification of data with k classes
UniqueColors	[1:k] character vector of colors, if not given DataVisualizations::DefaultColorSequence is used
size	size of points, for plotly additional a vector [1:n] of a mapping of sizes to Cls has to be given in the (...) argument with sizes=
na.rm	if na.rm=TRUE, then missing values are removed
Plotter3D	in case of 3 dimensions, choose either "plotly" or "rgl", if one of this packages is not given, the other one is selected as a fallback method
...	further arguments to be processed by <code>plot3d</code> or <code>geom_point</code> or <code>plot_ly</code> of type "scatter3d"

**Details**

For `geom_point` only size and na.rm is available as further arguments.

**Note**

Uses either `geom_point` for 2D or `plot3d` for 3D or `plot_ly`

**Author(s)**

Michael Thrun

**References**

RGL vignette in <https://cran.r-project.org/package=rgl>

Spin3D in <https://www.uni-marburg.de/fb12/arbeitsgruppen/datenbionik/software-en>

## Examples

```
#Spin3D similar output

data(Lsun3D)
Plot3D(Lsun3D$Data,Lsun3D$Cls,type='s',radius=0.1,box=FALSE,aspect=TRUE)
rgl::grid3d(c("x", "y", "z"))

#Projected Points with Classification
Data=cbind(runif(500,min=-3,max=3),rnorm(500))

# Classification
Cls=ifelse(Data[,1]>0,1,2)
Plot3D(Data,Cls,UniqueColors = DataVisualizations::DefaultColorSequence[c(1,3)],size=2)

#Points with Non-Overlapping Labels
#require(ggrepel)
Data=cbind(runif(30,min=-1,max=1),rnorm(30,0,0.5))
Names=paste0('VeryLongName',1:30)
ggobj=Plot3D(Data)
ggobj + geom_text_repel(aes(label=Names), size=3)
```

PlotMissingvalues      *Plot of the Amount Of Missing Values*

## Description

Percentage of missing values per feature are visualized as a bar plot.

## Usage

```
PlotMissingvalues(Data,Names,
WhichDefineMissing=c('NA','NaN','DUMMY','.',' '),
PlotIt=TRUE,
xlab='Amount Of Missing Values in Percent',
xlim=c(0,100),...)
```

## Arguments

Data	[1:n,1:d] data cases in rows, variables/features in columns
Names	[1:d] optional vector of string describing the names of the features

WhichDefineMissing	[1:d] optional vector of string describing missing values, usefull for character features. Currently up to five different options are possible.
PlotIt	If FALSE: Does not plot
xlab	x label of bar plot
xlim	x axis limits in percent
...	Further arguments passed on to barplot, such as main for title

## Value

plots not finite and missing values as a bar plot for each feature d and returns with invisible the amount of missing values as a vector. Works even with character variables, but WhichDefineMissing cannot be changed at the current version. Please make a suggestion on GitHub how to improve this.

## Note

Does not work with the tibble format, in such a case please call as.data.frame(as.matrix(Data))

## Author(s)

Michael Thrun

## Examples

```
data("ITS")
data("MTY")

PlotMissingvalues(cbind(ITS,MTY),Names=c('ITS','MTY'))
```

## Description

The product-ratio plot as defined in [Tukey, 1977, p. 594].

## Usage

```
PlotProductratio(x, y, na.rm = FALSE,
main='Product Ratio Analysis',xlab = "Log of Ratio",ylab = "Root of Product", ...)
```

### Arguments

x	[1:n] positive numerical vector, negativ values are removed automatically
y	[1:n] positive numerical vector, negativ values are removed automatically
na.rm	Function may not work with non finite values. If these cases should be automatically removed, set parameter TRUE
main	see plot
ylab	see plot
xlab	see plot
...	further arguments passed on to plot

### Details

In the case where there are many instances of very small values, but a small number of very large ones, this plot is usefull [Tukey, 1977, p. 615].

### Value

matrix[1:n,2] with sqrt(x\*y) and log(x/y) as the two columns

### Author(s)

Michael Thrun

### References

[Tukey, 1977] Tukey, J. W.: Exploratory data analysis, United States Addison-Wesley Publishing Company, ISBN: 0-201-07616-0, 1977.

### Examples

```
#Beware: The data does no fit ne requirements for this approach
data('ITS')
data(MTY)
PlotProductratio(ITS,MTY)
```

### Description

Defines the default color sequence for plots made with PDEscatter

### Usage

```
data("PmatrixColormap")
```

**Format**

Returns the vectors for a (heat) colormap.

---

**QQplot***QQplot with a Linear Fit*

---

**Description**

Quantile-quantile plot with a linear fit

**Usage**

```
QQplot(X,Y,xlab ='X', ylab='Y',col="red",main='',...)
```

**Arguments**

X	[1:n] numerical vector, First Feature
Y	1:n] numerical vector, Second Feature to compare first feature with
xlab	x label, see plot ...
ylab	y label, see plot
col	color of line, see plot
main	title of plot, see plot
...	other parameters for qqplot

**Details**

Output is the evaluation of a linear fit of lm called 'line' and a quantile quantile plot (QQplot).

**Value**

List with

Residuals	Output of residuals.lm(line)
Summary	Output of summary(line)
Anova	Output of anova(line)

**Author(s)**

Michael Thrun

**References**

Michael, J. R.: The stabilized probability plot, Biometrika, Vol. 70(1), pp. 11-17, 1983.

**ShepardDensityscatter** *Shepard PDE scatter*

## Description

Draws ein Shepard Diagram (scatterplot of distances) with an two-dimensional PDE density estimation .

## Usage

```
ShepardDensityScatter(InputDists,OutputDists,
Plotter='native',xlab='Input Distances',
ylab='Output Distances',main='ProjectionMethod',
sampleSize=500000)
```

## Arguments

InputDists	[1:n,1:n] with n cases of data in d variables/features: Matrix containing the distances of the inputspace.
OutputDists	[1:n,1:n] with n cases of data in d dimensionalites of the projection method variables/features: Matrix containing the distances of the outputspace.
xlab	Label of the x axis in the resulting Plot.
ylab	Label of the y axis in the resulting Plot.
Plotter	see PDEscatter for details
main	Title of the Shepard diagram
sampleSize	Optional, default(500000), reduces amount of data for density estimation, if too many distances given

## Details

Introduced and described in [Thrun, 2018, p. 63] with examples in [Thrun, 2018, p. 71-72]

## Author(s)

Michael Thrun

## References

[Thrun, 2018] Thrun, M. C.: Projection Based Clustering through Self-Organization and Swarm Intelligence, doctoral dissertation 2017, Springer, ISBN: 978-3-658-20540-9, Heidelberg, 2018.

## Examples

```

data("Lsun3D")
Cls=Lsun3D$Cls
Data=Lsun3D$data
InputDist=as.matrix(dist(Data))
res = stats::cmdscale(d = InputDist, k = 2, eig = TRUE,
                      add = FALSE, x.ret = FALSE)
ProjectedPoints = as.matrix(res$points)

ShepardDensityScatter(InputDist,as.matrix(dist(ProjectedPoints)),main = 'MDS')

```

**Sheparddiagram** *Draws a Shepard Diagram*

## Description

This function plots a Shepard diagram which is a scatter plot of InputDist and OutputDist

## Usage

```
Sheparddiagram(InputDists, OutputDists, xlab = "Input Distances",
               ylab= "Output Distances", fancy = F,
               main = "ProjectionMethod", gPlot = ggplot())
```

## Arguments

InputDists	[1:n,1:n] with n cases of data in d variables/features: Matrix containing the distances of the inputspace.
OutputDists	[1:n,1:n] with n cases of data in d dimensionalites of the projection method variables/features: Matrix containing the distances of the outputspace.
xlab	Label of the x axis in the resulting Plot.
ylab	Label of the y axis in the resulting Plot.
fancy	Set FALSE for PC and TRUE for publication
main	Title of the Shepard diagram
gPlot	ggplot2 object to plot upon.

## Value

ggplot2 object containing the plot.

**Author(s)**

Michael Thrun

**Examples**

```
data("Lsun3D")
Cls=Lsun3D$Cls
Data=Lsun3D$Data
InputDist=as.matrix(dist(Data))
res = stats::cmdscale(d = InputDist, k = 2, eig = TRUE,
                      add = FALSE, x.ret = FALSE)
ProjectedPoints = as.matrix(res$points)

Sheparddiagram(InputDist,as.matrix(dist(ProjectedPoints)),main = 'MDS')
```

**SignedLog**

*Signed Log*

**Description**

Computes the Signed Log if Data

**Usage**

```
SignedLog(Data,Base="Ten")
```

**Arguments**

Data	[1:n,1:d] Data matrix with n cases and d variables
Base	Either "Ten", "Two", "Zero", or any number.

**Details**

A neat transformation for data, it it has a better representation on the log scale.

**Value**

Transformed Data

**Note**

Number Selections for Base for 2,10, "Two" or "Ten" add 1 to every datapoint as defined in the lectures.

**Author(s)**

Michael Thrun

**References**

Prof. Dr. habil. A. Ultsch, Lectures in Knowledge Discovery, 2014.

**See Also**

[log](#)

**Examples**

```
# sampling is done
# because otherwise the example takes too long
# in the CRAN check
data('ITS')
ind=sample(length(ITS),1000)

MDplot(SignedLog(cbind(ITS[ind],MTY[ind])*(-1),Base = "Ten"))
```

Silhouetteplot

*Silhouette plot of classified data.*

**Description**

Silhouette plot of cluster silhouettes for the n-by-d data matrix Data or distance matrix where the clusters are defined in the vector Cls.

**Usage**

```
Silhouetteplot(DataOrDistances, Cls, method='euclidean',
PlotIt=TRUE, ...)
```

**Arguments**

DataOrDistances	[1:n,1:d] data cases in rows, variables in columns, if not symmetric or [1:n,1:n] distance matrix, if symmetric
Cls	numeric vector, [1:n,1] classified data
method	Optional if Datamatrix is used, one of "euclidean", "maximum", "manhattan", "canberra", "binary" or "minkowski". Any unambiguous substring can be given, see dist
PlotIt	Optional, Default:TRUE, FALSE to suppress the plot ... If PlotIt=TRUE: Further arguments to <a href="#">barplot</a>

## Details

"The Silhouette plot is a common unsupervised index for visual evaluation of a clustering [L. R. Kaufman/Rousseeuw, 2005] [introduced in [Rousseeuw, 1987]]. A reasonable clustering is characterized by a silhouette width of greater than 0.5, and an average width below 0.2 should be interpreted as indicating a lack of any substantial cluster structure [Everitt et al., 2001, p. 105]. However, it is evident that silhouette scores assume clusters that are spherical or Gaussian in shape [Herrmann, 2011, pp. 91-92]" [Thrun, 2018, p. 29].

## Value

silh	Silhouette values in a N-by-1 vector
------	--------------------------------------

## Author(s)

Onno Hansen-Goos, Michael Thrun

## References

- [Thrun, 2018] Thrun, M. C.: Projection Based Clustering through Self-Organization and Swarm Intelligence, doctoral dissertation 2017, Springer, ISBN: 978-3-658-20539-3, Heidelberg, 2018.
- [Rousseeuw, 1987] Rousseeuw, Peter J.: Silhouettes: a Graphical Aid to the Interpretation and Validation of Cluster Analysis, Computational and Applied Mathematics, 20, p.53-65, 1987.

## Examples

```
data("Lsun3D")
Cls=Lsun3D$Cls
Data=Lsun3D$data
#clear cluster structure
plot(Data[,1:2],col=Clus)
#However, the silhouette plot does not indicate a very good clustering in cluster 1 and 2
Silhouetteplot(Data,Cls = Clus,main='Silhouetteplot')
```

## Description

ABC analysis improved slope chart

## Usage

```
Slopechart(FirstDatavector,
SecondDatavector,
Names,
```

```

Labels,
MaxNumberOfSlices,
TopLabels=c('FirstDatavector', 'SecondDatavector'),
main='Comparision of Descending Frequency')

```

### Arguments

FirstDatavector	[1:n] a vector of n non unique values - a features
SecondDatavector	[1:m] a vector of n non unique values - a second feature
Labels	Optional, [1:k] Labels if they are specially named, if not Names are used.
Names	[1:k] names to search for in Datavector, if not set unique of Datavector is calculated.
MaxNumberOfSlices	Default is k, integer value defining how many labels will be shown. Everything else will be summed up to Other.
TopLabels	Labels of of feature names
main	title of the plot

### Details

still experimental.

### Value

silent output by calling invisible of a list with	
Percentages	[1:k] percent values visualized in fanplot
Labels	[1:k] see input Labels, only relevant ones

### Author(s)

Michael Thrun

### References

[Gohil, 2015] Gohil, Atmajitsinh. R data Visualization cookbook. Packt Publishing Ltd, 2015.

### See Also

[Piechart](#), [Fanplot](#)

### Examples

```
## will follow
```

**SmoothedDensitiesXY**    *Smoothed Densities X with Y*

### Description

Density is the smoothed histogram density at [X,Y] of [Eilers/Goeman, 2004]

### Usage

```
SmoothedDensitiesXY(X, Y, nbins, lambda, Xkernels, Ykernels, PlotIt = FALSE)
```

### Arguments

X	Numeric vector [1:n], first feature (for x axis values)
Y	Numeric vector [1:n], second feature (for y axis values), nbins= nxy => the nr of bins in x and y is nxy nbins = c(nx,ny) => the nr of bins in x is nx and for y is ny
nbins	number of bins, nbins =200 (default)
lambda	smoothing factor used by the density estimator or c() default: lambda = 20 which roughly means that the smoothing is over 20 bins around a given point.
Xkernels	bin kernels in x direction are given
Ykernels	bin kernels y direction are given
PlotIt	FALSE: no plotting, TRUE: simple plot

### Details

lambda has to be chosen by the user and is a sensitive parameter.

### Value

List of:

Densities	numeric vector [1:n] is the smoothed density in 3D
Xkernels	numeric vector [1:nx], nx defined by nbins, such that mesh(Xkernels,Ykernels,F) form the ( not NaN) smoothed densities
Ykernels	numeric vector [1:ny], ny defined by nbins, such that mesh(Xkernels,Ykernels,F) form the ( not NaN) smoothed densities
hist_F_2D	matrix [1:nx,1:ny] being the smoothed 2D histogram
ind	an index such that Densities = hist_F_2D[ind]

### Author(s)

Michael Thrun, reimplemented from Matlab (Alfred Ultsch)

## References

[Eilers/Goeman, 2004] Eilers, P. H., & Goeman, J. J.: Enhancing scatterplots with smoothed densities, Bioinformatics, Vol. 20(5), pp. 623-628. 2004.

## See Also

[DensityScatter](#)

## Examples

```
data("ITS")
data("MTY")
Inds=which(ITS<900&MTY<8000)
V=SmoothedDensitiesXY(ITS[Inds],MTY[Inds])
```

StatPDEdensity

*Pareto Density Estimation*

## Description

Density Estimation for ggplot with a clear model behind it.

## Format

The format is: Classes 'StatPDEdensity', 'Stat', 'ggproto' <ggproto object: Class StatPDEdensity, Stat> aesthetics: function compute\_group: function compute\_layer: function compute\_panel: function default\_aes: uneval extra\_params: na.rm finish\_layer: function non\_missing\_aes: parameters: function required\_aes: x y retransform: TRUE setup\_data: function setup\_params: function super: <ggproto object: Class Stat>

## Details

PDE was published in [Ultsch, 2005], short explanation in [Thrun, Ultsch 2018] and the PDE optimized violin plot was published in [Thrun et al., 2018].

## References

[Ultsch,2005] Ultsch, A.: Pareto density estimation: A density estimation for knowledge discovery, in Baier, D.; Werrnecke, K. D., (Eds), Innovations in classification, data science, and information systems, Proc Gfkl 2003, pp 91-100, Springer, Berlin, 2005.

[Thrun, Ultsch 2018] Thrun, M. C., & Ultsch, A. : Effects of the payout system of income taxes to municipalities in Germany, in Papiez, M. & Smiech, S. (eds.), Proc. 12th Professor Aleksander Zelias International Conference on Modelling and Forecasting of Socio-Economic Phenomena, pp. 533-542, Cracow: Foundation of the Cracow University of Economics, Cracow, Poland, 2018.

[Thrun et al, 2018] Thrun, M. C., Pape, F., & Ultsch, A. : Benchmarking Cluster Analysis Methods using PDE-Optimized Violin Plots, Proc. European Conference on Data Analysis (ECDA), accepted, Paderborn, Germany, 2018.

<code>stat_pde_density</code>	<i>Calculate Pareto density estimation for ggplot2 plots</i>
-------------------------------	--

## Description

This function enables to replace the default density estimation for ggplot2 plots with the Pareto density estimation [Ultsch, 2005]. It is used for the PDE-Optimized violin plot published in [Thrun et al, 2018].

## Usage

```
stat_pde_density(mapping = NULL,
                  data = NULL,
                  geom = "violin",
                  position = "dodge",
                  ...,
                  trim = TRUE,
                  scale = "area",
                  na.rm = FALSE,
                  show.legend = NA,
                  inherit.aes = TRUE)
```

## Arguments

<code>mapping</code>	Set of aesthetic mappings created by <a href="#">aes()</a> or <a href="#">aes_()</a> . If specified and <code>inherit.aes</code> = TRUE (the default), it is combined with the default mapping at the top level of the plot. You must supply <code>mapping</code> if there is no plot mapping.
<code>data</code>	The data to be displayed in this layer. There are three options: If <code>NULL</code> , the default, the data is inherited from the plot data as specified in the call to <a href="#">ggplot()</a> . A <code>data.frame</code> , or other object, will override the plot data. All objects will be fortified to produce a data frame. See <a href="#">fortify()</a> for which variables will be created. A function will be called with a single argument, the plot data. The return value must be a <code>data.frame</code> , and will be used as the layer data.
<code>geom</code>	The geometric object to use display the data
<code>position</code>	Position adjustment, either as a string, or the result of a call to a position adjustment function.
<code>...</code>	Other arguments passed on to <a href="#">layer()</a> . These are often aesthetics, used to set an aesthetic to a fixed value, like <code>color = "red"</code> or <code>size = 3</code> . They may also be parameters to the paired geom/stat.
<code>trim</code>	This parameter only matters if you are displaying multiple densities in one plot. If 'FALSE', the default, each density is computed on the full range of the data. If 'TRUE', each density is computed over the range of that group: this typically means the estimated x values will not line-up, and hence you won't be able to stack density values.

scale	When used with geom_violin: if "area" (default), all violins have the same area (before trimming the tails). If "count", areas are scaled proportionally to the number of observations. If "width", all violins have the same maximum width.
na.rm	If FALSE (the default), removes missing values with a warning. If TRUE silently removes missing values.
show.legend	logical. Should this layer be included in the legends? NA, the default, includes if any aesthetics are mapped. FALSE never includes, and TRUE always includes. It can also be a named logical vector to finely select the aesthetics to display.
inherit.aes	If FALSE, overrides the default aesthetics, rather than combining with them. This is most useful for helper functions that define both data and aesthetics and shouldn't inherit behaviour from the default plot specification, e.g. <a href="#">borders()</a> .

## Details

Pareto Density Estimation (PDE) is a method for the estimation of probability density functions using hyperspheres. The Pareto-radius of the hyperspheres is derived from the optimization of information for minimal set size. It is shown, that Pareto Density is the best estimate for clusters of Gaussian structure. The method is shown to be robust when cluster overlap and when the variances differ across clusters.

## Author(s)

Felix Pape

## References

- Ultsch, A.: Pareto density estimation: A density estimation for knowledge discovery, in Baier, D.; Werrnecke, K. D., (Eds), Innovations in classification, data science, and information systems, Proc Gfkl 2003, pp 91-100, Springer, Berlin, 2005.
- [Thrun et al, 2018] Thrun, M. C., Pape, F., & Ultsch, A. : Benchmarking Cluster Analysis Methods using PDE-Optimized Violin Plots, Proc. European Conference on Data Analysis (ECDA), accepted, Paderborn, Germany, 2018.

## See Also

[\[ggplot2\]stat\\_density](#)

## Examples

```
miris <- reshape2::melt(iris)

ggplot2::ggplot(miris,
  mapping = ggplot2::aes_string(y = 'value', x = 'variable')) +
  ggplot2::geom_violin(stat = "PDEdensity")
```

**Worldmap***plots a world map by country codes***Description**

The Worldmap function is used in [Thrun, 2018].

**Usage**

```
Worldmap(CountryCodes, Cls, Colors,  
MissingCountryColor = grDevices::gray(0.8), ...)
```

**Arguments**

CountryCodes	[1:n] vector of characters identifying countries by ISO 3166 codes (2 or 3 letters)
Cls	[1:n] numerical vector of classification
Colors	optional, vector of characters specifying the used colors
MissingCountryColor	if not all countries are specified in CountryCodes then the color of non relevant countries can be changed here
...	Further arguments passed on to plot, see also sp::SpatialPolygons-class

**Value**

List of

Colors	[1:m] colors used in map, m<=n
CountryCodeList	[1:m] countries found, m<=n
world_country_polygons	SpatialPolygonsDataFrame of maptools

**Author(s)**

Michae Thrun

**References**

Used in

[Thrun, 2018] Thrun, M. C. : Cluster Analysis of the World Gross-Domestic Product Based on Emergent Self-Organization of a Swarm, 12th Professor Aleksander Zelias International Conference on Modelling and Forecasting of Socio-Economic Phenomena, Foundation of the Cracow University of Economics, Zakopane, Poland, accepted, 2018.

Source for shapefile: - package maptools and

Originally 'mappinghacks.com/data/TM\_WORLD\_BORDERS\_SIMPL-0.2.zip', now available from <https://github.com/nasa/World-Wind-Java/tree/master/WorldWind/testData/shapefiles>

## Examples

```
# data from [Thrun, 2018]
Cls=c(1L, 1L, 2L, 2L, 2L, 1L, 2L, 1L, 1L, 1L, 2L, 2L, 2L,
2L, 2L, 1L, 2L, 2L, 1L, 2L, 1L, 2L, 1L, 2L, 2L, 1L, 1L, 1L,
1L, 2L, 1L, 1L, 2L, 2L, 1L, 2L, 2L, 2L, 2L, 1L, 2L, 1L, 1L,
2L, 2L, 2L, 1L, 2L, 2L, 1L, 1L, 1L, 3L, 2L, 2L, 2L, 1L,
2L, 1L, 1L, 2L, 1L, 1L, 2L, 2L, 2L, 2L, 2L, 2L, 2L, 1L,
1L, 2L, 2L, 2L, 1L, 2L, 1L, 1L, 2L, 2L, 1L, 1L, 1L, 2L, 1L,
2L, 1L, 2L, 1L, 1L, 2L, 1L, 1L, 2L, 1L, 1L, 1L, 2L, 2L, 1L,
2L, 2L, 1L, 2L, 2L, 1L, 1L, 2L, 1L, 1L, 1L, 2L, 2L, 1L, 1L,
2L, 1L, 1L, 2L, 1L, 1L, 2L, 2L, 1L, 1L, 1L, 2L, 2L, 2L, 2L,
2L, 2L, 2L, 1L, 1L, 2L, 2L, 2L, 1L, 1L, 1L, 1L, 2L, 2L, 1L,
2L, 2L, 2L, 1L, 1L)
Codes=c("AFG", "AGO", "ALB", "ARG", "ATG", "AUS", "AUT", "BDI", "BEL",
"BEN", "BFA", "BGD", "BGR", "BHR", "BHS", "BLZ", "BMU", "BOL",
"BRA", "BRB", "BRN", "BTN", "BWA", "CAF", "CAN", "CH2", "CHE",
"CHL", "CHN", "CIV", "CMR", "COG", "COL", "COM", "CPV", "CRI",
"CUB", "CYP", "DJI", "DMA", "DNK", "DOM", "DZA", "ECU", "EGY",
"ESP", "ETH", "FIN", "FJI", "FRA", "FSM", "GAB", "GBR", "GER",
"GHA", "GIN", "GMB", "GNB", "GNQ", "GRC", "GRD", "GTM", "GUY",
"HKG", "HND", "HTI", "HUN", "IDN", "IND", "IRL", "IRN", "IRQ",
"ISL", "ISR", "ITA", "JAM", "JOR", "JPN", "KEN", "KHM", "KIR",
"KNA", "KOR", "LAO", "LBN", "LBR", "LCA", "LKA", "LSO", "LUX",
"MAC", "MAR", "MDG", "MDV", "MEX", "MHL", "MLI", "MLT", "MNG",
"MOZ", "MRT", "MUS", "MWI", "MYS", "NAM", "NER", "NGA", "NIC",
"NLD", "NOR", "NPL", "NZL", "OMN", "PAK", "PAN", "PER", "PHL",
"PLW", "PNG", "POL", "PRI", "PRT", "PRY", "ROM", "RWA", "SDN",
"SEN", "SGP", "SLB", "SLE", "SLV", "SOM", "STP", "SUR", "SWE",
"SWZ", "SYC", "SYR", "TCD", "TGO", "THA", "TON", "TTO", "TUN",
"TUR", "TWN", "TZA", "UGA", "URY", "USA", "VCT", "VEN", "VNM",
"VUT", "WSM", "ZAF", "ZAR", "ZMB", "ZWE")
Worldmap(Codes,Cls)
```

## world\_country\_polygons

*world\_country\_polygons*

## Description

world\_country\_polygons shaoefile

## Usage

```
data("world_country_polygons")
```

## Format

The format is: Formal class 'SpatialPolygonsDataFrame' [package "sp"] with 5 slots ..@ data :`data.frame': 246 obs. of 11 variables: ... \$ FIPS : Factor w/ 244 levels "", "AC", "AE", "AF", ... : 2 5

```

6 7 8 10 11 12 13 17 ... ... $. ISO2 : Factor w/ 246 levels "AD","AE","AF",...: 4 61 17 6 7 9 12 11
14 24 ... ... $. ISO3 : Factor w/ 246 levels "ABW","AFG","AGO",...: 15 64 18 6 11 3 12 10 16 25 ...
... ... $. UN : int [1:246] 28 12 31 8 51 24 16 32 36 48 ... ... $. NAME : Factor w/ 246 levels "Aaland
Islands",...: 10 4 16 3 12 7 5 11 14 18 ... ... $. AREA : int [1:246] 44 238174 8260 2740 2820
124670 20 273669 768230 71 ... ... $. POP2005 : num [1:246] 83039 32854159 8352021 3153731
3017661 ... ... $. REGION : int [1:246] 19 2 142 150 142 2 9 19 9 142 ... ... $. SUBREGION: int
[1:246] 29 15 145 39 145 17 61 5 53 145 ... ... $. LON : num [1:246] -61.78 2.63 47.4 20.07 44.56
... ... ... $. LAT : num [1:246] 17.1 28.2 40.4 41.1 40.5 ... ... @ polygons :List of 246 ... ... $. :Formal
class 'Polygons' [package "sp"] with 5 slots ... ... ... @ Polygons :List of 2 ... ... ... $. :Formal class
'Polygon' [package "sp"] with 5 slots ... ... ... ... @ labpt : num [1:2] -61.8 17.1 ... ... ... ... ...
... @ area : num 0.00957 ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ...
... ... ... @ coords : num [1:4, 1:2] -61.7 -61.9 -61.8 -61.7 17 ... ... ... ... $. :Formal class 'Polygon'
[package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] -61.8 17.6 ... ... ... ... ... @ area :
num 0.00774 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ...
@ coords : num [1:4, 1:2] -61.7 -61.9 -61.9 -61.7 17.6 ... ... ... ... @ plotOrder: int [1:2] 1 2 ... ...
@ labpt : num [1:2] -61.8 17.1 ... ... ... @ ID : chr "ATG" ... ... ... @ area : num 0.0173 ... ... $. :Formal
class 'Polygons' [package "sp"] with 5 slots ... ... ... @ Polygons :List of 1 ... ... ... ... $. :Formal class
'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 2.63 28.17 ... ... ... ...
... @ area : num 214 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ...
... ... ... @ coords : num [1:45, 1:2] 2.96 4.79 5.33 6.4 8.62 ... ... ... ... @ plotOrder: int 1 ... ...
... @ labpt : num [1:2] 2.63 28.17 ... ... ... @ ID : chr "DZA" ... ... ... @ area : num 214 ... ... $. :Formal
class 'Polygons' [package "sp"] with 5 slots ... ... ... ... @ Polygons :List of 5 ... ... ... ... $. :Formal class
'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 47.7 40.3 ... ... ...
... @ area : num 8.49 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ...
... ... ... @ coords : num [1:22, 1:2] 46.6 47.8 48.6 49.5 50.4 ... ... ... ... $. :Formal class 'Polygon' [package
"sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 45.5 39.4 ... ... ... ... ... @ area : num 0.506 ...
... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ...
... ... ... ... ... @ coords : num [1:7, 1:2] 45.1 45.8 46.2 45 44.8 ... ... ... ... ... $. :Formal class 'Polygon' [package "sp"]
with 5 slots ... ... ... ... ... @ labpt : num [1:2] 45.5 40.6 ... ... ... ... ... @ area : num 0.00169 ...
... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ...
... ... ... ... ... @ coords : num [1:4, 1:2] 45 45 45 45 41 ... ... ... ... ... $. :Formal class 'Polygon' [package "sp"]
with 5 slots ... ... ... ... ... @ labpt : num [1:2] 45.2 41 ... ... ... ... ... @ area : num 0.00036 ...
... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ...
... ... ... ... ... @ coords : num [1:4, 1:2] 45.2 45.2 45.2 45.2 41 ... ... ... ... ... @ plotOrder: int
[1:5] 1 2 3 4 5 ... ... ... @ labpt : num [1:2] 47.7 40.3 ... ... ... @ ID : chr "AZE" ... ...
... @ area : num 9 ... $. :Formal class 'Polygons' [package "sp"] with 5 slots ... ... ... @ Polygons :List of 1 ...
... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 20.1
41.1 ... ... ... ... ... @ area : num 2.89 ... ... ... ... ... @ hole : logi FALSE ... ...
... ... ... ... ... @ ringDir: int 1 ...
... ... ... ... ... @ coords : num [1:15, 1:2] 19.4 19.6 19.4 19.6 20.1 ... ...
... ... ... ... ... @ plotOrder: int 1 ...
... ... ... ... ... @ labpt : num [1:2] 20.1 41.1 ... ...
... ... ... ... ... @ ID : chr "ALB" ... ...
... ... ... ... ... @ area : num 2.89 ...
... ... ... ... ... $. :Formal class 'Polygons' [package "sp"] with 5 slots ... ...
... ... ... ... ... @ Polygons :List of 4 ...
... ... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ... ... ... ... @ labpt : num [1:2] 45 40.3 ...
... ... ... ... ... ... @ area : num 3.21 ...
... ... ... ... ... ... @ hole : logi FALSE ...
... ... ... ... ... ... @ ringDir: int 1 ...
... ... ... ... ... ... @ coords : num [1:15, 1:2] 45.2 46 45.6 46.5 46.5 ...
... ... ... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ... ... ... ... @ labpt : num [1:2] 45.5 40.6 ...
... ... ... ... ... ... @ area : num 0.00169 ...
... ... ... ... ... ... @ hole : logi TRUE ...
... ... ... ... ... ... @ ringDir: int -1 ...
... ... ... ... ... ... @ coords :

```

```

num [1:4, 1:2] 45.6 45.5 45.5 45.6 40.6 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with
5 slots ... ... ... ... ...@ labpt : num [1:2] 45 41.1 ... ... ... ...@ area : num 0.000995 ... ... ...
..@ hole : logi TRUE ... ... ... ... ...@ ringDir: int -1 ... ... ... ... ...@ coords : num [1:4, 1:2] 45 45
45 45 41 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt :
num [1:2] 45.2 41 ... ... ... ... ...@ area : num 0.00036 ... ... ... ... ...@ hole : logi TRUE ... ...
... ...@ ringDir: int -1 ... ... ... ... ...@ coords : num [1:4, 1:2] 45.2 45.2 45.2 45.2 41 ... ... ... ...
@ plotOrder: int [1:4] 1 2 3 4 ... ... ...@ labpt : num [1:2] 45 40.3 ... ... ...@ ID : chr "ARM" ...
... ...@ area : num 3.21 ... ...$ :Formal class 'Polygons' [package "sp"] with 5 slots ... ... ... ... ...@ Polygons
:List of 3 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt :
num [1:2] 17.6 -12.4 ... ... ... ... ...@ area : num 104 ... ... ... ... ...@ hole : logi FALSE ...
... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:35, 1:2] 14 16.6 16.9 17.6 19.4 ...
... ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 12.47 -5.06
... ... ... ... ...@ area : num 0.616 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir:
int 1 ... ... ... ... ...@ coords : num [1:8, 1:2] 13.1 12.6 12.5 12.2 12 ... ... ... ... ...$ :Formal class
'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 11.7 -16.7 ... ... ...
...@ area : num 0.00124 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] 11.8 11.7 11.8 11.8 -16.8 ... ... ... ... ...@ plotOrder: int [1:3] 1 2 3 ...
... ...@ labpt : num [1:2] 17.6 -12.4 ... ... ... ...@ ID : chr "AGO" ... ... ...@ area : num 104 ... ...$ :Formal
class 'Polygons' [package "sp"] with 5 slots ... ... ... ... ...@ Polygons :List of 5 ... ... ... ...$ :Formal class
'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -169.5 -14.3 ...
... ... ... ... ...@ area : num 0.00168 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -169.4 -169.5 -169.5 -169.4 -14.3 ...
... ... ... ... ... ...$ :Formal class
'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -170.7 -14.3 ...
... ... ... ... ...@ area : num 0.000856 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -170.6 -170.8 -170.6 -170.6 -14.3 ...
... ... ... ... ... ...$ :Formal class
'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -169.7 -14.2 ...
... ... ... ... ...@ area : num 0.00033 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -169.7 -169.7 -169.7 -169.7 -14.2 ...
... ... ... ... ... ...$ :Formal class
'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -169.6 -14.2 ...
... ... ... ... ...@ area : num 0.000227 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -169.6 -169.6 -169.6 -169.6 -14.2 ...
... ... ... ... ... ...$ :Formal class
'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -170.5 -14.3 ...
... ... ... ... ...@ area : num 0.000137 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -170.5 -170.6 -170.5 -170.5 -14.3 ...
... ... ... ... ... ...@ plotOrder: int [1:5] 1 2 3 4 5 ...
... ... ... ... ...@ labpt : num [1:2] -169.5 -14.3 ...
... ... ... ... ...@ ID : chr "ASM" ...
... ... ... ... ...@ area : num 0.00323 ...
... ... ... ... ...$ :Formal class 'Polygons' [package "sp"] with 5 slots ... ... ...
...@ Polygons :List
of 6 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ...
...@ labpt : num [1:2] -65.2 -35.2 ...
... ... ... ... ...@ area : num 275 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:119, 1:2] -65.7 -65.2 -64.6 -64.3 -63.9 ...
... ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -67.4
-54.4 ...
... ... ... ... ...@ area : num 3.13 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir:
int 1 ...
... ... ... ... ...@ coords : num [1:9, 1:2] -68.3 -68.5 -67.4 -65.1 -65.4 ...
... ... ... ... ... ...$ :Formal
class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -64.4 -54.8 ...
... ... ... ... ...@ area : num 0.038 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -63.8 -64.7 -64.8 -63.8 -54.7 ...
... ... ... ... ... ...$ :Formal class 'Polygon'
[package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -62 -39.2 ...
... ... ... ... ...@ area : num 0.0103 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -61.9 -62.1 -61.9 -61.9 -39.2 ...
... ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"]

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with 5 slots ... ... ... ... ...@ labpt : num [1:2] -62 -39 ... ... ... ... ...@ area : num 0.00309 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -62 -62.1 -62 -62.1 ... ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -68.6 -54.9 ... ... ... ... ...@ area : num 0.00146 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -68.6 -68.6 -68.6 -68.6 ... ... ... ...@ plotOrder: int [1:6] 1 2 3 4 5 6 ... ... ... ...@ labpt : num [1:2] -65.2 -35.2 ... ... ... ...@ ID : chr "ARG" ... ... ...@ area : num 278 ... ... ... ...\$ :Formal class 'Polygons' [package "sp"] with 5 slots ... ... ... ... ...@ Polygons :List of 97 ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 134.4 -25.6 ... ... ... ... ...@ area : num 688 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:209, 1:2] 143 143 144 145 145 ... ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 147 -42 ... ... ... ... ...@ area : num 6.66 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:17, 1:2] 145 147 148 148 148 ... ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 131 -11.5 ... ... ... ... ...@ area : num 0.403 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:6, 1:2] 131 131 132 131 130 ... ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 137.4 -35.8 ... ... ... ... ...@ area : num 0.184 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 137.6 138.1 136.5 137.6 -35.7 ... ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 136.7 -14.1 ... ... ... ... ...@ area : num 0.11 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:6, 1:2] 137 137 137 137 136 ... ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 153.1 -25.4 ... ... ... ... ...@ area : num 0.0983 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 152.9 153.3 153.1 -25.8 ... ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 130.3 -11.6 ... ... ... ... ...@ area : num 0.0934 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 130.5 130 130.3 130.5 -11.7 ... ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 148 -40 ... ... ... ... ...@ area : num 0.0687 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 148.2 147.9 148.3 148.2 -40.3 ... ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 139.4 -16.6 ... ... ... ... ...@ area : num 0.0657 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 139.7 139.1 139.3 139.7 -16.5 ... ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 144 -39.9 ... ... ... ... ...@ area : num 0.0495 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 144 144 144.1 144 -40.1 ... ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 113 -25.8 ... ... ... ... ...@ area : num 0.0378 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 113.2 113 113 113.2 -26.1 ... ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 148.3 -40.4 ... ... ... ... ...@ area : num 0.0295 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 148.4 148.5 148 148.4 -40.3 ... ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 151.2 -23.6 ... ... ... ... ...@ area : num 0.0206 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 151.3 151 151.2 151.3 -23.8 ... ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 147.3 -43.4 ... ... ... ... ...@ area : num 0.0172 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 147.4 147.1 147.3 147.4 -43.4 ... ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ...

... @ labpt : num [1:2] 153.5 -27.5 ... ... ... ... ... @ area : num 0.0164 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] 153.5 153.4 153.5 153.5 -27.7 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... ... @ labpt : num [1:2] 146.2 -18.4 ... ... ... ... ... @ area : num 0.0161 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] 146.3 146.1 146.3 146.3 -18.5 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 124.5 -15.4 ... ... ... ... ... @ area : num 0.0153 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:5, 1:2] 125 125 125 124 125 125 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 136.7 -11.2 ... ... ... ... ... @ area : num 0.0119 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] 136.5 136.8 136.7 136.5 -11.5 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 137 -15.7 ... ... ... ... ... @ area : num 0.0116 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] 137.1 136.9 137 137.1 -15.8 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 145.3 -38.5 ... ... ... ... ... @ area : num 0.0116 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] 145.3 145.4 145.1 145.3 -38.5 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 132.6 -11.1 ... ... ... ... ... @ area : num 0.0112 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] 132.6 132.5 132.6 132.6 -11.3 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 148.1 -42.7 ... ... ... ... ... @ area : num 0.0102 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] 148.2 148 148 148.2 -42.7 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 136.2 -13.7 ... ... ... ... ... @ area : num 0.0101 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] 136.3 136.1 136.2 136.3 -13.7 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 115.4 -20.8 ... ... ... ... ... @ area : num 0.0096 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] 115.5 115.3 115.4 115.5 -20.8 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 147.4 -43.2 ... ... ... ... ... @ area : num 0.00929 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] 147.4 147.3 147.4 147.4 -43.3 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... ... @ labpt : num [1:2] 139.5 -17.1 ... ... ... ... ... @ area : num 0.00862 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] 139.6 139.4 139.5 139.6 -17.1 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... ... @ labpt : num [1:2] 145.4 -38.3 ... ... ... ... ... @ area : num 0.00755 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] 145.5 145.3 145.3 145.5 -38.4 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 142.2 -10.7 ... ... ... ... ... @ area : num 0.00748 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] 142.3 142.2 142.1 142.3 -10.7 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 136.4 -11.6 ... ... ... ... ... @ area : num 0.00705 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] 136.5 136.2 136.5 136.5 -11.5 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 125.1 -14.6 ... ... ... ... ... @ area : num 0.00597 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] 125.1 125.1 125.2 125.1 -14.6 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 142.3 -10.2 ... ... ... ... ... @ area : num 0.00544 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ...

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ringDir: int 1 ... . . . . . . . .@ coords : num [1:4, 1:2] 142.3 142.2 142.3 142.3 -10.3 ... . . . . . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] 148.2 -40.5 ... . . . . . . . .@ area : num 0.00522 ... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:4, 1:2] 148.2 148.1 148.2 148.2 -40.6 ... . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] 132.6 -11.7 ... . . . . . . . .@ area : num 0.00511 ... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:4, 1:2] 132.6 132.5 132.6 132.6 -11.7 ... . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] 150.5 -22.3 ... . . . . . . . .@ area : num 0.0049 ... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:4, 1:2] 150.5 150.5 150.6 150.5 -22.4 ... . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] 145 -40.7 ... . . . . . . . .@ area : num 0.00484 ... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:4, 1:2] 144.9 144.9 145 144.9 -40.7 ... . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] 144.8 -40.5 ... . . . . . . . .@ area : num 0.00469 ... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:4, 1:2] 144.8 144.7 144.8 144.8 -40.6 ... . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] 158.9 -54.6 ... . . . . . . . .@ area : num 0.00434 ... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:4, 1:2] 158.9 158.8 159 158.9 -54.7 ... . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] 142.1 -10.1 ... . . . . . . . .@ area : num 0.0043 ... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:4, 1:2] 142.2 142.1 142.1 142.2 -10.2 ... . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] 148.9 -20.1 ... . . . . . . . .@ area : num 0.00404 ... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:4, 1:2] 148.9 148.9 149 148.9 -20.2 ... . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] 144.9 -40.4 ... . . . . . . . .@ area : num 0.00402 ... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:4, 1:2] 144.9 144.8 144.9 144.9 -40.5 ... . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] 136.8 -15.7 ... . . . . . . . .@ area : num 0.00391 ... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:4, 1:2] 136.7 136.7 136.8 136.7 -15.8 ... . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] 136.6 -15.6 ... . . . . . . . .@ area : num 0.00383 ... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:4, 1:2] 136.5 136.6 136.6 136.5 -15.6 ... . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] 149 -20.3 ... . . . . . . . .@ area : num 0.00374 ... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:4, 1:2] 149 149 149 149 -20.3 ... . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] 128 -15 ... . . . . . . . .@ area : num 0.00373 ... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:4, 1:2] 128 128 128 128 -15 ... . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] 128.1 -15.1 ... . . . . . . . .@ area : num 0.0036 ... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:4, 1:2] 128.2 128.1 128.1 128.2 -15.2 ... . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] 136.7 -15.7 ... . . . . . . . .@ area : num 0.00357 ... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:4, 1:2] 136.7 136.6 136.7 136.7 -15.8 ... . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] 146.6 -38.8 ... . . . . . . . .@ area : num 0.00352 ... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:4, 1:2] 146.7 146.5 146.5 146.7 -38.8 ... . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2]

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153.4 -27.2 ... ... ... ... ...@ area : num 0.00343 ... ... ... ... ...@ hole : logi FALSE ... ... ... ...
..@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 153.4 153.5 153.4 153.4 -27.2 ... ... ...
... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 149.9
-22.1 ... ... ... ... ...@ area : num 0.00338 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 149.9 149.9 149.9 149.9 -22.2 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 133.4 -11.6
... ... ... ... ...@ area : num 0.00328 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 133.4 133.5 133.4 -11.7 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 136 -12 ... ... ...
... ...@ area : num 0.00318 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ...
... ...@ coords : num [1:4, 1:2] 136 136 136 136 -12 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 133.5 -11.5 ... ... ... ... ...@ area : num 0.00318
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 133.5 133.4 133.5 133.5 -11.5 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 124.4 -15.3 ... ... ... ... ...@ area : num 0.00305 ... ... ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2]
124.4 124.3 124.4 124.4 -15.3 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 146.8 -19.1 ... ... ... ... ...@ area : num 0.00271 ... ... ...
... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 146.9
146.8 146.9 146.9 -19.2 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 136 -35 ... ... ... ... ...@ area : num 0.00248 ... ... ...
... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 136.2 136.1 136.2
136.2 -35.1 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt
: num [1:2] 129.6 -14.9 ... ... ... ... ...@ area : num 0.00239 ... ... ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ...
... ...@ coords : num [1:4, 1:2] 129.6 129.6 129.5 129.6 -14.9 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 133.6 -32.3 ...
... ... ... ... ...@ area : num 0.00229 ... ... ...
... ... ... ... ...@ hole : logi FALSE ... ... ...
... ...@ ringDir: int 1 ... ... ...
... ...@ coords : num [1:4, 1:2] 133.6 133.5 133.7 133.6 -32.3 ... ... ...
... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 136 -11.7
... ... ... ... ...@ area : num 0.00228 ... ... ...
... ... ... ... ...@ hole : logi FALSE ... ... ...
... ...@ ringDir: int 1 ... ... ...
... ...@ coords : num [1:4, 1:2] 136 136 136.1 136 -11.7 ... ... ... ... ...$ :Formal class 'Polygon'
[package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 135.7 -14.9 ... ... ...
... ...@ area : num 0.00228 ... ... ...
... ... ... ... ...@ hole : logi FALSE ... ... ...
... ...@ ringDir: int 1 ... ... ...
... ...@ coords : num [1:4, 1:2] 135.8 135.7 135.7 135.8 -14.9 ... ... ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ...
... ... ... ... ...@ labpt : num [1:2] 125 -15 ... ... ...
... ... ... ... ...@ area : num 0.00218 ... ...
... ... ... ... ...@ hole : logi FALSE ... ...
... ...@ ringDir: int 1 ... ...
... ...@ coords : num [1:4, 1:2] 125 125 125 -15 ... ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 132.4 -12.1 ... ...
... ... ... ... ...@ area : num 0.00215 ... ...
... ... ... ... ...@ hole : logi FALSE ... ...
... ...@ ringDir: int 1 ... ...
... ...@ coords : num [1:4, 1:2] 132.4
132.3 132.4 132.4 -12.1 ... ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...
... ...@ labpt : num [1:2] 134.5 -33.7 ... ...
... ... ... ... ...@ area : num 0.00203 ... ...
... ... ... ... ...@ hole : logi FALSE ... ...
... ...@ ringDir: int 1 ... ...
... ...@ coords : num [1:4, 1:2] 134.5 134.5
134.5 134.5 -33.8 ... ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...
... ...@ labpt : num [1:2] 148.3 -42.3 ... ...
... ... ... ... ...@ area : num 0.00195 ... ...
... ... ... ... ...@ hole : logi FALSE ... ...
... ...@ ringDir: int 1 ... ...
... ...@ coords : num [1:4, 1:2] 148.3 148.2 148.3
148.3 -42.4 ... ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...
... ...@ labpt : num [1:2] 142.3 -10.6 ... ...
... ... ... ... ...@ area : num 0.00186 ... ...
... ... ... ... ...@ hole : logi FALSE ... ...
... ... ... ...
... ...@ ringDir: int 1 ... ...
... ...@ coords : num [1:4, 1:2] 142.3 142.2 142.3 142.3 -10.6 ...

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... . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2]
113.1 -24.9 . . . . . . .@ area : num 0.0018 . . . . . . .@ hole : logi FALSE . . . . . .
.. @ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 113.1 113.1 113.1 -24.9 . . . .
... .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] 136.9
-15.6 . . . . . . .@ area : num 0.00177 . . . . . . .@ hole : logi FALSE . . . . . .
@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 136.9 136.8 136.9 136.9 -15.6 . . . .
$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] 126.5 -13.9
. . . . . . .@ area : num 0.00156 . . . . . . .@ hole : logi FALSE . . . . . .
@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 126.6 126.5 126.5 126.6 -13.9 . . . .
$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] 134.9 -12.1 . . . .
. . . . . . .@ area : num 0.00152 . . . . . . .@ hole : logi FALSE . . . . . .
@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 134.9 134.9 134.9 134.9 -12.1 . . . .
$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] 151.3 -23.8 . . . .
. . . . . . .@ area : num 0.00143 . . . . . . .@ hole : logi FALSE . . . . . .
@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 151.4 151.3 151.3 151.4 -23.9 . . . .
$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] 135 -12 . . . . . .
. . . . . . .@ area : num 0.00126 . . . . . . .@ hole : logi FALSE . . . . . .
@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 135 135 135 -12 . . . .
$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] 150.3 -21.8 . . . .
. . . . . . .@ area : num 0.00124 . . . . . .
. . . . . . .@ hole : logi FALSE . . . . . .
@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 150.3 150.3 150.4 150.3 -21.8 . . . .
$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] 159.1 -31.6 . . . .
. . . . . . .@ area : num 0.00119 . . . . . .
. . . . . . .@ hole : logi FALSE . . . . . .
@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 159.1 159.1 159.1 159.1 -31.5 . . . .
$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] 136.6 -11.8 . . . .
. . . . . . .@ area : num 0.00116 . . . . . .
. . . . . . .@ hole : logi FALSE . . . . . .
@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 136.6 136.5 136.6 136.6 -11.8 . . . .
$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] 147.3 -39.5 . . . .
. . . . . . .@ area : num 0.00113 . . . . . .
. . . . . . .@ hole : logi FALSE . . . . . .
@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 147.4 147.3 147.3 147.4 -39.5 . . . .
$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] 149.7 -22.4 . . . .
. . . . . . .@ area : num 0.0011 . . . . . .
. . . . . . .@ hole : logi FALSE . . . . . .
@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 149.7 149.7 149.8 149.7 -22.4 . . . .
$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] 139.1 -16.8 . . . .
. . . . . . .@ area : num 0.00105 . . . . . .
. . . . . . .@ hole : logi FALSE . . . . . .
@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 139.1 139.1 139.1 139.1 -16.9 . . . .
$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] 124.8 -15.3 . . . .
. . . . . . .@ area : num 0.00102 . . . . . .
. . . . . . .@ hole : logi FALSE . . . . . .
@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 124.8 124.8 124.8 -15.3 . . . .
$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] 135.1 -11.9 . . . .
. . . . . . .@ area : num 0.000989 . . . . . .
. . . . . . .@ hole : logi FALSE . . . . . .
@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 135.1 135 135.1 135.1 -11.9 . . . .
$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] 136.5 -11.9 . . . .
. . . . . . .@ area : num 0.000979 . . . . . .
. . . . . . .@ hole : logi FALSE . . . . . .
@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 136.5 136.5 136.5 136.5 -11.9 . . . .
$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] 150.3 -21.7 . . . .
. . . . . . .@ area : num 0.000907 . . . . . .
. . . . . . .@ hole : logi FALSE . . . . . .
@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 150.3 150.3 150.3 150.3 -21.7 . . . .
$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] 136.5 -35.2 . . . .
. . . . . . .@ area :

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num 0.000873 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ...
..@ coords : num [1:4, 1:2] 136.5 136.4 136.5 136.5 -35.2 ... ... ... ... ...$. :Formal class 'Polygon'
[package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 142.2 -10.6 ... ... ... ... ...@ area :
num 0.000854 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ...
..@ coords : num [1:4, 1:2] 142.2 142.2 142.2 142.2 -10.6 ... ... ... ... ...$. :Formal class 'Polygon'
[package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 148 -20 ... ... ... ...@ area : num
0.000845 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ...
..@ coords : num [1:4, 1:2] 148 148 148 148 -20 ... ... ... ...$. :Formal class 'Polygon' [package "sp"]
with 5 slots ... ... ... ... ...@ labpt : num [1:2] 137.4 -34.5 ... ... ... ...@ area : num 0.000833 ... ...
... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2]
137.4 137.3 137.4 137.4 -34.5 ... ... ... ...$. :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 115.7 -32.2 ... ... ... ...@ area : num 0.000823 ... ... ...
...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 115.7
115.7 115.6 115.7 -32.2 ... ... ... ...$. :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 136.8 -12.1 ... ... ... ...@ area : num 0.000812 ... ... ...
...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 136.8
136.8 136.8 136.8 -12.1 ... ... ... ...$. :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 151 -23.2 ... ... ... ...@ area : num 0.000787 ... ... ...
...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 151 150.9 151
151 -23.2 ... ... ... ...$. :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ...
...@ labpt : num [1:2] 129.6 -14.8 ... ... ... ...@ area : num 0.00074 ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 129.6 129.6 129.6 129.6 -14.9 ...
... ... ... ...$. :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2]
149.1 -20.5 ... ... ... ...@ area : num 0.000695 ... ... ... ...@ hole : logi FALSE ... ...
... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 149.1 149 149.1 149.1 -20.5 ...
... ... ...$. :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 123.2
-34.1 ... ... ... ...@ area : num 0.000586 ... ... ... ...@ hole : logi FALSE ... ...
... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 123.2 123.2 123.2 123.2 -34.1 ...
... ... ... ...$. :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 118.5 -34.9
... ... ... ... ...@ area : num 0.000547 ... ... ... ...@ hole : logi FALSE ... ...
... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 118.5 118.4 118.5 118.5 -34.9 ...
... ... ... ... ...$. :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 153 -25.3 ...
... ... ... ... ...@ area : num 0.000506 ... ... ... ... ...@ hole : logi FALSE ... ...
... ... ... ... ...@ ringDir: int 1 ... ... ... ...
... ... ... ... ...@ coords : num [1:4, 1:2] 153 152.9 153 153 -25.3 ... ... ... ...$. :Formal class 'Polygon'
[package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 136.1 -13.5 ... ... ... ...@ area :
num 0.000501 ... ... ... ... ...@ hole : logi FALSE ... ...
... ... ... ... ...@ ringDir: int 1 ... ...
... ... ... ... ...@ coords : num [1:4, 1:2] 136.2 136.2 136.1 136.2 -13.5 ... ... ... ...$. :Formal class 'Polygon'
[package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 142.3 -10.5 ... ...
... ... ... ... ...@ area : num 0.000479 ... ...
... ... ... ... ...@ hole : logi FALSE ... ...
... ... ... ... ...@ ringDir: int 1 ... ...
... ... ... ... ...@ coords : num [1:4, 1:2] 142.3 142.3 142.3 142.3 -10.5 ... ...
... ... ... ... ...$. :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ... ... ...@ labpt : num [1:2] 147.3 -39.5 ... ...
... ... ... ... ...@ area : num 0.000435 ... ...
... ... ... ... ...@ hole : logi FALSE ... ...
... ... ... ... ...@ ringDir: int 1 ... ...
... ... ... ... ...@ coords : num [1:4, 1:2] 147.3 147.3 147.3 147.3 -39.5 ... ...
... ... ... ... ...$. :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ... ... ...@ labpt : num [1:2] 122.2 -34.1 ... ...
... ... ... ... ...@ area : num 0.000401 ... ...
... ... ... ... ...@ hole : logi FALSE ... ...
... ... ... ... ...@ ringDir: int 1 ... ...
... ... ... ... ...@ coords : num [1:4, 1:2] 122.2 122.2 122.3 122.2 -34.2 ... ...
... ... ... ... ...$. :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ... ... ...@ labpt : num [1:2] 113.1 -25.2 ... ...
... ... ... ... ...@ area : num 0.000184 ... ...
... ... ... ... ...@ hole : logi FALSE ... ...
... ... ... ... ...@ ringDir: int 1 ... ...

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coords : num [1:4, 1:2] 113.1 113.1 113.1 113.1 -25.2 ... ... ... ...@ plotOrder: int [1:97] 1 2 3 4 5 6
7 8 9 10 ... ... ... ...@ labpt : num [1:2] 134.4 -25.6 ... ... ... ...@ ID : chr "AUS" ... ... ... ...@ area : num
696 ...$ :Formal class 'Polygons' [package "sp"] with 5 slots ... ... ... ...@ Polygons :List of 6 ... ...
... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 50.5 26
... ... ... ... ...@ area : num 0.0205 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir:
int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 50.5 50.6 50.5 50.5 26.2 ... ... ... ... ...$ :Formal class
'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 50.8 25.7 ... ... ... ...
...@ area : num 0.00287 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ...
... ... ... ...@ coords : num [1:4, 1:2] 50.8 50.7 50.8 50.8 25.6 ... ... ... ... ...$ :Formal class 'Polygon'
[package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 50.6 26.3 ... ... ... ... ...@ area : num
0.00075 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords :
num [1:4, 1:2] 50.7 50.6 50.6 50.7 26.2 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with
5 slots ... ... ... ... ...@ labpt : num [1:2] 50.8 25.7 ... ... ... ... ...@ area : num 0.000224 ...
... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2]
50.8 50.8 50.8 50.8 25.6 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] 50.8 25.7 ... ... ... ... ...@ area : num 4.56e-05 ...
... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2]
50.8 50.8 50.8 50.8 25.7 ... ... ... ... ...@ area : num 2.73e-05 ...
... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 50.8 50.8 50.8 50.8 25.7 ...
... ... ... ...@ plotOrder: int [1:6] 1 2 3 4 5 6 ... ... ... ...@ labpt : num [1:2] 50.5 26 ...
... ... ... ...@ ID : chr "BHR"
... ... ... ...@ area : num 0.0244 ... ...$ :Formal class 'Polygons' [package "sp"] with 5 slots ...
... ... ... ...@ Polygons :List of 1 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -59.5 13.2 ...
... ... ... ... ...@ area : num 0.0208 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -59.5 -59.6 -59.4 -59.5 13.1
... ... ... ... ...@ plotOrder: int 1 ...
... ... ... ...@ labpt : num [1:2] -59.5 13.2 ...
... ... ... ...@ ID : chr "BRB"
... ... ... ...@ area : num 0.0208 ...
... ... ... ...$ :Formal class 'Polygons' [package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] -64.8 32.3 ...
... ... ... ...@ area : num 0.00389 ...
... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -64.8 -64.9 -64.7 -64.8 32.3
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -64.7 32.4 ...
... ... ... ... ...@ area : num 0.000332 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -64.6 -64.7 -64.7 -64.6 32.4 ...
... ... ... ... ...@ plotOrder: int [1:3] 1 2 3 ...
... ... ... ...@ labpt : num [1:2] -64.8 32.3 ...
... ... ... ...@ ID : chr "BMU"
... ... ... ...@ area : num 0.00468 ...
... ... ... ...$ :Formal class 'Polygons' [package "sp"] with 5 slots ...
... ... ... ... ...@ Polygons :List of 28 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -78 24.6 ...
... ... ... ... ...@ area : num 0.253 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:6, 1:2] -78.2 -77.7 -78 -78.4 -78.2 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -77.3 26.4 ...
... ... ... ... ...@ area : num 0.157 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:7, 1:2] -77.7 -77 -77.2 -77.4 -77.1 ...
... ... ... ... ...$ :Formal class
'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -78.5 26.6 ...
... ... ... ... ...@ area : num 0.116 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -77.9 -78.7 -79 -77.9 26.7 ...
... ... ... ... ...$ :Formal class 'Polygon' [package
"sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -77.7 24 ...
... ... ... ... ...@ area : num 0.0711 ...

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... . . . . . @ hole : logi FALSE ... . . . . . . . . . @ ringDir: int 1 . . . . . . . . . @ coords : num [1:6,
1:2] -77.7 -77.6 -77.6 -77.9 -77.7 . . . . . . . . . $ :Formal class 'Polygon' [package "sp"] with 5 slots
. . . . . . . . . @ labpt : num [1:2] -75.5 24.3 . . . . . . . . . @ area : num 0.0639 . . . . . . . . . @
hole : logi FALSE . . . . . . . . . @ ringDir: int 1 . . . . . . . . . @ coords : num [1:4, 1:2] -75.3
-75.5 -75.7 -75.3 24.2 . . . . . . . . . $ :Formal class 'Polygon' [package "sp"] with 5 slots . . . . .
. . . . . @ labpt : num [1:2] -73.2 21.1 . . . . . . . . . @ area : num 0.0613 . . . . . . . . . @ hole : logi
FALSE . . . . . . . . . @ ringDir: int 1 . . . . . . . . . @ coords : num [1:4, 1:2] -73 -73.7 -73 -73
21.1 . . . . . . . . . $ :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . . . . @ labpt : num
[1:2] -74 22.5 . . . . . . . . . @ area : num 0.0496 . . . . . . . . . @ hole : logi FALSE . . . . . .
. . . . . @ ringDir: int 1 . . . . . . . . . @ coords : num [1:4, 1:2] -73.8 -73.9 -74.3 -73.8 22.7 . . . .
. . . . . $ :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . . . . @ labpt : num [1:2] -76.4 25.2
. . . . . . . . . @ area : num 0.0354 . . . . . . . . . @ hole : logi FALSE . . . . . . . . . @ ringDir:
int 1 . . . . . . . . . @ coords : num [1:9, 1:2] -76.5 -76.3 -76.1 -76.2 -76.2 . . . . . . . . . $ :Formal
class 'Polygon' [package "sp"] with 5 slots . . . . . . . . . @ labpt : num [1:2] -75.1 23.2 . . . . .
. . . . . @ area : num 0.0184 . . . . . . . . . @ hole : logi FALSE . . . . . . . . . @ ringDir: int 1 . . . .
. . . . . @ coords : num [1:4, 1:2] -75 -75.3 -74.8 -75 23.1 . . . . . . . . . $ :Formal class 'Polygon'
[package "sp"] with 5 slots . . . . . . . . . @ labpt : num [1:2] -72.9 22.3 . . . . . . . . . @ area : num
0.0167 . . . . . . . . . @ hole : logi FALSE . . . . . . . . . @ ringDir: int 1 . . . . . . . . . @ coords
: num [1:4, 1:2] -72.8 -72.8 -73.2 -72.8 22.4 . . . . . . . . . $ :Formal class 'Polygon' [package "sp"]
with 5 slots . . . . . . . . . @ labpt : num [1:2] -74.1 22.7 . . . . . . . . . @ area : num 0.012 . . . .
. . . . . @ hole : logi FALSE . . . . . . . . . @ ringDir: int 1 . . . . . . . . . @ coords : num [1:4, 1:2]
-74.1 -74.3 -74 -74.1 22.7 . . . . . . . . . $ :Formal class 'Polygon' [package "sp"] with 5 slots . . .
. . . . . @ labpt : num [1:2] -75.9 23.6 . . . . . . . . . @ area : num 0.00614 . . . . . . . . . @ hole :
logi FALSE . . . . . . . . . @ ringDir: int 1 . . . . . . . . . @ coords : num [1:4, 1:2] -75.8 -76 -76
-75.8 23.5 . . . . . . . . . $ :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . . . . @ labpt :
num [1:2] -74.5 24.1 . . . . . . . . . @ area : num 0.00561 . . . . . . . . . @ hole : logi FALSE . . .
. . . . . @ ringDir: int 1 . . . . . . . . . @ coords : num [1:4, 1:2] -74.5 -74.5 -74.5 -74.5 24 . . .
. . . . . $ :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . . . . @ labpt : num [1:2] -73 21.5
. . . . . . . . . @ area : num 0.00484 . . . . . . . . . @ hole : logi FALSE . . . . . . . . . @ ringDir:
int 1 . . . . . . . . . @ coords : num [1:4, 1:2] -72.9 -73 -73.1 -72.9 21.5 . . . . . . . . . $ :Formal
class 'Polygon' [package "sp"] with 5 slots . . . . . . . . . @ labpt : num [1:2] -77.9 24.2 . . . . .
. . . . . @ area : num 0.00448 . . . . . . . . . @ hole : logi FALSE . . . . . . . . . @ ringDir: int 1 . . .
. . . . . @ coords : num [1:4, 1:2] -77.9 -78 -77.8 -77.9 24.1 . . . . . . . . . $ :Formal class 'Polygon'
[package "sp"] with 5 slots . . . . . . . . . @ labpt : num [1:2] -77.4 25 . . . . . . . . . @ area : num
0.00432 . . . . . . . . . @ hole : logi FALSE . . . . . . . . . @ ringDir: int 1 . . . . . . . . . @ coords
: num [1:4, 1:2] -77.4 -77.6 -77.3 -77.4 25 . . . . . . . . . $ :Formal class 'Polygon' [package "sp"]
with 5 slots . . . . . . . . . @ labpt : num [1:2] -74.9 23.7 . . . . . . . . . @ area : num 0.00373 . .
. . . . . @ hole : logi FALSE . . . . . . . . . @ ringDir: int 1 . . . . . . . . . @ coords : num [1:4,
1:2] -74.8 -74.8 -74.9 -74.8 23.7 . . . . . . . . . $ :Formal class 'Polygon' [package "sp"] with 5 slots
. . . . . . . . . @ labpt : num [1:2] -78 24.3 . . . . . . . . . @ area : num 0.00229 . . . . . . . . . @
hole : logi FALSE . . . . . . . . . @ ringDir: int 1 . . . . . . . . . @ coords : num [1:4, 1:2] -77.9
-78 -77.9 -77.9 24.2 . . . . . . . . . $ :Formal class 'Polygon' [package "sp"] with 5 slots . . . . .
. . . . . @ labpt : num [1:2] -77.7 24.3 . . . . . . . . . @ area : num 0.00209 . . . . . . . . . @ hole : logi
FALSE . . . . . . . . . @ ringDir: int 1 . . . . . . . . . @ coords : num [1:4, 1:2] -77.7 -77.8 -77.7
-77.7 24.3 . . . . . . . . . $ :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . . . . @ labpt :
num [1:2] -74.3 22.6 . . . . . . . . . @ area : num 0.00194 . . . . . . . . . @ hole : logi FALSE . .
. . . . . @ ringDir: int 1 . . . . . . . . . @ coords : num [1:4, 1:2] -74.4 -74.4 -74.3 -74.4 22.5 . .
. . . . . $ :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . . . . @ labpt : num [1:2]

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-73.7 23.1 ... ... ... ... ...@ area : num 0.00162 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -73.7 -73.7 -73.7 23.1 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -76.5 24.2 ... ... ... ... ...@ area : num 0.0011 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -76.5 -76.5 -76.5 24.2 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -77.6 26.3 ... ... ... ... ...@ area : num 0.00105 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -77.6 -77.6 -77.5 26.3 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -75.6 23.4 ... ... ... ... ...@ area : num 0.00102 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -75.6 -75.5 -75.7 -75.6 23.4 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -77.9 25.8 ... ... ... ... ...@ area : num 0.000989 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -77.8 -77.9 -77.9 -77.8 25.7 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -76.4 24.1 ... ... ... ... ...@ area : num 0.000845 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -76.4 -76.3 -76.4 -76.4 24.1 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -73.5 22.6 ... ... ... ... ...@ area : num 0.000571 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -73.5 -73.6 -73.5 -73.5 22.6 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -73.6 22.6 ... ... ... ... ...@ area : num 0.000299 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -73.6 -73.6 -73.6 -73.6 22.6 ... ... ... ... ...@ plotOrder: int [1:28] 1 2 3 4 5 6 7 8 9 10 ... ... ... ... ...@ labpt : num [1:2] -78 24.6 ... ... ... ...@ ID : chr "BHS" ... ... ...@ area : num 0.897 ...$ :Formal class 'Polygons' [package "sp"] with 5 slots ... ... ... ...@ Polygons :List of 35 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 90.3 23.9 ... ... ... ... ...@ area : num 11.5 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:45, 1:2] 88.4 89.3 89.7 89.8 92.4 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 90.7 22.4 ... ... ... ... ...@ area : num 0.11 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:8, 1:2] 90.8 90.6 90.7 90.6 90.6 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 91.1 22.3 ... ... ... ... ...@ area : num 0.0278 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 91 91.1 91.2 91 22.1 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 91.9 21.6 ... ... ... ... ...@ area : num 0.013 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 91.9 91.9 92 91.9 21.5 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 90.6 22.8 ... ... ... ... ...@ area : num 0.0107 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:5, 1:2] 90.5 90.5 90.7 90.5 90.5 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 91.5 22.5 ... ... ... ... ...@ area : num 0.0107 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 91.5 91.4 91.4 91.5 22.3 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 90.6 23 ... ... ... ... ...@ area : num 0.0094 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:6, 1:2] 90.7 90.6 90.7 90.5 90.6 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 90.5 22.1 ... ... ... ... ...@ area : num 0.00706 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 90.5 90.5 90.6 90.5 22 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 90.2 22.1 ... ... ...

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...@ area : num 0.00473 ... @ hole : logi TRUE ... @ ringDir: int -1 ...  
...@ coords : num [1:4, 1:2] 90.2 90.1 90.2 90.2 22.2 ... \$ :Formal class 'Polygon'  
[package "sp"] with 5 slots ... @ labpt : num [1:2] 90.4 22 ... @ area : num  
0.00466 ... @ hole : logi FALSE ... @ ringDir: int 1 ... @ coords : num  
[1:4, 1:2] 90.4 90.4 90.5 90.4 21.9 ... \$ :Formal class 'Polygon' [package "sp"] with  
5 slots ... @ labpt : num [1:2] 91.9 21.8 ... @ area : num 0.00369 ...  
... @ hole : logi FALSE ... @ ringDir: int 1 ... @ coords : num [1:4, 1:2] 91.8  
91.9 91.9 91.8 21.7 ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ...  
... @ labpt : num [1:2] 89.1 21.8 ... @ area : num 0.0033 ... @ hole : logi  
FALSE ... @ ringDir: int 1 ... @ coords : num [1:4, 1:2] 89.1 89.1 89.1 89.1  
21.7 ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... @ labpt : num  
[1:2] 90.5 21.9 ... @ area : num 0.0028 ... @ hole : logi FALSE ...  
... @ ringDir: int 1 ... @ coords : num [1:4, 1:2] 90.5 90.5 90.6 90.5 21.9 ... \$ :Formal class  
'Polygon' [package "sp"] with 5 slots ... @ labpt : num [1:2] 90.6 22.4 ...  
... @ area : num 0.00216 ... @ hole : logi FALSE ... @ ringDir:  
int 1 ... @ coords : num [1:4, 1:2] 90.7 90.6 90.6 90.7 22.4 ... \$ :Formal class  
'Polygon' [package "sp"] with 5 slots ... @ labpt : num [1:2] 91 22.3 ...  
... @ area : num 0.00179 ... @ hole : logi FALSE ... @ ringDir: int 1 ...  
... @ coords : num [1:4, 1:2] 90.9 91 91 90.9 22.2 ... \$ :Formal class 'Polygon'  
[package "sp"] with 5 slots ... @ labpt : num [1:2] 90.5 23.3 ... @ area : num 0.0015 ...  
... @ hole : logi FALSE ... @ ringDir: int 1 ... @ coords : num [1:4,  
1:2] 90.5 90.6 90.4 90.5 23.3 ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ...  
... @ labpt : num [1:2] 90.9 22.2 ... @ area : num 0.00124 ... @ hole : logi  
FALSE ... @ ringDir: int 1 ... @ coords : num [1:4, 1:2] 90.9 90.9 91  
90.9 22.1 ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... @ labpt : num  
[1:2] 90.5 23 ... @ area : num 0.00124 ... @ hole : logi FALSE ...  
... @ ringDir: int 1 ... @ coords : num [1:4, 1:2] 90.5 90.5 90.5 90.5 23 ... \$ :Formal class  
'Polygon' [package "sp"] with 5 slots ... @ labpt : num [1:2] 91.2 22.4 ...  
... @ area : num 0.00103 ... @ hole : logi FALSE ... @ ringDir:  
int 1 ... @ coords : num [1:4, 1:2] 91.2 91.2 91.2 91.2 22.4 ... \$ :Formal class  
'Polygon' [package "sp"] with 5 slots ... @ labpt : num [1:2] 91 22.2 ...  
... @ area : num 0.000695 ... @ hole : logi FALSE ... @ ringDir: int 1 ...  
... @ coords : num [1:4, 1:2] 91 91 91 91 22.2 ... \$ :Formal class 'Polygon'  
[package "sp"] with 5 slots ... @ labpt : num [1:2] 90.6 21.9 ... @ area : num 0.000526 ...  
... @ hole : logi FALSE ... @ ringDir: int 1 ... @ coords : num [1:4,  
1:2] 90.6 90.6 90.7 90.6 21.9 ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ...  
... @ labpt : num [1:2] 90.4 22 ... @ area : num 0.000525 ... @ hole : logi FALSE ...  
... @ ringDir: int 1 ... @ coords : num [1:4, 1:2] 90.4 90.3 90.4  
90.4 22 ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... @ labpt : num  
[1:2] 91 22.4 ... @ area : num 0.00052 ... @ hole : logi FALSE ...  
... @ ringDir: int 1 ... @ coords : num [1:4, 1:2] 91 91 91 91 22.4 ... \$ :Formal class  
'Polygon' [package "sp"] with 5 slots ... @ labpt : num [1:2] 91 22.4 ...  
... @ area : num 0.00046 ... @ hole : logi FALSE ... @ ringDir: int 1 ...  
... @ coords : num [1:4, 1:2] 91 91 91 91 22.4 ... \$ :Formal class 'Polygon'  
[package "sp"] with 5 slots ... @ labpt : num [1:2] 90.7 22.4 ... @ area : num  
0.000366 ... @ hole : logi FALSE ... @ ringDir: int 1 ... @ coords : num  
[1:4, 1:2] 90.7 90.6 90.7 90.7 22.4 ... \$ :Formal class 'Polygon' [package "sp"]  
with 5 slots ... @ labpt : num [1:2] 91.3 22.6 ... @ area : num 0.000349 ...

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... . . . . .@ hole : logi FALSE ... . . . . . . .@ ringDir: int 1 ... . . . . . . .@ coords : num [1:4,
1:2] 91.3 91.3 91.3 91.3 22.6 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ...
... . . . . .@ labpt : num [1:2] 91 22.4 ... . . . . . .@ area : num 0.000338 ... . . . . . . .@ hole
: logi FALSE ... . . . . . . .@ ringDir: int 1 ... . . . . . . .@ coords : num [1:4, 1:2] 91 91 91 91
22.4 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . .@ labpt : num
[1:2] 90.4 21.8 ... . . . . . . .@ area : num 0.000335 ... . . . . . . .@ hole : logi FALSE ... . . .
... . . . . .@ ringDir: int 1 ... . . . . . . .@ coords : num [1:4, 1:2] 90.4 90.4 90.5 90.4 21.8 ... . . .
... . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . .@ labpt : num [1:2] 90.7 23.5
... . . . . . . .@ area : num 0.000325 ... . . . . . . .@ hole : logi TRUE ... . . . . . . .@ ringDir:
int -1 ... . . . . . . .@ coords : num [1:4, 1:2] 90.7 90.7 90.7 90.7 23.5 ... . . . . . . .$. :Formal class
'Polygon' [package "sp"] with 5 slots ... . . . . . . .@ labpt : num [1:2] 90.7 22 ... . . . . . . .@ area
: num 0.000236 ... . . . . . . .@ hole : logi FALSE ... . . . . . . .@ ringDir: int 1 ... . . . . . . .@ coords
: num [1:4, 1:2] 90.7 90.7 90.7 90.7 22 ... . . . . . . .$. :Formal class 'Polygon' [package
"sp"] with 5 slots ... . . . . . . .@ labpt : num [1:2] 90.8 21.9 ... . . . . . . .@ area : num 0.000202
... . . . . . . .@ hole : logi FALSE ... . . . . . . .@ ringDir: int 1 ... . . . . . . .@ coords : num
[1:4, 1:2] 90.8 90.7 90.8 90.8 21.9 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5
slots ... . . . . . . .@ labpt : num [1:2] 90.6 23.6 ... . . . . . . .@ area : num 0.000152 ... . . . .
... . . . . .@ hole : logi FALSE ... . . . . . . .@ ringDir: int 1 ... . . . . . . .@ coords : num [1:4, 1:2] 90.6
90.6 90.6 90.6 23.6 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . .
... . . . . .@ labpt : num [1:2] 90.5 21.8 ... . . . . . . .@ area : num 0.000144 ... . . . . . . .@ hole : logi
FALSE ... . . . . . . .@ ringDir: int 1 ... . . . . . . .@ coords : num [1:4, 1:2] 90.5 90.5 90.5 90.5
21.8 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . .@ labpt : num
[1:2] 90.5 23.1 ... . . . . . . .@ area : num 0.000128 ... . . . . . . .@ hole : logi FALSE ... . . .
... . . . . .@ ringDir: int 1 ... . . . . . . .@ coords : num [1:4, 1:2] 90.5 90.5 90.5 90.5 23 ... . . .
... . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . .@ labpt : num [1:2] 90.5 22.2
... . . . . . . .@ area : num 8.89e-05 ... . . . . . . .@ hole : logi FALSE ... . . . . . . .@ ringDir:
int 1 ... . . . . . . .@ coords : num [1:4, 1:2] 90.5 90.5 90.5 90.5 22.2 ... . . . . . . .@ plotOrder:
int [1:35] 1 2 3 4 5 6 7 8 9 10 ... . . . . . . .@ labpt : num [1:2] 90.3 23.9 ... . . . . . . .@ ID : chr
"BGD" ... . . . . . . .@ area : num 11.8 ... . . . :Formal class 'Polygons' [package "sp"] with 5 slots ... . . .
... . . . . .@ Polygons :List of 6 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . .
... . . . . .@ labpt : num [1:2] -88.7 17.2 ... . . . . . . .@ area : num 1.86 ... . . . . . . .@ hole : logi FALSE
... . . . . . . .@ ringDir: int 1 ... . . . . . . .@ coords : num [1:9, 1:2] -88.4 -88.3 -88.1 -88.3 -88.2
... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . .@ labpt : num [1:2] -87.9 17.4
... . . . . . . .@ area : num 0.00645 ... . . . . . . .@ hole : logi FALSE ... . . . . . . .@ ringDir:
int 1 ... . . . . . . .@ coords : num [1:4, 1:2] -87.8 -87.9 -87.8 -87.8 17.4 ... . . . . . . .$. :Formal
class 'Polygon' [package "sp"] with 5 slots ... . . . . . . .@ labpt : num [1:2] -87.9 18 ... . . . .
... . . . . .@ area : num 0.00421 ... . . . . . . .@ hole : logi FALSE ... . . . . . . .@ ringDir: int 1 ... .
... . . . . .@ coords : num [1:4, 1:2] -87.9 -88 -87.9 -87.9 18 ... . . . . . . .$. :Formal class 'Polygon'
[package "sp"] with 5 slots ... . . . . . . .@ labpt : num [1:2] -88.1 17.7 ... . . . . . . .@ area : num
0.00124 ... . . . . . . .@ hole : logi FALSE ... . . . . . . .@ ringDir: int 1 ... . . . . . . .@ coords
: num [1:4, 1:2] -88.1 -88.2 -88.1 -88.1 17.7 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"]
with 5 slots ... . . . . . . .@ labpt : num [1:2] -87.8 17.3 ... . . . . . . .@ area : num 0.00118 ...
... . . . . . . .@ hole : logi FALSE ... . . . . . . .@ ringDir: int 1 ... . . . . . . .@ coords : num [1:4,
1:2] -87.8 -87.8 -87.8 -87.8 17.3 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots
... . . . . . . .@ labpt : num [1:2] -88.1 17.6 ... . . . . . . .@ area : num 0.000393 ... . . . .
... . . . . . . .@ hole : logi FALSE ... . . . . . . .@ ringDir: int 1 ... . . . . . . .@ coords : num [1:4, 1:2] -88 -88.1
-88.1 -88 17.6 ... . . . . . . .@ plotOrder: int [1:6] 1 2 3 4 5 6 ... . . . . . . .@ labpt : num [1:2] -88.7 17.2
... . . . . . . .@ ID : chr "BLZ" ... . . . . . . .@ area : num 1.87 ... . . . :Formal class 'Polygons' [package "sp"]

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with 5 slots ... ... ...@ Polygons :List of 1 ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 17.8 44.1 ... ... ... ... ...@ area : num 5.99 ... ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:15, 1:2] 17.6 17.6 16.1 15.8 18.3 ... ... ... ... ...@ plotOrder: int 1 ... ... ... ...@ labpt : num [1:2] 17.8 44.1 ... ... ... ...@ ID : chr "BIH" ... ... ...@ area : num 5.99 ...\$ :Formal class 'Polygons' [package "sp"] with 5 slots ... ... ... ...@ Polygons :List of 1 ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -64.6 -16.7 ... ... ... ... ...@ area : num 92.2 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:50, 1:2] -65.2 -65.7 -66.2 -67.2 -67.9 ... ... ... ...@ plotOrder: int 1 ... ... ... ...@ labpt : num [1:2] -64.6 -16.7 ... ... ... ...@ ID : chr "BOL" ... ... ...@ area : num 92.2 ...\$ :Formal class 'Polygons' [package "sp"] with 5 slots ... ... ... ...@ Polygons :List of 44 ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 96.5 21.2 ... ... ... ... ...@ area : num 57.3 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:89, 1:2] 97.8 98.3 98.7 98.8 98.7 ... ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 93.7 19.2 ... ... ... ... ...@ area : num 0.0426 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 93.8 93.9 93.5 93.8 19.2 ... ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 94.5 16 ... ... ... ... ...@ area : num 0.0355 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:5, 1:2] 94.6 94.4 94.4 94.6 94.6 ... ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 93.8 19.4 ... ... ... ... ...@ area : num 0.0334 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ... ...@ coords : num [1:4, 1:2] 93.8 93.7 94 93.8 19.3 ... ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 98.4 12.5 ... ... ... ... ...@ area : num 0.0243 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 98.3 98.3 98.5 98.3 12.3 ... ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 98.5 12 ... ... ... ... ...@ area : num 0.0205 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 98.5 98.4 98.4 98.7 98.5 11.9 ... ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 98.5 11.7 ... ... ... ... ...@ area : num 0.0197 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 98.5 98.4 98.5 98.5 11.6 ... ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 98.2 10.8 ... ... ... ... ...@ area : num 0.0192 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 98.2 98.3 98.1 98.2 10.9 ... ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 93.6 18.8 ... ... ... ... ...@ area : num 0.0186 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ... ...@ coords : num [1:4, 1:2] 93.7 93.7 93.5 93.7 18.9 ... ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 97.6 16.4 ... ... ... ... ...@ area : num 0.0127 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 97.6 97.5 97.6 97.6 16.2 ... ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 98.3 11.6 ... ... ... ... ...@ area : num 0.0115 ... ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 98.2 98.3 98.2 98.3 11.4 ... ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 98.2 9.96 ... ... ... ... ...@ area : num 0.00972 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 98.3 98.1 98.2 98.3 10 ... ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 93.5 19.9 ... ... ... ... ...@ area : num 0.00645 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 93.5 93.4 93.5 93.5 19.7 ... ... ... ... ...\$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 94.8 15.9 ...

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... . . . . . . .@ area : num 0.00572 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir:
int 1 . . . . . . .@ coords : num [1:4, 1:2] 94.8 94.7 94.8 94.8 15.8 . . . . . . .$. :Formal class
'Polygon' [package "sp"] with 5 slots . . . . . . .@ labpt : num [1:2] 98 12.3 . . . . . . .@ area :
num 0.00507 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . . . . . .@ coords :
num [1:4, 1:2] 98.1 98 97.9 98.1 12.4 . . . . . . .$. :Formal class 'Polygon' [package
"sp"] with 5 slots . . . . . . .@ labpt : num [1:2] 98.1 12.2 . . . . . . .@ area : num 0.0047 .
. . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . . . . . .@ coords : num [1:4,
1:2] 98.1 98.1 98.1 98.1 12.1 . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots . .
. . . . . . .@ labpt : num [1:2] 98.6 12.4 . . . . . . .@ area : num 0.00434 . . . . . . .@ hole :
logi FALSE . . . . . . .@ ringDir: int 1 . . . . . . .@ coords : num [1:6, 1:2] 98.6 98.7 98.6
98.5 98.6 . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . .@ labpt :
num [1:2] 98 11.7 . . . . . . .@ area : num 0.00432 . . . . . . .@ hole : logi FALSE . . . .
. . . . . . .@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 98.1 98 98 98.1 11.6 . . . .
. $. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . .@ labpt : num [1:2] 98.5 11
. . . . . . .@ area : num 0.00418 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir:
int 1 . . . . . . .@ coords : num [1:4, 1:2] 98.5 98.5 98.5 98.5 11 . . . . . . .$. :Formal class
'Polygon' [package "sp"] with 5 slots . . . . . . .@ labpt : num [1:2] 93 20 . . . . . . .@ area :
num 0.00414 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . . . . . .@ coords :
num [1:4, 1:2] 93 92.9 93 93 19.8 . . . . . . .$. :Formal class 'Polygon' [package "sp"]
with 5 slots . . . . . . .@ labpt : num [1:2] 98.3 13.1 . . . . . . .@ area : num 0.00377 . . .
. . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2]
98.3 98.3 98.2 98.3 13 . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots . . .
. . . . . . .@ labpt : num [1:2] 98.2 10.1 . . . . . . .@ area : num 0.00316 . . . . . . .@ hole :
logi FALSE . . . . . . .@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 98.2 98.2 98.2 98.2
10 . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . .@ labpt : num
[1:2] 98.5 10.8 . . . . . . .@ area : num 0.00264 . . . . . . .@ hole : logi FALSE . . . . .
. . . . . . .@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 98.5 98.5 98.6 98.5 10.8 . . .
. $. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . .@ labpt : num [1:2] 97.9 10.4 .
. . . . . . .@ area : num 0.00174 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir:
int 1 . . . . . . .@ coords : num [1:4, 1:2] 97.9 97.9 97.9 97.9 10.4 . . . . . . .$. :Formal class
'Polygon' [package "sp"] with 5 slots . . . . . . .@ labpt : num [1:2] 98.5 12.4 . . . . . . .
. . . . . . .@ area : num 0.00161 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . .
. . . . . . .@ coords : num [1:4, 1:2] 98.5 98.5 98.5 98.5 12.4 . . . . . . .$. :Formal class
'Polygon' [package "sp"] with 5 slots . . . . . . .@ labpt : num [1:2] 98.3 11.3 . . . . . . .@ area :
num 0.00134 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . . . . . .@ coords :
num [1:4, 1:2] 98.3 98.2 98.3 98.3 11.2 . . . . . . .$. :Formal class 'Polygon' [package "sp"]
with 5 slots . . . . . . .@ labpt : num [1:2] 98.3 12.5 . . . . . . .@ area : num 0.00126 . . .
. . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 98.3
98.2 98.2 98.3 12.5 . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots . . .
. . . . . . .@ labpt : num [1:2] 97.9 10.9 . . . . . . .@ area : num 0.00123 . . . . . . .@ hole :
logi FALSE . . . . . . .@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 97.9 97.9 97.9 97.9
10.9 . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . .@ labpt : num
[1:2] 98.2 10.5 . . . . . . .@ area : num 0.00112 . . . . . . .@ hole : logi FALSE . . . .
. . . . . . .@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 98.2 98.2 98.2 98.2 10.5 . . .
. . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . .@ labpt : num [1:2] 97.7 11.9 .
. . . . . . .@ area : num 0.00103 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir:
int 1 . . . . . . .@ coords : num [1:4, 1:2] 97.7 97.6 97.7 97.7 11.8 . . . . . . .$. :Formal class
'Polygon' [package "sp"] with 5 slots . . . . . . .@ labpt : num [1:2] 97.9 12.8 . . . . . . .

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... .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 166.8
-11.6 ... . . . . .@ area : num 0.00611 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] 166.9 166.8 166.9 166.9 -11.7 ... . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 156.56 -8.08
... . . . . .@ area : num 0.0055 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] 156.6 156.5 156.5 156.6 -8.2 ... . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 157.57 -8.75 ... . . .
... . . . .@ area : num 0.00524 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...
... . . . .@ coords : num [1:4, 1:2] 157.63 157.62 157.44 157.63 -8.75 ... . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 158.4 -7.63 ... . . .
... . . . .@ area : num 0.0048 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...
... . . . .@ coords : num [1:4, 1:2] 158.53 158.36 158.31 158.53 -7.65 ... . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 158.19 -8.77 ...
... . . . .@ area : num 0.00444 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...
... . . . .@ coords : num [1:4, 1:2] 158.21 158.15 158.21 158.21 -8.83 ... . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 157.2 -8.2 ...
... . . . .@ area : num 0.00434 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...
... . . . .@ coords : num [1:4, 1:2] 157.21 157.09 157.18 157.21 -8.27 ... . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 157.1 -8.26 ...
... . . . .@ area : num 0.00359 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...
... . . . .@ coords : num [1:4, 1:2] 157.12 157.15 157.02 157.12 -8.26 ... . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 158.35 -7.52 ...
... . . . .@ area : num 0.00346 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...
... . . . .@ coords : num [1:4, 1:2] 158.43 158.37 158.26 158.43 -7.53 ... . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 157.74 -7.43 ...
... . . . .@ area : num 0.00305 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...
... . . . .@ coords : num [1:4, 1:2] 157.78 157.68 157.75 157.78 -7.48 ... . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 166.5 -11.3 ...
... . . . .@ area : num 0.00244 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...
... . . . .@ coords : num [1:4, 1:2] 166.5 166.5 166.6 166.5 -11.4 ... . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 161.96 -9.74 ...
... . . . .@ area : num 0.0024 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...
... . . . .@ coords : num [1:4, 1:2] 161.97 161.94 161.97 161.97 -9.85 ... . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 156.09 -6.92 ...
... . . . .@ area : num 0.0024 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...
... . . . .@ coords : num [1:4, 1:2] 156.11 156.08 156.07 156.11 -6.94 ... . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 159.2 -9.09 ...
... . . . .@ area : num 0.00233 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...
... . . . .@ coords : num [1:4, 1:2] 159.2 159.17 159.23 159.2 -9.13 ... . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 155.56 -7.36 ...
... . . . .@ area : num 0.00219 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...
... . . . .@ coords : num [1:4, 1:2] 155.59 155.51 155.58 155.59 -7.39 ... . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 160.08 -8.99 ...
... . . . .@ area : num 0.00154 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...
... . . . .@ coords : num [1:4, 1:2] 160 160 160 160 -9 ... . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 161.7 -10.3 ...
... . . . .@ area : num 0.00145 ...
... . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...
... . . . .@ coords : num [1:4, 1:2] 161.8 161.7 161.8 161.8 -10.3 ...
... . . . .$. :Formal class 'Polygon' [package "sp"] with

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5 slots ... ... ... ... ...@ labpt : num [1:2] 156.8 -8.09 ... ... ... ... ...@ area : num 0.00131 ... ...
... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4,
1:2] 156.84 156.78 156.78 156.84 -8.12 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with
5 slots ... ... ... ... ...@ labpt : num [1:2] 159.83 -9.14 ... ... ... ... ...@ area : num 0.000827 ... ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4,
1:2] 159.83 159.81 159.85 159.83 -9.17 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with
5 slots ... ... ... ... ...@ labpt : num [1:2] 158.55 -7.69 ... ... ... ... ...@ area : num 0.000649 ... ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num
[1:4, 1:2] 158.6 158.5 158.5 158.6 -7.7 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with
5 slots ... ... ... ... ...@ labpt : num [1:2] 156.02 -6.81 ... ... ... ... ...@ area : num 0.000628 ... ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4,
1:2] 156.02 156 156.05 156.02 -6.82 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5
slots ... ... ... ... ...@ labpt : num [1:2] 159.8 -11.3 ... ... ... ... ...@ area : num 0.000588 ... ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2]
159.9 159.8 159.8 159.9 -11.3 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 161.04 -8.76 ... ... ... ... ...@ area : num 0.000578 ... ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2]
161.04 161.01 161.06 -8.75 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 162.5 -10.8 ... ... ... ... ...@ area : num 0.000565 ... ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2]
162.5 162.5 162.5 -10.9 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 160.03 -8.89 ... ... ... ... ...@ area : num 0.000409 ... ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2]
160.05 160.01 160.03 160.05 -8.92 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 159.37 -5.43 ... ... ... ... ...@ area : num 0.000318 ... ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2]
159.4 159.37 159.37 159.35 159.4 -5.45 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 159.7 -5.5 ... ... ... ... ...@ area : num 0.000163 ... ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2]
159.71 159.71 159.72 159.71 -5.52 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 159.51 -5.48 ... ... ... ... ...@ area : num 0.000155 ... ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2]
159.5 159.5 159.5 159.5 -5.5 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 167.2 -9.95 ... ... ... ... ...@ area : num 0.000144 ... ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2]
167.2 167.19 167.21 167.2 -9.96 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 167.12 -9.87 ... ... ... ... ...@ area : num 0.000126 ... ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2]
167.13 167.11 167.13 167.13 -9.88 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 162.74 -8.38 ... ... ... ... ...@ area : num 0.00011 ... ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2]
162.74 162.76 162.73 162.74 -8.37 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 167.1 -9.85 ... ... ... ... ...@ area : num 8.62e-05 ... ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2]
167.1 167.09 167.11 167.1 -9.85 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 161.38 -9.46 ... ... ... ... ...@ area : num 4.43e-05 ... ...
... ... ... ... ...@ hole : logi TRUE ... ... ... ... ...@ ringDir: int -1 ... ... ... ... ...@ coords : num [1:4, 1:2]
161.39 161.39 161.38 161.39 -9.47 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2]

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159.25 -5.31 ... ... ... ... ...@ area : num 3.81e-05 ... ... ... ... ...@ hole : logi FALSE ... ... ...
... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 159.25 159.25 159.25 159.25 -5.31 ...
... ... ...@ plotOrder: int [1:50] 1 2 3 4 5 6 7 8 9 10 ... ... ... ...@ labpt : num [1:2] 160.17 -9.63 ...
... ... ...@ ID : chr "SLB" ... ... ...@ area : num 1.17 ...$ :Formal class 'Polygons' [package "sp"]
with 5 slots ... ... ...@ Polygons :List of 62 ... ... ...$ :Formal class 'Polygon' [package "sp"] with
5 slots ... ... ... ... ...@ labpt : num [1:2] -53.1 -10.9 ... ... ... ... ...@ area : num 701 ...
... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:237, 1:2]
-60.1 -60.1 -59.7 -59.6 -60 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] -49.71 -0.936 ... ... ... ... ...@ area : num 2.96 ...
... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:11, 1:2] -49.7 -48.4
-48.6 -49.2 -50.6 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] -51.511 -0.977 ... ... ... ... ...@ area : num 0.323 ...
... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:11, 1:2] -51.9 -52 -51.9
-51.7 -51.6 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] -50.0044 0.0882 ... ... ... ... ...@ area : num 0.0928 ...
... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -49.636 -49.985 -50.393
-49.636 0.228 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] -49.6266 -0.0428 ... ... ... ... ...@ area : num 0.0343 ...
... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -49.526 -49.853
-49.502 -49.526 -0.134 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] -51.006 -0.742 ... ... ... ... ...@ area : num 0.0299 ...
... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -51.132 -51.07
-50.816 -51.132 -0.959 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] -50.81 -0.19 ... ... ... ... ...@ area : num 0.0275 ...
... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -50.5569
-50.8578 -51.0272 -50.5569 -0.0625 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5
slots ...
... ... ... ...@ labpt : num [1:2] -50.442 0.353 ... ... ... ... ...@ area : num 0.025 ...
... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -50.416 -50.536 -50.374 -50.416 0.211 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] -50.203 0.501 ...
... ... ... ...@ area : num 0.0239 ...
... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -50.238 -50.308 -50.064 -50.238 0.351 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] -52.05 -1.54 ...
... ... ... ...@ area : num 0.0204 ...
... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:5, 1:2]
-52 -52.2 -52 -51.9 -52 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] -45.3 -23.9 ...
... ... ... ...@ area : num 0.0196 ...
... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ...
... ... ... ...@ coords : num [1:4, 1:2] -45.2 -45.2 -45.4
-45.2 -23.8 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] -48.5 -27.5 ...
... ... ... ...@ area : num 0.0186 ...
... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ...
... ... ... ...@ coords : num [1:4, 1:2] -48.6 -48.5 -48.4 -48.6 -27.8 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] -51.3 -1.1 ...
... ... ... ...@ area : num 0.0174 ...
... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ...
... ... ... ...@ coords : num [1:7, 1:2] -51.4 -51.4 -51.4 -51.2 -51.2 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] -51 -1.91 ...
... ... ... ...@ area : num 0.0169 ...
... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ...
... ... ... ...@ coords : num [1:4, 1:2] -50.86 -50.99 -51.15 -50.86 -1.91 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] -51.207 -0.297 ...
... ... ... ...@ area : num 0.0165 ...
... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int

```

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1 ... . . . . . . . .@ coords : num [1:4, 1:2] -51.381 -51.103 -51.138 -51.381 -0.485 ... . . . . . . . .
:$ :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . . . .@ labpt : num [1:2] -48.6 -26.3
. . . . . . . . .@ area : num 0.016 . . . . . . . . .@ hole : logi FALSE . . . . . . . . .@ ringDir:
int 1 . . . . . . . . .@ coords : num [1:4, 1:2] -48.6 -48.7 -48.5 -48.6 -26.4 . . . . . . . . .$. :Formal
class 'Polygon' [package "sp"] with 5 slots . . . . . . . . .@ labpt : num [1:2] -50.42 2.01 . . . .
. . . . . . . . .@ area : num 0.0157 . . . . . . . . .@ hole : logi FALSE . . . . . . . . .@ ringDir: int 1 .
. . . . . . . . .@ coords : num [1:4, 1:2] -50.4 -50.51 -50.36 -50.4 1.88 . . . . . . . . $. :Formal class
'Polygon' [package "sp"] with 5 slots . . . . . . . . .@ labpt : num [1:2] -50.5213 0.0983 . . . .
. . . . . . . . .@ area : num 0.015 . . . . . . . . .@ hole : logi FALSE . . . . . . . . .@ ringDir: int 1 . . . .
. . . . . . . . .@ coords : num [1:4, 1:2] -50.4556 -50.6433 -50.465 -50.4556 -0.0228 . . . . . . . . $. :Formal
class 'Polygon' [package "sp"] with 5 slots . . . . . . . . .@ labpt : num [1:2] -39 -13.5 . . . . . . . .
. . . . . . . . .@ area : num 0.0144 . . . . . . . . .@ hole : logi FALSE . . . . . . . . .@ ringDir: int 1 . . . .
. . . . . . . . .@ coords : num [1:7, 1:2] -38.9 -39 -39 -39 -39 . . . . . . . . $. :Formal class 'Polygon' [package
"sp"] with 5 slots . . . . . . . . .@ labpt : num [1:2] -44.2 -23.1 . . . . . . . . .@ area : num 0.0143
. . . . . . . . .@ hole : logi FALSE . . . . . . . . .@ ringDir: int 1 . . . . . . . . .@ coords : num
[1:4, 1:2] -44.1 -44.4 -44.2 -44.1 -23.2 . . . . . . . . $. :Formal class 'Polygon' [package "sp"] with
5 slots . . . . . . . . .@ labpt : num [1:2] -51.03 -0.392 . . . . . . . . .@ area : num 0.0139 . . .
. . . . . . . . .@ hole : logi FALSE . . . . . . . . .@ ringDir: int 1 . . . . . . . . .@ coords : num
[1:4, 1:2] -51.11 -51.03 -50.95 -51.11 -0.54 . . . . . . . . $. :Formal class 'Polygon' [package "sp"] with
5 slots . . . . . . . . .@ labpt : num [1:2] -48.38 -1.14 . . . . . . . . .@ area : num 0.0129 . . .
. . . . . . . . .@ hole : logi FALSE . . . . . . . . .@ ringDir: int 1 . . . . . . . . .@ coords : num [1:5,
1:2] -48.3 -48.5 -48.4 -48.3 -48.3 . . . . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots
. . . . . . . . .@ labpt : num [1:2] -50.159 0.838 . . . . . . . . .@ area : num 0.0122 . . . .
. . . . . . . . .@ hole : logi FALSE . . . . . . . . .@ ringDir: int 1 . . . . . . . . .@ coords : num [1:4, 1:2]
-50.007 -50.268 -50.201 -50.007 0.882 . . . . . . . . $. :Formal class 'Polygon' [package "sp"] with
5 slots . . . . . . . . .@ labpt : num [1:2] -48.97 -1.69 . . . . . . . . .@ area : num 0.0119 . . .
. . . . . . . . .@ hole : logi FALSE . . . . . . . . .@ ringDir: int 1 . . . . . . . . .@ coords : num [1:4, 1:2]
-49 -49 -48.9 -49 -1.8 . . . . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots . . . .
. . . . . . . . .@ labpt : num [1:2] -44.55 -2.85 . . . . . . . . .@ area : num 0.0113 . . . . . . . .@ hole :
logi FALSE . . . . . . . . .@ ringDir: int 1 . . . . . . . . .@ coords : num [1:4, 1:2] -44.59 -44.58
-44.48 -44.59 -3.05 . . . . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots . . . .
. . . . . . . . .@ labpt : num [1:2] -38.7 -13 . . . . . . . . .@ area : num 0.011 . . . . . . . .@ hole : logi
FALSE . . . . . . . . .@ ringDir: int 1 . . . . . . . . .@ coords : num [1:4, 1:2] -38.8 -38.6 -38.6
-38.8 -13.1 . . . . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . . .@ labpt :
num [1:2] -51.055 -0.977 . . . . . . . . .@ area : num 0.0109 . . . . . . . .@ hole : logi FALSE
. . . . . . . . .@ ringDir: int 1 . . . . . . . . .@ coords : num [1:7, 1:2] -51 -50.9 -51 -51 -51.1 .
. . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . . . .@ labpt : num [1:2]
-47.8 -24.9 . . . . . . . . .@ area : num 0.00977 . . . . . . . . .@ hole : logi FALSE . . . .
. . . . . . . . .@ ringDir: int 1 . . . . . . . . .@ coords : num [1:4, 1:2] -47.9 -47.8 -47.6 -47.9 -25 . . .
. . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . . . .@ labpt : num [1:2] -44.72 -1.63
. . . . . . . . .@ area : num 0.00933 . . . . . . . . .@ hole : logi FALSE . . . . . . . . .@ ringDir:
int 1 . . . . . . . . .@ coords : num [1:6, 1:2] -44.7 -44.7 -44.8 -44.8 -44.7 . . . . . . . . $. :Formal
class 'Polygon' [package "sp"] with 5 slots . . . . . . . . .@ labpt : num [1:2] -50.871 -0.446 . . .
. . . . . . . . .@ area : num 0.00918 . . . . . . . . .@ hole : logi FALSE . . . . . . . . .@ ringDir: int 1 . .
. . . . . . . . .@ coords : num [1:4, 1:2] -50.959 -50.878 -50.777 -50.959 -0.567 . . . . . . . . $. :Formal
class 'Polygon' [package "sp"] with 5 slots . . . . . . . . .@ labpt : num [1:2] -46.489 -0.969 . . .
. . . . . . . . .@ area : num 0.00861 . . . . . . . . .@ hole : logi FALSE . . . . . . . . .@ ringDir: int 1 .
. . . . . . . . .@ coords : num [1:6, 1:2] -46.5 -46.5 -46.5 -46.5 -46.4 . . . . . . . . $. :Formal class

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'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -50.8096 0.0124 ... ...
... ... ...@ area : num 0.00849 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ...@ coords : num [1:4, 1:2] -50.9017 -50.8297 -50.6975 -50.9017 -0.0475 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -52.34 -1.47 ...
... ... ... ...@ area : num 0.00839 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ...@ coords : num [1:4, 1:2] -52.42 -52.43 -52.17 -52.42 -1.53 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -49.1 -1.8 ... ...
... ...@ area : num 0.00763 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ...@ coords : num [1:4, 1:2] -49.02 -49.16 -49.06 -49.02 -1.83 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -50.82 -0.315 ... ...
... ...@ area : num 0.00694 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ...@ coords : num [1:4, 1:2] -50.803 -50.908 -50.749 -50.803 -0.359 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -44.95 -1.32 ...
... ...@ area : num 0.00675 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ...@ coords : num [1:4, 1:2] -45 -45 -44.9 -45 -1.4 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -47.678 -0.647 ... ...
... ...@ area : num 0.00663 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ...@ coords : num [1:6, 1:2] -47.7 -47.7 -47.7 -47.7 -47.6 ... ...
... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -45.65 -1.28 ...
... ... ... ...@ area : num 0.00601 ...
... ... ... ...@ hole : logi FALSE ... ...
... ... ... ...@ ringDir: int 1 ...
... ... ... ...@ coords : num [1:4, 1:2] -45.63 -45.69 -45.63 -45.63 -1.35 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ... ...@ labpt : num [1:2] -50.01 0.99 ...
... ... ... ...@ area : num 0.00529 ...
... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ...
... ... ... ...@ coords : num [1:4, 1:2] -50.009 -50.074 -49.948 -50.009 0.935 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ... ...@ labpt : num [1:2] -50.17 0.291 ...
... ... ... ...@ area : num 0.00489 ...
... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ...
... ... ... ...@ coords : num [1:4, 1:2] -50.243 -50.184 -50.084 -50.243 0.229 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ... ...@ labpt : num [1:2] -47.93 -0.683 ...
... ... ... ...@ area : num 0.00476 ...
... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ...
... ... ... ...@ coords : num [1:6, 1:2] -47.9 -48 -48 -47.9 -47.9 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ... ...@ labpt : num [1:2] -48.3 -25.4 ...
... ... ... ...@ area : num 0.00467 ...
... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ...
... ... ... ...@ coords : num [1:4, 1:2] -48.3 -48.3 -48.3 -48.3 -25.5 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ... ...@ labpt : num [1:2] -50.895 -0.767 ...
... ... ... ...@ area : num 0.00464 ...
... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ...
... ... ... ...@ coords : num [1:4, 1:2] -50.92 -50.923 -50.843 -50.92 -0.845 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ... ...@ labpt : num [1:2] -50.47 2.17 ...
... ... ... ...@ area : num 0.00445 ...
... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ...
... ... ... ...@ coords : num [1:4, 1:2] -50.48 -50.52 -50.41 -50.48 2.12 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ... ...@ labpt : num [1:2] -42.1 -2.71 ...
... ... ... ...@ area : num 0.00428 ...
... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ...
... ... ... ...@ coords : num [1:4, 1:2] -42.05 -42.18 -42.07 -42.05 -2.76 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ... ...@ labpt : num [1:2] -48.56 -1.44 ...
... ... ... ...@ area : num 0.00416 ...
... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ...
... ... ... ...@ coords : num [1:4, 1:2] -48.53 -48.59 -48.55 -48.53 -1.52 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ... ...@ labpt : num [1:2] -51.351 -0.498 ...
... ... ... ...@ area : num 0.00372 ...
... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ...
... ... ... ...@ coords : num [1:4, 1:2] -51.403 -51.411 -51.239 -51.403 -0.541 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
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... ... ..@ labpt : num [1:2] -38.9 -13.6 ... ... ... ... ...@ area : num 0.00348 ... ... ... ... ...@ hole :
logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -38.9 -39 -38.9
-38.9 -13.7 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt :
num [1:2] -50.94 -0.292 ... ... ... ... ...@ area : num 0.00343 ... ... ... ... ...@ hole : logi FALSE
... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -50.907 -51.025 -50.889
-50.907 -0.336 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt :
num [1:2] -46.3 -24 ... ... ... ... ...@ area : num 0.00316 ... ... ... ... ...@ hole : logi FALSE
... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -46.3 -46.4 -46.3 -46.3 -24
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2]
-48.66 -1.44 ... ... ... ... ...@ area : num 0.00301 ... ... ... ... ...@ hole : logi FALSE ... ... ... ...
...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -48.63 -48.7 -48.66 -48.63 -1.48 ... ... ...
...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -44.63
-2.96 ... ... ... ... ...@ area : num 0.00274 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir:
int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -44.61 -44.66 -44.61 -44.61 -3.01 ... ... ...
...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -51.058
-0.618 ... ... ... ... ...@ area : num 0.00265 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir:
int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -51.051 -51.098 -51.025 -51.051 -0.659 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2]
-37.1 -11.1 ... ... ... ... ...@ area : num 0.00222 ... ... ... ... ...@ hole : logi FALSE ... ... ...
...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -37.1 -37.1 -37 -37.1 -11.1 ...
...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -50.058
0.908 ... ... ... ... ...@ area : num 0.000862 ... ... ... ... ...@ hole : logi FALSE ... ... ...
...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -50.038 -50.094 -50.042 -50.038 0.884 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2]
-32.42 -3.86 ... ... ... ... ...@ area : num 0.000634 ... ... ... ... ...@ hole : logi FALSE ... ...
...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -32.45 -32.42 -32.39 -32.45 -3.88 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2]
-43.68 -2.31 ... ... ... ... ...@ area : num 0.000566 ... ... ... ... ...@ hole : logi FALSE ... ...
...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -43.69 -43.74 -43.62 -43.69 -2.33 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -30.3
-20.5 ... ... ... ... ...@ area : num 0.000561 ... ... ... ... ...@ hole : logi FALSE ... ...
...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -30.3 -30.3 -30.3 -20.5 ...
...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -45.1 -23.8 ...
... ... ... ...@ area : num 0.000328 ... ... ... ... ...@ hole : logi FALSE ... ...
...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -45.1 -45.1 -45.1 -45.1 -23.8 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -34.88 -7.06 ...
... ... ... ...@ area : num 0.00019 ... ... ... ... ...@ hole : logi FALSE ... ...
...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -34.87 -34.89 -34.87 -34.87 -7.07 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -34.9 -7 ...
... ... ... ...@ area : num 7.21e-05 ... ... ... ... ...@ hole : logi FALSE ... ...
...@ ringDir: int 1 ... ...
... ... ... ...@ coords : num [1:4, 1:2] -34.85 -34.86 -34.86 -34.85 -7.01 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -29.8 -20.5 ...
... ... ... ...@ area : num 5.06e-05 ... ... ... ... ...@ hole : logi FALSE ... ...
...@ ringDir: int 1 ...
... ... ... ...@ coords : num [1:4, 1:2] -29.8 -29.8 -29.9 -29.8 -20.5 ...
... ... ... ...@ plotOrder: int [1:62] 1
2 3 4 5 6 7 8 9 10 ...
... ... ... ...@ labpt : num [1:2] -53.1 -10.9 ...
... ... ... @ ID : chr "BRA" ...
... ... ...@ area : num 705 ...
...$ :Formal class 'Polygons' [package "sp"] with 5 slots ...
... ... ... ...@ Polygons :List of 1 ...
... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] 25.3 42.7 ...
... ... ... ...@ area : num 12.1 ...
... ... ... ...@ hole : logi FALSE ...
... ...

```



... . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -99.4 75.8 ... . . . . . .@ area : num 4.35 ... . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 ... . . . . . .@ coords : num [1:27, 1:2] -98.4 -97.5 -97.9 -97.4 -97.3 ... . . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -102 78.6 ... . . . . . .@ area : num 4.12 ... . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 ... . . . . . .@ coords : num [1:23, 1:2] -103.6 -102.6 -101.6 -100 -99.5 ... . . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -125.7 49.7 ... . . . . . .@ area : num 3.55 ... . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 ... . . . . . .@ coords : num [1:25, 1:2] -127 -125 -125 -124 -124 ... . . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -78.7 73.2 ... . . . . . .@ area : num 3.1 ... . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 ... . . . . . .@ coords : num [1:7, 1:2] -80.1 -77.4 -76.1 -79.4 -80.9 ... . . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -97.3 69.1 ... . . . . . .@ area : num 2.84 ... . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 ... . . . . . .@ coords : num [1:10, 1:2] -97.4 -95.2 -96.5 -99.6 -98.4 ... . . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -96.7 78.3 ... . . . . . .@ area : num 1.88 ... . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 ... . . . . . .@ coords : num [1:12, 1:2] -96.8 -94.9 -95.4 -94.9 -97.1 ... . . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -76.1 67.8 ... . . . . . .@ area : num 1.86 ... . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 ... . . . . . .@ coords : num [1:8, 1:2] -75.6 -75 -75.2 -76.7 -77.2 ... . . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -94.8 75.2 ... . . . . . .@ area : num 1.84 ... . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 ... . . . . . .@ coords : num [1:6, 1:2] -94.4 -93.5 -93.5 -96.6 -95.7 ... . . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -111.6 77.7 ... . . . . . .@ area : num 1.46 ... . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 ... . . . . . .@ coords : num [1:8, 1:2] -110 -111 -110 -110 -112 ... . . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -105.6 73.4 ... . . . . . .@ area : num 1.13 ... . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 ... . . . . . .@ coords : num [1:5, 1:2] -105 -104 -105 -107 -105 ... . . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -60.8 46.2 ... . . . . . .@ area : num 1.01 ... . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 ... . . . . . .@ coords : num [1:12, 1:2] -60.4 -60.6 -60.4 -61.1 -60.4 ... . . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -83.1 62.6 ... . . . . . .@ area : num 0.922 ... . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 ... . . . . . .@ coords : num [1:6, 1:2] -81.9 -83.1 -83.7 -83.9 -83.3 ... . . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -132.4 53.7 ... . . . . . .@ area : num 0.777 ... . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 ... . . . . . .@ coords : num [1:19, 1:2] -133 -132 -133 -132 -132 ... . . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -134.9 69.2 ... . . . . . .@ area : num 0.77 ... . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 ... . . . . . .@ coords : num [1:24, 1:2] -134 -134 -135 -135 -135 ... . . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -111 78.5 ... . . . . . .@ area : num 0.715 ... . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 ... . . . . . .@ coords : num [1:5, 1:2] -110 -109 -113 -111 -110 ... . . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -63 49.4 ... . . . . . .@ area : num 0.585 ... . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 ... . . . . . .@ coords : num [1:5, 1:2] -62.1 -61.7 -63.1 -64.5 -62.1 ... . . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -94.6 77.6 ... . . . . . .@ area : num 0.579 ... . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 ... . . . . . .@ coords :

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num [1:5, 1:2] -95.4 -93.1 -93.6 -96.3 -95.4 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"]
with 5 slots ... ... ... ... ...@ labpt : num [1:2] -63.3 46.4 ... ... ... ... ...@ area : num 0.576 ... ...
... ... ... ... @ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:11,
1:2] -64 -63.7 -63.6 -63.2 -62 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ..
... ... ... ... @ labpt : num [1:2] -79.8 62 ... ... ... ... ...@ area : num 0.494 ... ... ... ... ...@ hole
: logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:6, 1:2] -79.5 -79.3
-79.7 -80.3 -80 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...
@ labpt : num [1:2] -79.4 56.2 ... ... ... ... ...@ area : num 0.345 ... ... ... ... ...@ hole : logi FALSE ..
... ... ... ... @ ringDir: int 1 ... ... ... ... ...@ coords : num [1:15, 1:2] -79 -78.9 -78.9 -79.2 -79 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2]
-118.4 75.8 ... ... ... ... ...@ area : num 0.293 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...
@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -118.3 -119.4 -117.5 -118.3 75.6 ... ... ...
...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -81.3 53
... ... ... ... ...@ area : num 0.276 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int
1 ... ... ... ... ...@ coords : num [1:4, 1:2] -81.1 -80.7 -82.1 -81.1 53.2 ... ... ... ... ...$ :Formal class
'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -132 52.9 ... ... ... ... ...
@ area : num 0.244 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ...
... ...@ coords : num [1:12, 1:2] -132 -132 -132 -132 ... ... ... ... ...$ :Formal class 'Polygon' [package
"sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -105.2 77.4 ... ... ... ... ...@ area : num 0.244 ..
... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:5,
1:2] -105 -104 -105 -106 -105 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ..
... ... ... ... ...@ labpt : num [1:2] -104.2 75.2 ... ... ... ... ...@ area : num 0.242 ... ... ...
... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:5, 1:2] -104 -105
-104 -104 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...
@ labpt : num [1:2] -128.8 52.9 ... ... ... ... ...@ area : num 0.241 ... ... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:12, 1:2] -129 -129 -129 -129 -129 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -104
76.5 ... ... ... ... ...@ area : num 0.22 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir:
int 1 ... ... ... ... ...@ coords : num [1:5, 1:2] -104 -103 -104 -105 -104 ... ... ... ... ...$ :Formal class
'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -99.4 79.9 ... ... ...
... ...@ area : num 0.194 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ...
... ...@ coords : num [1:4, 1:2] -99.5 -98.6 -100.2 -99.5 80.1 ... ... ... ... ...$ :Formal class 'Polygon'
[package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -78 63.3 ... ... ... ... ...@ area : num
0.192 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ...
... ...@ coords : num [1:5, 1:2] -78.1 -77.5 -77.9 -78.6 -78.1 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"]
with 5 slots ... ... ... ... ...@ labpt : num [1:2] -90.5 77.5 ... ... ... ... ...@ area : num 0.191 ...
... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ...
... ...@ coords : num [1:4, 1:2] -90.6 -89.6 -91.2 -90.6 77.6 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -78.7 69.1 ... ... ... ... ...@ area : num 0.189 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ...
... ...@ coords : num [1:5, 1:2] -78.4 -78.8 -79.4 -78.4 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -93.3 63.9 ... ... ... ... ...@ area : num 0.174 ...
... ... ... ... ...@ hole : logi TRUE .. ...
... ... ... ... ...@ ringDir: int -1 ... ...
... ...@ coords : num [1:4, 1:2] -93.5 -92.5 -93.8 -93.5 63.8 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ...
... ...@ labpt : num [1:2] -80.1 69.7 ... ...
... ...@ area : num 0.173 ... ...
... ...@ hole : logi FALSE ... ...
... ...@ ringDir: int 1 ... ...
... ...@ coords : num [1:4, 1:2] -79.4 -80 -80.8 -79.4 69.8 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ...@ labpt : num [1:2] -83.9 65.9 ...
... ... ... ... ...@ area : num 0.167 ...
... ... ... ... ...@ hole : logi FALSE ... ...
... ... ... ... ...@ ringDir: int 1

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... ... ... @ coords : num [1:10, 1:2] -83.9 -83.7 -83.7 -83.2 -83.8 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] -86.7 68 ... ... ... ... ... @ area : num 0.165 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:5, 1:2] -86.4 -86.6 -87 -86.7 -86.4 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] -103.5 76.1 ... ... ... ... ... @ area : num 0.149 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] -102.5 -103.3 -104.5 -102.5 76.2 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] -74.1 68 ... ... ... ... ... @ area : num 0.144 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] -74.2 -73.3 -74.8 -74.2 68.1 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] -98.7 73.9 ... ... ... ... ... @ area : num 0.128 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] -98.9 -99.4 -97.6 -98.9 73.8 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] -90.1 76.7 ... ... ... ... ... @ area : num 0.122 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] -89.9 -90.6 -89.7 -89.9 76.5 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] -129.8 53.6 ... ... ... ... ... @ area : num 0.0955 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:8, 1:2] -130 -130 -130 -130 -130 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] -101.7 77.8 ... ... ... ... ... @ area : num 0.0938 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] -101.7 -100.9 -102.5 -101.7 77.9 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] -114.3 77.9 ... ... ... ... ... @ area : num 0.0932 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] -114 -114 -115 -114 78 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] -96.6 75.5 ... ... ... ... ... @ area : num 0.088 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] -95.9 -96.9 -97.1 -95.9 75.6 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] -65 61.5 ... ... ... ... ... @ area : num 0.0878 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] -64.7 -64.9 -65.5 -64.7 61.5 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] -114.1 76.8 ... ... ... ... ... @ area : num 0.0874 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] -113.5 -113.9 -113.5 76.8 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] -75.1 68.5 ... ... ... ... ... @ area : num 0.0756 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] -74.8 -75.4 -75 -74.8 68.3 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] -127.6 52.2 ... ... ... ... ... @ area : num 0.0742 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] -128 -128 -127 -128 52 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] -78.3 69.6 ... ... ... ... ... @ area : num 0.0691 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] -77.9 -78.9 -78.2 -77.9 69.6 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] -95.7 69.5 ... ... ... ... ... @ area : num 0.0688 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:8, 1:2] -95.5 -95.5 -95.7 -95.7 -95.8 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] -68.1 60.4 ... ... ... ... ... @ area : num 0.0634 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] -68.3 -68.1 -67.8 -68.3 60.2 ... ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] -84.8 65.7 ... ... ... ... ... @ area : num

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0.0634 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords
: num [1:4, 1:2] -84.7 -85.2 -84.6 -84.7 65.5 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"]
with 5 slots ... ... ... ... ...@ labpt : num [1:2] -130.1 53.4 ... ... ... ... ...@ area : num 0.0614 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num
[1:4, 1:2] -129.9 -129.8 -130.5 -129.9 53.4 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"]
with 5 slots ... ... ... ... ...@ labpt : num [1:2] -79.3 75.9 ... ... ... ... ...@ area : num 0.0581 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:5,
1:2] -78.9 -79.8 -78.8 -79.2 -78.9 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots
... ... ... ... ...@ labpt : num [1:2] -101.9 68.7 ... ... ... ... ...@ area : num 0.056 ... ... ... ... ...@ hole
: logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -101.8
-102.3 -101.7 -101.8 68.6 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ... ...@ labpt : num [1:2] -71.9 70.9 ... ... ... ... ...@ area : num 0.0535 ... ... ... ... ...@ hole
: logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -71.5 -72 -72.2
-71.5 71 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt
: num [1:2] -100.5 68.9 ... ... ... ... ...@ area : num 0.053 ... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -100.2 -100.6 -100.6 68.8 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2]
-103 76 ... ... ... ... ...@ area : num 0.0517 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir
: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -102.4 -102.3 -104 -102.4 76.1 ... ... ... ... ...$ :
Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -94.6 75.9 ...
... ... ... ... ...@ area : num 0.0487 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -94.4 -94.9 -94.5 -94.4 75.8 ... ... ... ... ...$ :Formal
class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -101.1 76.6 ... ...
... ... ... ... ...@ area : num 0.0464 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -101.4 -101.7 -100.2 -101.4 76.6 ... ... ... ... ...$ :Formal
class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -126.8 49.8 ...
... ... ... ... ...@ area : num 0.0462 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:6, 1:2] -127 -127 -127 -127 -127 ... ... ... ... ...$ :Formal class 'Polygon'
[package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -70.7 62.8 ... ... ... ... ...@ area : num
0.0458 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords
: num [1:4, 1:2] -70.7 -70.2 -71.2 -70.7 62.8 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"]
with 5 slots ... ... ... ... ...@ labpt : num [1:2] -96.8 73 ... ... ... ... ...@ area : num 0.0433 ...
... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2]
-96.8 -97.1 -96.6 -96.8 72.9 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -78.8 68.6 ... ... ... ... ...@ area : num 0.0411 ... ... ... ... ...@ hole
: logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -78.5 -79 -78.9
-78.5 68.6 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt
: num [1:2] -61.8 47.4 ... ... ... ... ...@ area : num 0.0406 ... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -61.4 -62 -61.9 -61.4 47.6 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2]
-76.9 63.6 ... ... ... ... ...@ area : num 0.0391 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir
: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -76.8 -76.5 -77.5 -76.8 63.6 ... ... ... ... ...$ :
Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -102.8 75.8 ...
... ... ... ... ...@ area : num 0.038 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int
1 ... ... ... ... ...@ coords : num [1:4, 1:2] -103.1 -103.4 -102 -103.1 75.7 ... ... ... ... ...$ :Formal
class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -96.3 69.5 ...
... ... ... ... ...@ area : num 0.0377 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -96.7 -96.1 -96.2 -96.7 69.6 ... ... ... ... ...$ :Formal class 'Polygon'
```

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[package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -87 70.1 ... ... ... ... ...@ area : num
0.0377 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords
: num [1:4, 1:2] -87.1 -86.5 -87.4 -87.1 70.2 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"]
with 5 slots ... ... ... ... ...@ labpt : num [1:2] -104.8 68.5 ... ... ... ... ...@ area : num 0.0374 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4,
1:2] -104.5 -105.1 -104.7 -104.5 68.4 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5
slots ... ... ... ... ...@ labpt : num [1:2] -61.5 56.8 ... ... ... ... ...@ area : num 0.0358 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -61.4
-61.4 -61.6 -61.4 56.9 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ...@ labpt : num [1:2] -77 69.3 ... ... ... ... ...@ area : num 0.035 ... ... ... ... ...@ hole : logi
FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -77 -76.6 -77.4 -77
69.4 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num
[1:2] -128.1 51.9 ... ... ... ... ...@ area : num 0.0349 ... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -128.1 -128.3 -128 -128.1 51.8 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -130
54 ... ... ... ... ...@ area : num 0.0327 ... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir:
int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -130 -131 -130 -130 54 ... ... ... ... ...$ :Formal class
'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -129.1 52.6 ... ... ...
... ...@ area : num 0.0327 ... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ... ... ...
... ...@ coords : num [1:4, 1:2] -129 -129.3 -128.9 -129 52.5 ... ... ... ... ...$ :Formal class 'Polygon'
[package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -68 69.6 ... ... ... ... ...@ area : num
0.0318 ... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ... ... ...
... ...@ coords : num [1:4, 1:2] -67.9 -68.2 -67.9 -67.9 69.5 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"]
with 5 slots ... ... ... ... ...@ labpt : num [1:2] -128.4 52.6 ... ... ... ... ...@ area : num 0.0305 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ... ... ...
... ...@ coords : num [1:4, 1:2] -128.4 -128.4 -128.3 -128.4 52.4 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5
slots ... ... ... ... ...@ labpt : num [1:2] -126.4 50.7 ... ... ... ... ...@ area : num 0.0302 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ... ... ...
... ...@ coords : num [1:4, 1:2] -126.3 -126.6 -126.3 -126.3 50.7 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots
... ... ... ... ...@ labpt : num [1:2] -64.3 63.5 ... ... ... ... ...@ area : num 0.0291 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ... ... ...
... ...@ coords : num [1:4, 1:2] -64.1
-64.5 -64.3 -64.1 63.3 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ...@ labpt : num [1:2] -95.6 74.6 ... ... ... ... ...@ area : num 0.0289 ...
... ... ... ... ...@ hole : logi
FALSE ...
... ... ... ... ...@ ringDir: int 1 ... ... ...
... ...@ coords : num [1:4, 1:2] -95.3 -95.9 -95.5
-95.3 74.5 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ... ... ...@ labpt : num [1:2] -129.2 53.2 ...
... ... ... ... ...@ area : num 0.0283 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:5, 1:2] -129 -129 -129 -129 -129 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ... ... ...@ labpt : num [1:2]
-129 53.4 ...
... ... ... ... ...@ area : num 0.0279 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:5, 1:2] -129 -129 -129 -129 -129 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ... ... ...@ labpt : num [1:2] -79.8 56.4 ...
... ... ... ... ...@ area : num 0.0277 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -79.6 -80.1 -79.5 -79.6 56.4 ...
... ... ... ... ...$ :Formal class
'Polygon' [package "sp"] with 5 slots ... ...
... ... ... ... ...@ labpt : num [1:2] -90.3 69.3 ...
... ... ... ... ...@ area : num 0.0275 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -90.3 -90.5 -90.2 -90.3 69.2 ...
... ... ... ... ...$ :Formal class 'Polygon'
[package "sp"] with 5 slots ... ...
... ... ... ... ...@ labpt : num [1:2] -129 53.6 ...
... ... ... ... ...@ area : num 0.0268 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords
```

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: num [1:5, 1:2] -129 -129 -129 -129 -129 ... ... ... ... .$. :Formal class 'Polygon' [package "sp"]
with 5 slots ... ... ... ... ..@ labpt : num [1:2] -79 68.3 ... ... ... ... ..@ area : num 0.0258 ... ...
... ... ..@ hole : logi FALSE ... ... ... ... ..@ ringDir: int 1 ... ... ... ... ..@ coords : num [1:4, 1:2]
-79 -79.2 -78.8 -79 68.2 ... ... ... ... .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ..@ labpt : num [1:2] -130.3 53.7 ... ... ... ... ..@ area : num 0.0258 ... ... ... ... ..@ hole :
logi FALSE ... ... ... ... ..@ ringDir: int 1 ... ... ... ... ..@ coords : num [1:4, 1:2] -130.1 -130.4
-130.3 -130.1 53.6 ... ... ... ... [list output truncated] ... ... ... ..@ plotOrder: int [1:475] 1 2 3 4 5
6 7 8 9 10 ... ... ... ..@ labpt : num [1:2] -101.7 57.7 ... ... ... ..@ ID : chr "CAN" ... ... ..@ area :
num 1662 ... $. :Formal class 'Polygons' [package "sp"] with 5 slots ... ... ... ..@ Polygons :List of 5
... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ..@ labpt : num [1:2]
104.9 12.7 ... ... ... ... ..@ area : num 15.2 ... ... ... ... ..@ hole : logi FALSE ... ... ... ... ..@ ringDir:
int 1 ... ... ... ... ..@ coords : num [1:23, 1:2] 107 108 106 106 106 ... ... ... ... $. :Formal
class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ..@ labpt : num [1:2] 103.3 10.7 ... ...
... ... ..@ area : num 0.00396 ... ... ... ... ..@ hole : logi FALSE ... ... ... ... ..@ ringDir: int 1 ...
... ... ... ... ..@ coords : num [1:4, 1:2] 103.3 103.3 103.2 103.3 10.7 ... ... ... ... $. :Formal
class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ..@ labpt : num [1:2] 103 11.3 ... ...
... ... ..@ area : num 0.00391 ... ... ... ... ..@ hole : logi TRUE ... ... ... ... ..@ ringDir: int -1 ...
... ... ... ... ..@ coords : num [1:4, 1:2] 103 103 103 103 11.2 ... ... ... ... $. :Formal class 'Polygon'
[package "sp"] with 5 slots ... ... ... ... ..@ labpt : num [1:2] 103.8 10.5 ... ... ... ... ..@ area : num 0.00197
... ... ... ... ..@ hole : logi FALSE ... ... ... ... ..@ ringDir: int 1 ... ... ... ... ..@ coords : num
[1:5, 1:2] 104 104 104 104 104 ... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots
... ... ... ... ..@ labpt : num [1:2] 103 11.5 ... ... ... ... ..@ area : num 0.00103 ... ... ... ... ..@ hole :
logi TRUE ... ... ... ... ..@ ringDir: int -1 ... ... ... ... ..@ coords : num [1:4, 1:2] 103 103
103 103 11.4 ... ... ... ... ..@ plotOrder: int [1:5] 1 2 3 4 5 ... ... ..@ labpt : num [1:2] 104.9 12.7
... ... ... ... ..@ ID : chr "KHM" ... ... ..@ area : num 15.2 ... $. :Formal class 'Polygons' [package "sp"]
with 5 slots ... ... ... ..@ Polygons :List of 6 ... ... ... ... $. :Formal class 'Polygon' [package "sp"] with
5 slots ... ... ... ... ..@ labpt : num [1:2] 80.68 7.65 ... ... ... ... ..@ area : num 5.27 ... ...
... ... ..@ hole : logi FALSE ... ... ... ... ..@ ringDir: int 1 ... ... ... ... ..@ coords : num [1:17, 1:2] 80.3
80.8 80.9 81.2 81.1 ... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ..@ labpt : num [1:2] 79.9 9.67 ... ... ... ... ..@ area : num 0.0058 ... ...
... ... ..@ hole : logi FALSE ... ... ... ... ..@ ringDir: int 1 ... ... ... ... ..@ coords : num [1:4, 1:2] 79.97 79.87
79.85 79.97 9.62 ... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ..@ labpt : num [1:2] 81.78 7.61 ... ... ... ... ..@ area : num 0.00477 ... ...
... ... ..@ hole : logi FALSE ... ...
... ... ..@ ringDir: int 1 ... ...
... ... ..@ coords : num [1:4, 1:2] 81.81 81.72 81.8 81.81 7.48 ...
... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ..@ labpt : num [1:2] 79.82 9.04 ...
... ... ..@ area : num 0.00417 ... ...
... ... ..@ hole : logi FALSE ... ...
... ... ..@ ringDir: int 1 ...
... ... ..@ coords : num [1:4, 1:2] 79.91 79.85 79.69 79.91 9.02 ...
... ... ... ... $. :Formal
class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ..@ labpt : num [1:2] 79.68 9.51 ...
... ... ..@ area : num 0.00165 ...
... ... ..@ hole : logi FALSE ...
... ... ..@ ringDir: int 1 ...
... ... ..@ coords : num [1:4, 1:2] 79.72 79.66 79.66 79.72 9.48 ...
... ... ... ... $. :Formal
class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ..@ labpt : num [1:2] 81.71 7.69 ...
... ... ..@ area : num 0.000205 ...
... ... ..@ hole : logi FALSE ...
... ... ..@ ringDir: int 1 ...
... ... ..@ coords : num [1:5, 1:2] 81.7 81.7 81.7 81.7 81.7 ...
... ... ..@ plotOrder: int [1:6] 1
2 3 4 5 6 ...
... ... ..@ labpt : num [1:2] 80.68 7.65 ...
... ... ..@ ID : chr "LKA" ...
... ... ..@ area : num 5.29 ...
... ... $. :Formal class 'Polygons' [package "sp"] with 5 slots ...
... ... ..@ Polygons :List of 1 ...
... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ..@ labpt : num [1:2] 15.218
-0.873 ...
... ... ..@ area : num 27.8 ...
... ... ..@ hole : logi FALSE ...
... ... ..@ ringDir: int 1 ...
... ... ..@ coords : num [1:37, 1:2] 12.8 12 11.1 11.5 11.9 ...
... ... ..@ plotOrder: int 1

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... ... ... @ labpt : num [1:2] 15.218 -0.873 ... ... ... @ ID : chr "COG" ... ... ... @ area : num 27.8 ...
..$ :Formal class 'Polygons' [package "sp"] with 5 slots ... ... ... @ Polygons :List of 2 ... ... ... .
$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... @ labpt : num [1:2] 23.65 -2.87
... ... ... ... @ area : num 190 ... ... ... ... @ hole : logi FALSE ... ... ... ... @ ringDir: int 1 ...
... ... ... ... @ coords : num [1:74, 1:2] 25.9 27.5 28.4 29.6 30.9 ... ... ... ... $ :Formal class
'Polygon' [package "sp"] with 5 slots ... ... ... ... @ labpt : num [1:2] 12.84 -5.89 ... ... ...
... @ area : num 0.00643 ... ... ... ... @ hole : logi TRUE ... ... ... ... @ ringDir: int -1 ...
... ... ... ... @ coords : num [1:4, 1:2] 12.95 12.84 12.74 12.95 -5.88 ... ... ... ... @ plotOrder: int [1:2] 1
2 ... ... ... @ labpt : num [1:2] 23.65 -2.87 ... ... ... @ ID : chr "COD" ... ... ... @ area : num 190 ...
..$ :Formal class 'Polygons' [package "sp"] with 5 slots ... ... ... @ Polygons :List of 1 ... ... ... .
$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... @ labpt : num [1:2] 29.9 -3.35 ...
... ... ... ... @ area : num 2.33 ... ... ... ... @ hole : logi FALSE ... ... ... ... @ ringDir: int 1 ...
... ... ... ... @ coords : num [1:11, 1:2] 29.2 29 29.9 30 30.6 ... ... ... ... @ plotOrder: int 1 ...
... ... ... @ labpt : num [1:2] 29.9 -3.35 ... ... ... @ ID : chr "BDI" ... ... ... @ area : num 2.33 ...
..$ :Formal class 'Polygons' [package "sp"] with 5 slots ... ... ... @ Polygons :List of 34 ... ... ... .
$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... @ labpt : num [1:2] 103.8 36.6 ...
... ... ... ... @ area : num 946 ... ... ... ... @ hole : logi FALSE ... ... ... ... @ ringDir: int 1 ...
... ... ... ... @ coords : num [1:285, 1:2] 123 126 128 128 131 ... ... ... ... $ :Formal class 'Polygon' [package
"sp"] with 5 slots ... ... ... ... @ labpt : num [1:2] 109.7 19.2 ... ... ... ... @ area : num 3 ...
... ... ... ... @ hole : logi FALSE ... ... ... ... @ ringDir: int 1 ... ... ... ... @ coords : num [1:8, 1:2]
111 111 110 110 109 ... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... @ labpt : num [1:2] 122.1 30.1 ... ... ... ... @ area : num 0.0217 ... ... ... ... @ hole : logi
FALSE ... ... ... ... @ ringDir: int 1 ... ... ... ... @ coords : num [1:4, 1:2] 122 122 122 122 30 ...
... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... @ labpt : num [1:2]
121.5 31.7 ... ... ... ... @ area : num 0.0167 ... ... ... ... @ hole : logi FALSE ... ... ...
... @ ringDir: int 1 ... ... ... ... @ coords : num [1:4, 1:2] 121.5 121.9 121.2 121.5 31.7 ...
... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... @ labpt : num [1:2] 110 21 ...
... ... ... ... @ area : num 0.0134 ... ... ... ... @ hole : logi FALSE ... ... ... ... @ ringDir: int 1 ...
... ... ... ... @ coords : num [1:4, 1:2] 110.5 110.5 110.2 110.5 21.1 ... ... ... ... $ :Formal class
'Polygon' [package "sp"] with 5 slots ... ... ... ... @ labpt : num [1:2] 117.4 23.7 ...
... ... ... ... @ area : num 0.0119 ... ... ... ... @ hole : logi FALSE ... ... ... ... @ ringDir: int 1 ...
... ... ... ... @ coords : num [1:4, 1:2] 117.4 117.5 117.3 117.4 23.8 ... ... ... ... $ :Formal class 'Polygon'
[package "sp"] with 5 slots ... ... ... ... @ labpt : num [1:2] 119.7 25.5 ... ... ... ... @ area : num
0.0117 ... ... ... ... @ hole : logi FALSE ... ... ... ... @ ringDir: int 1 ... ... ... ... @ coords :
num [1:4, 1:2] 119.8 119.7 119.7 119.8 25.6 ... ... ... ... $ :Formal class 'Polygon' [package "sp"]
with 5 slots ... ... ... ... @ labpt : num [1:2] 119.8 32.2 ... ... ... ... @ area : num 0.0105 ...
... ... ... ... @ hole : logi FALSE ... ... ... ... @ ringDir: int 1 ... ... ... ... @ coords : num [1:4, 1:2]
119.9 119.7 119.8 119.9 32.1 ... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... @ labpt : num [1:2] 118.1 24.5 ... ... ... ... @ area : num 0.0085 ...
... ... ... ... @ hole : logi FALSE ... ... ... ... @ ringDir: int 1 ... ... ... ... @ coords : num [1:5, 1:2]
118 118 118 118 ... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... @ labpt : num [1:2] 117.1 23.4 ... ... ... ... @ area : num 0.00752 ...
... ... ... ... @ hole : logi FALSE ...
... ... ... ... @ ringDir: int 1 ... ... ... ... @ coords : num [1:4, 1:2] 117.1 116.9 117.1 117.1 23.4 ...
... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... @ labpt : num [1:2] 121.4 39.4 ...
... ... ... ... @ area : num 0.0075 ...
... ... ... ... @ hole : logi FALSE ...
... ... ... ... @ ringDir: int 1 ...
... ... ... ... @ coords : num [1:4, 1:2] 121.4 121.3 121.4 121.4 39.4 ...
... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... @ labpt : num [1:2] 113.5 22.8 ...
... ... ... ... @ area : num 0.00744 ...
... ... ... ... @ hole : logi FALSE ...
... ... ... ... @ ringDir:

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int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 113.6 113.4 113.5 113.6 22.8 ... ... ... ... ...$ :Formal
class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 122.1 29.7 ... ... ...
... ...@ area : num 0.00743 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ...
... ... ...@ coords : num [1:4, 1:2] 122.1 122.2 122 122.1 29.8 ... ... ... ... ...$ :Formal class 'Polygon'
[package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 121.2 28.1 ... ... ... ... ...@ area :
num 0.00706 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...
...@ coords : num [1:4, 1:2] 121 121 121 121 28 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"]
with 5 slots ... ... ... ... ...@ labpt : num [1:2] 112.8 21.7 ... ... ... ... ...@ area : num 0.00688 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...
...@ coords : num [1:4, 1:2] 112.8 112.7 112.9 112.8 21.7 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"]
with 5 slots ... ... ... ... ...@ labpt : num [1:2] 122.2 30.3 ... ... ... ... ...@ area : num 0.00671 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ...
...@ coords : num [1:4, 1:2] 122.2 122.1 122.2 122.2 30.2 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"]
with 5 slots ... ... ... ... ...@ labpt : num [1:2] 111.9 21.6 ... ... ... ... ...@ area : num 0.00628 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ...
...@ coords : num [1:4, 1:2] 111.8 111.8 112 111.8 21.6 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"]
with 5 slots ... ... ... ... ...@ labpt : num [1:2] 110.6 21.2 ... ... ... ... ...@ area : num 0.00553 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ...
... ... ... ... ...@ coords : num [1:4, 1:2] 110.5 110.6 110.5 110.5 21.2 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ...
...@ labpt : num [1:2] 122.4 29.9 ... ... ... ... ...@ area : num 0.00489 ... ... ...
...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ...
... ... ... ... ...@ coords : num [1:4, 1:2] 122.4 122.4 122.3 122.4 29.9 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ... ... ...@ labpt : num [1:2] 121.9 29.1 ...
... ... ... ... ...@ area : num 0.0038 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] 121.9 121.9 121.9 121.9 29.1 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 112.6 21.6 ...
... ... ... ... ...@ area : num 0.0036 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] 112.5 112.6 112.6 112.5 21.6 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 121.8 31.3 ...
... ... ... ... ...@ area : num 0.00321 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] 121.8 121.8 121.9 121.8 31.3 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 119.3 25.5 ...
... ... ... ... ...@ area : num 0.00317 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] 119.3 119.3 119.3 119.3 25.4 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 122.3 30.4 ...
... ... ... ... ...@ area : num 0.00307 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] 122.4 122.3 122.3 122.4 30.4 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 113.3 22.1 ...
... ... ... ... ...@ area : num 0.00288 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] 113.3 113.3 113.3 113.4 22.1 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 113 22 ...
... ... ... ... ...@ area : num 0.00285 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] 113 113 113 113 22 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 113.5 22.7 ...
... ... ... ... ...@ area : num 0.00283 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] 113.6 113.5 113.5 113.6 22.7 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 122 30 ...
... ... ... ... ...@ area : num 0.00243 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] 122 122 122 122 30 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 110.6 20.9 ...
... ... ... ... ...@ area : num 0.00193

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:Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -73.1 -44.6 ...
... ... ... ... ...@ area : num 0.213 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1
... ... ... ... ...@ coords : num [1:11, 1:2] -72.7 -72.8 -73 -72.8 -73.1 ... ... ... ... ...$ :Formal class
'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -71.3 -54.2 ... ... ... ... ...@ area : num 0.111 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:5, 1:2] -71.3 -71 -71.1 -71.7 -71.3 ... ... ... ... ...$ :Formal class 'Polygon' [package
"sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -70.6 -53.9 ... ... ... ... ...@ area : num 0.107
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num
[1:6, 1:2] -70.4 -70.7 -70.5 -70.9 -70.5 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with
5 slots ... ... ... ... ...@ labpt : num [1:2] -75.4 -48.4 ... ... ... ... ...@ area : num 0.0752 ... ... ...
... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2]
-75.2 -75.2 -75.6 -75.2 -48.3 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -74.6 -51 ... ... ... ... ...@ area : num 0.075 ... ... ... ... ...@ hole :
logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:6, 1:2] -74.4 -74.4
-74.5 -74.7 -75 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt :
num [1:2] -72 -54.1 ... ... ... ... ...@ area : num 0.067 ... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:5, 1:2] -71.7 -72 -71.8 -72.3 -71.7 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2]
-73.9 -45.1 ... ... ... ... ...@ area : num 0.0639 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir:
int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -73.8 -73.7 -74.2 -73.8 -45 ... ... ... ... ...$ :Formal
class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -74.4 -50.7
... ... ... ... ...@ area : num 0.0576 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir:
int 1 ... ... ... ... ...@ coords : num [1:6, 1:2] -74.4 -74.2 -74.5 -74.4 -74.7 ... ... ... ... ...$ :Formal
class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -75.1 -48.2 ... ... ...
... ...@ area : num 0.0527 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ...@ coords : num [1:4, 1:2] -74.9 -75 -75.3 -74.9 -48.2 ... ... ... ... ...$ :Formal class 'Polygon'
[package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -69.6 -55 ... ... ... ... ...@ area : num
0.0484 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords
: num [1:4, 1:2] -69.8 -69.9 -69.2 -69.8 -55 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"]
with 5 slots ... ... ... ... ...@ labpt : num [1:2] -74.1 -53 ... ... ... ... ...@ area : num 0.0441 ...
... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2]
-74.4 -74.7 -73.1 -74.4 -52.9 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -73.9 -52.6 ... ... ... ... ...@ area : num 0.0428 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num
[1:4, 1:2] -73.8 -74.1 -73.7 -73.8 -52.7 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -75.3 -50.7 ... ... ... ... ...@ area : num 0.0423 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num
[1:4, 1:2] -75.1 -75.3 -75.5 -75.1 -50.5 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2]
-75 -45.9 ... ... ... ... ...@ area : num 0.0416 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -74.7 -75.1 -75.1 -74.7 -45.9 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -74.8 -51.3 ...
... ... ... ... ...@ area : num 0.0413 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -74.5 -75 -74.8 -74.5 -51.3 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -75.4 -49.8 ...
... ... ... ... ...@ area : num 0.0404 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -75.3 -75.2 -75.6 -75.3 -49.7 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -75.2 -51.4 ...
... ... ... ... ...@ area : num 0.0394 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@
```

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coords : num [1:4, 1:2] -75 -75.3 -75.2 -75 -51.4 ... ... ... ...$ :Formal class 'Polygon' [package
"sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -74.9 -51.9 ... ... ... ... ...@ area : num 0.0392
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num
[1:4, 1:2] -74.8 -75 -74.9 -74.8 -51.8 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5
slots ... ... ... ... ...@ labpt : num [1:2] -75 -49.2 ... ... ... ... ...@ area : num 0.0384 ... ... ...
...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -74.9
-75.2 -75 -74.9 -49.3 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ...
...@ labpt : num [1:2] -74.4 -45.6 ... ... ... ... ...@ area : num 0.0368 ... ... ... ... ...@ hole : logi
FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -74.5 -74.4 -74.2
-74.5 -45.8 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt
: num [1:2] -75 -48 ... ... ... ... ...@ area : num 0.0352 ... ... ... ... ...@ hole : logi FALSE ... ...
... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -74.8 -74.9 -75.3 -74.8 -47.9 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2]
-75.1 -50.2 ... ... ... ... ...@ area : num 0.0352 ... ... ... ... ...@ hole : logi FALSE ... ... ...
...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:6, 1:2] -75 -74.8 -75.5 -75.1 -75.4 ... ... ...
... :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -74.2 -44.7 ...
... ... ... ...@ area : num 0.035 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1
... ... ... ... ...@ coords : num [1:4, 1:2] -74.2 -74.4 -73.9 -74.2 -44.8 ... ... ... ... ...$ :Formal class
'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -75.4 -49 ... ... ...
...@ area : num 0.0325 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:6, 1:2] -75.3 -75.3 -75.3 -75.5 -75.7 ... ... ... ... ...$ :Formal class 'Polygon'
[package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -70.7 -55 ... ... ... ... ...@ area : num
0.0315 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords
: num [1:6, 1:2] -70.5 -70.7 -70.3 -71 -70.3 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"]
with 5 slots ... ... ... ... ...@ labpt : num [1:2] -75.5 -48.6 ... ... ... ... ...@ area : num 0.0314 ...
... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2]
-75.3 -75.6 -75.7 -75.3 -48.6 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] -74.1 -51.7 ... ... ... ... ...@ area : num 0.0298 ... ... ...
...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -74.1 -73.9
-74.2 -74.1 -51.6 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
...@ labpt : num [1:2] -72.3 -54.2 ... ... ... ... ...@ area : num 0.0278 ... ... ...
...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:5, 1:2] -72.3 -72.5 -72.3 -72.2 -72.3
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2]
-75.4 -49.1 ... ... ... ... ...@ area : num 0.0255 ... ... ... ... ...@ hole : logi FALSE ... ...
... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -75.3 -75.7 -75.4 -75.3 -49.1 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -73.9 -43.8 ...
... ... ... ...@ area : num 0.0253 ... ... ... ... ...@ hole : logi FALSE ... ...
... ... ... ...@ ringDir: int 1 ...
... ... ... ...@ coords : num [1:4, 1:2] -73.9 -73.8 -74.2 -73.9 -43.8 ... ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ... ...@ labpt : num [1:2] -74.2 -45 ... ...
... ... ... ...@ area : num 0.0252 ... ...
... ... ... ...@ hole : logi FALSE ... ...
... ... ... ...@ ringDir: int 1 ...
... ... ... ...@ coords : num [1:4, 1:2] -74 -74.4 -74.2 -74 -45 ... ...
... ... ... ... ...$ :Formal class 'Polygon' [package
"sp"] with 5 slots ... ...
... ... ... ...@ labpt : num [1:2] -73.9 -52.1 ... ...
... ... ... ...@ area : num 0.023 ...
... ... ... ... ...@ hole : logi FALSE ... ...
... ... ... ...@ ringDir: int 1 ...
... ... ... ...@ coords : num [1:4, 1:2] -73.7 -74.1 -73.8 -73.7 -52.2 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with
5 slots ... ...
... ... ... ...@ labpt : num [1:2] -74.7 -51.9 ...
... ... ... ... ...@ area : num 0.0229 ...
... ...
... ... ... ...@ hole : logi FALSE ...
... ...
... ... ... ...@ ringDir: int 1 ...
... ...
... ... ... ...@ coords : num [1:4, 1:2] -74.9 -74.7 -74.6 -74.9 -52.1 ...
... ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ...
... ... ... ...@ labpt : num [1:2] -74.2 -52.2 ...
... ...
... ... ... ...@ area : num 0.0229 ...
... ...
... ... ... ...@ hole

```

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: logi FALSE .. . . . . . . . .@ ringDir: int 1 .. . . . . . . . .@ coords : num [1:4, 1:2] -74.2 -73.9
-74.4 -74.2 -52.1 .. . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . .
.. @ labpt : num [1:2] -73.9 -52.3 .. . . . . . . .@ area : num 0.0212 .. . . . . . . .@ hole : logi
FALSE .. . . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num [1:4, 1:2] -73.8 -74.1 -73.8
-73.8 -52.4 .. . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt
: num [1:2] -67.4 -55.7 .. . . . . . . .@ area : num 0.0207 .. . . . . . . .@ hole : logi FALSE ..
. . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num [1:4, 1:2] -67.3 -67.6 -67.4 -67.3 -55.7 ..
. . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2]
-74.8 -50.8 .. . . . . . . .@ area : num 0.0203 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir:
int 1 .. . . . . . . .@ coords : num [1:4, 1:2] -74.7 -75 -74.7 -74.7 -50.9 .. . . . . . . .$. :Formal
class 'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2] -74.2 -51.8
. . . . . . .@ area : num 0.02 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1
. . . . . . .@ coords : num [1:4, 1:2] -74.1 -74.5 -74.1 -74.1 -52 .. . . . . . . .$. :Formal class
'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2] -74 -45.6 .. . . . . . . .@ area :
num 0.0197 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords :
num [1:5, 1:2] -74 -74.1 -74 -73.9 -74 .. . . . . . . .$. :Formal class 'Polygon' [package
"sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2] -73.7 -45.6 .. . . . . . . .@ area : num 0.0191
. . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num
[1:4, 1:2] -73.6 -73.8 -73.7 -73.6 -45.8 .. . . . . . . .$. :Formal class 'Polygon' [package "sp"] with
5 slots .. . . . . . . .@ labpt : num [1:2] -74.4 -48.4 .. . . . . . . .@ area : num 0.0181 .. . . . . .
. . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num [1:4, 1:2] -74.3
-74.5 -74.3 -48.5 .. . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . .
. . . . . . .@ labpt : num [1:2] -73.8 -46.1 .. . . . . . . .@ area : num 0.0177 .. . . . . . . .@ hole : logi
FALSE .. . . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num [1:4, 1:2] -73.8 -73.9 -73.7
-73.8 -46.2 .. . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt
: num [1:2] -73.6 -53.5 .. . . . . . . .@ area : num 0.0175 .. . . . . . . .@ hole : logi FALSE ..
. . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num [1:4, 1:2] -73.5 -73.5 -73.8 -73.5 -53.5
. . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num
[1:2] -74 -45.5 .. . . . . . . .@ area : num 0.0172 .. . . . . . . .@ hole : logi FALSE .. . . . . .
. . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num [1:4, 1:2] -74 -73.8 -74.1 -74 -45.4 ..
. . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2] -75.2 -48.9
. . . . . . .@ area : num 0.0169 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1
. . . . . . .@ coords : num [1:4, 1:2] -75.2 -75.3 -75.1 -75.2 -49 .. . . . . . . .$. :Formal class
'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2] -75.4 -48.7 .. . . . . .
. . . . . . .@ area : num 0.0163 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1
. . . . . . .@ coords : num [1:4, 1:2] -75.3 -75.7 -75.3 -75.3 -48.7 .. . . . . . . .$. :Formal class
'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2] -74.1 -47.1 .. . . . . .
. . . . . . .@ area : num 0.015 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1
. . . . . . .@ coords : num [1:4, 1:2] -74.2 -74.2 -74 -74.2 -47.2 .. . . . . . . .$. :Formal class
'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2] -73.7 -44.7 .. . . . . .
. . . . . . .@ area : num 0.0146 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1
. . . . . . .@ coords : num [1:4, 1:2] -73.7 -73.7 -73.6 -73.7 -44.7 .. . . . . . . .$. :Formal class
'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2] -75.1 -48.7 .. . . . . .
. . . . . . .@ area : num 0.0143 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1
. . . . . . .@ coords : num [1:4, 1:2] -75.1 -75.2 -75.1 -75.1 -48.8 .. . . . . . . .$. :Formal class
'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2] -74.5 -51.1 .. . . . . .
. . . . . . .@ area : num 0.0136 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1
. . . . . . .@ coords : num [1:4, 1:2] -74.4 -74.6 -74.5 -74.4 -51.2 .. . . . . . . .$. :Formal class
'Polygon' [package "sp"] with 5 slots .. . . . . .

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..@ labpt : num [1:2] -74.3 -51.1 ... ... ... ... ..@ area : num 0.0133 ... ... ... ... ..@ hole : logi
FALSE ... ... ... ... ..@ ringDir: int 1 ... ... ... ... ..@ coords : num [1:4, 1:2] -74.3 -74.3 -74.2
-74.3 -51.2 ... ... ... ... ..$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ..@ labpt
: num [1:2] -74.4 -49.5 ... ... ... ... ..@ area : num 0.0131 ... ... ... ... ..@ hole : logi FALSE ...
... ... ... ... ..@ ringDir: int 1 ... ... ... ... ..@ coords : num [1:4, 1:2] -74.3 -74.4 -74.4 -74.3 -49.6 ...
... ... ... ... ..$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ..@ labpt : num [1:2]
-73.5 -52.9 ... ... ... ... ..@ area : num 0.0129 ... ... ... ... ..@ hole : logi FALSE ... ... ... ...
..@ ringDir: int 1 ... ... ... ... ..@ coords : num [1:4, 1:2] -73.4 -73.4 -73.8 -73.4 -52.9 ...
... ... ... ... ..$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ..@ labpt : num [1:2] -75.2 -47.8
... ... ... ... ..@ area : num 0.0128 ... ... ... ... ..@ hole : logi FALSE ... ... ... ...
..@ ringDir:
int 1 ... ... ... ... ..@ coords : num [1:4, 1:2] -75.1 -75.3 -75.1 -75.1 -47.8 ...
... ... ... ... ..$ :Formal
class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ..@ labpt : num [1:2] -67.7 -55.9 ...
... ... ... ... ..@ area : num 0.0121 ... ... ... ... ..@ hole : logi FALSE ... ... ... ...
..@ ringDir: int 1 ... ... ...
... ... ... ... ..@ coords : num [1:4, 1:2] -67.5 -67.6 -67.9 -67.5 -55.8 ...
... ... ... ... ..$ :Formal
class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ..@ labpt : num [1:2] -74.7 -50.4 ...
... ... ... ... ..@ area : num 0.0117 ... ... ...
... ... ... ... ..@ hole : logi FALSE ... ... ...
... ... ... ... ..@ ringDir: int 1 ... ... ...
... ... ... ... ..@ coords : num [1:4, 1:2] -74.7 -74.8 -74.5 -74.7 -50.5 ...
... ... ... ... ..$ :Formal
class 'Polygon' [package "sp"] with 5 slots ... ... ...
... ... ... ... ..@ labpt : num [1:2] -74.5 -48.3 ...
... ... ... ... ..@ area : num 0.0117 ...
... ... ... ... ..@ hole : logi FALSE ...
... ... ...
... ... ... ... ..@ ringDir: int 1 ... ... ...
... ... ... ... ..@ coords : num [1:4, 1:2] -74.4 -74.5 -74.6 -74.4 -48.3 ...
... ... ... ... ..$ :Formal
class 'Polygon' [package "sp"] with 5 slots ...
... ... ...
... ... ... ... ..@ labpt : num [1:2] -73.3 -54.1 ...
... ... ...
... ... ... ... ..@ area : num 0.0114 ...
... ... ...
... ... ... ... ..@ hole : logi FALSE ...
... ... ...
... ... ... ... ..@ ringDir: int 1 ... ...
... ... ...
... ... ... ... ..@ coords : num [1:4, 1:2] -73.2 -73.5 -73.2 -73.2 -54.1 ...
... ... ...
... ... ... ... ..$ :Formal
class 'Polygon' [package "sp"] with 5 slots ...
... ... ...
... ... ... ... ..@ labpt : num [1:2] -109.4 -27.1 ...
... ... ...
... ... ... ... ..@ area : num 0.0114 ...
... ... ...
... ... ... ... ..@ hole : logi FALSE ...
... ... ...
... ... ... ... ..@ ringDir: int 1 ...
... ... ...
... ... ... ... ..@ coords : num [1:4, 1:2] -109.2 -109.4 -109.4 -109.2 -27.1 ...
... ... ...
... ... ... ... ..$ :Formal
class 'Polygon' [package "sp"] with 5 slots ...
... ... ...
... ... ... ... ..@ labpt : num [1:2] -73.8 -53.5 ...
... ... ...
... ... ... ... ..@ area : num 0.0108 ...
... ... ...
... ... ... ... ..@ hole : logi FALSE ...
... ... ...
... ... ... ... ..@ ringDir: int 1 ...
... ... ...
... ... ... ... ..@ coords : num [1:4, 1:2] -73.8 -73.9 -73.7 -73.8 -53.6 ...
... ... ...
... ... ... ... ..$ :Formal
class 'Polygon' [package "sp"] with 5 slots ...
... ... ...
... ... ... ... ..@ labpt : num [1:2] -71.2 -54.9 ...
... ... ...
... ... ... ... ..@ area : num 0.0105 ...
... ... ...
... ... ... ... ..@ hole : logi FALSE ...
... ... ...
... ... ... ... ..@ ringDir: int 1 ...
... ... ...
... ... ... ... ..@ coords : num [1:4, 1:2] -71.1 -70.9 -71.5 -71.1 -54.9 ...
... ... ...
... ... ... ... ..$ :Formal
class 'Polygon' [package "sp"] with 5 slots ...
... ... ...
... ... ... ... ..@ labpt : num [1:2] -73.5 -42.4 ...
... ... ...
... ... ... ... ..@ area : num 0.0103 ...
... ... ...
... ... ... ... ..@ hole : logi FALSE ...
... ... ...
... ... ... ... ..@ ringDir: int 1 ...
... ... ...
... ... ... ... ..@ coords : num [1:4, 1:2] -73.4 -73.7 -73.5 -73.4 -42.6 ...
... ... ...
... ... ... ... ..$ :Formal
class 'Polygon' [package "sp"] with 5 slots ...
... ... ...
... ... ... ... ..@ labpt : num [1:2] -73.8 -45.9 ...
... ... ...
... ... ... ... ..@ area : num 0.0102 ...
... ... ...
... ... ... ... ..@ hole : logi FALSE ...
... ... ...
... ... ... ... ..@ ringDir: int 1 ...
... ... ...
... ... ... ... ..@ coords : num [1:4, 1:2] -73.7 -73.9 -73.9 -73.7 -45.8 ...
... ... ...
... ... ... ... ..$ :Formal
class 'Polygon' [package "sp"] with 5 slots ...
... ... ...
... ... ... ... ..@ labpt : num [1:2] -66.9 -55.3 ...
... ... ...
... ... ... ... ..@ area : num 0.0102 ...
... ... ...
... ... ... ... ..@ hole : logi FALSE ...
... ... ...
... ... ... ... ..@ ringDir: int 1 ...
... ... ...
... ... ... ... ..@ coords : num [1:4, 1:2] -66.9 -67.1 -66.9 -66.9 -55.3 ...
... ... ...
... ... ... ... ..$ :Formal
class 'Polygon' [package "sp"] with 5 slots ...
... ... ...
... ... ... ... ..@ labpt : num [1:2] -74.6 -45.7 ...
... ... ...
... ... ... ... ..@ area : num 0.00988 ...
... ... ...
... ... ... ... ..@ hole : logi FALSE ...
... ... ...
... ... ... ... ..@ ringDir: int 1 ...
... ... ...
... ... ... ... ..@ coords : num [1:4, 1:2] -74.6 -74.7 -74.5 -74.6 -45.8 ...
... ... ...
... ... ... ... ..$ :Formal
class 'Polygon' [package "sp"] with 5 slots ...
... ... ...
... ... ... ... ..@ labpt : num [1:2] -74.7 -52.3 ...
... ... ...
... ... ... ... ..@ area : num 0.00965 ...
... ... ...
... ... ... ... ..@ hole : logi FALSE ...
... ... ...
... ... ... ... ..@ ringDir: int 1 ...
... ... ...
... ... ... ... ..@ coords : num [1:4, 1:2] -74.7 -74.8 -74.6 -74.7 -52.3 ...
... ... ...
... ... ... ... ..$ :Formal
class 'Polygon' [package "sp"] with 5 slots ...
... ... ...
... ... ... ... ..@ labpt : num [1:2] -74.4 -48.5 ...
... ... ...
... ... ... ... ..@ area : num 0.0095 ...
... ... ...
... ... ... ... ..@ hole : logi FALSE ...
... ... ...
... ... ... ... ..@ ringDir: int 1 ...

```

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... @ coords : num [1:4, 1:2] -74.4 -74.5 -74.3 -74.4 -48.5 ... ... ... ... .$. :Formal class 'Polygon'
[package "sp"] with 5 slots ... ... ... ... ..@ labpt : num [1:2] -74 -51.3 ... ... ... ... ..@ area : num
0.00943 ... ... ... ... ..@ hole : logi FALSE ... ... ... ... ..@ ringDir: int 1 ... ... ... ... ..@ coords
: num [1:4, 1:2] -74 -74.1 -74 -74 -51.4 ... ... ... ... $. :Formal class 'Polygon' [package "sp"] with
5 slots ... ... ... ... ..@ labpt : num [1:2] -72.4 -54.4 ... ... ... ... ..@ area : num 0.00922 ... ...
... ... ... @ hole : logi FALSE ... ... ... ... ..@ ringDir: int 1 ... ... ... ... ..@ coords : num [1:4, 1:2]
-72.3 -72.5 -72.3 -54.4 ... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ..@ labpt : num [1:2] -70.3 -54.2 ... ... ... ... ..@ area : num 0.0092 ... ... ... ... ..@ hole
: logi FALSE ... ... ... ... ..@ ringDir: int 1 ... ... ... ... ..@ coords : num [1:4, 1:2] -70.3 -70.5
-70.2 -70.3 -54.3 ... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ..@ labpt : num [1:2] -66.9 -55 ... ... ... ... ..@ area : num 0.00915 ... ... ... ... ..@ hole : logi
FALSE ... ... ... ... ..@ ringDir: int 1 ... ... ... ... ..@ coords : num [1:4, 1:2] -66.8 -67.1 -66.9
-66.8 -55.1 ... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ..@ labpt : num [1:2] -66.5 -55.2 ... ... ... ... ..@ area : num 0.00887 ... ... ... ... ..@ hole : logi FALSE ...
... ... ... ... ..@ ringDir: int 1 ... ... ... ... ..@ coords : num [1:4, 1:2] -66.6 -66.6 -66.6 -55.3 ...
... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ..@ labpt : num [1:2] -74.4 -45.3 ... ... ... ... ..@ area : num 0.00869 ... ... ... ... ..@ hole : logi FALSE ...
... ... ... ... ..@ ringDir: int 1 ... ... ... ... ..@ coords : num [1:4, 1:2] -74.3 -74.5 -74.4 -74.3 -45.4 ...
... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ..@ labpt : num [1:2] -74.4 -47.1 ...
... ... ... ... ..@ area : num 0.00831 ... ... ... ... ..@ hole : logi FALSE ...
... ... ... ... ..@ ringDir: int 1 ...
... ... ... ... ..@ coords : num [1:4, 1:2] -74.5 -74.5 -74.3 -74.5 -47.2 ...
... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ..@ labpt : num [1:2] -74 -44.4 ...
... ... ... ... ..@ area : num 0.00806 ...
... ... ... ... ..@ hole : logi FALSE ...
... ... ... ... ..@ ringDir: int 1 ...
... ... ... ... ..@ coords : num [1:4, 1:2] -73.9 -74.1 -73.9 -73.9 -44.4 ...
... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ..@ labpt : num [1:2] -73.2 -43.9 ...
... ... ... ... ..@ area : num 0.00805 ...
... ... ... ... ..@ hole : logi FALSE ...
... ... ... ... ..@ ringDir: int 1 ...
... ... ... ... ..@ coords : num [1:4, 1:2] -73.2 -73.3 -73.1 -73.2 -44 ...
... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ..@ labpt : num [1:2] -74.2 -51.3 ...
... ... ... ... ..@ area : num 0.008 ...
... ... ... ... ..@ hole : logi FALSE ...
... ... ... ... ..@ ringDir: int 1 ...
... ... ... ... ..@ coords : num [1:4, 1:2] -75 -51.8 ...
... ... ... ... ..@ area : num 0.00778 ...
... ... ... ... ..@ hole : logi FALSE ...
... ... ... ... ..@ ringDir: int 1 ...
... ... ... ... ..@ coords : num [1:4, 1:2] -75.1
-75.1 -75.1 -51.9 ...
... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ..@ labpt : num [1:2] -74.9 -48.7 ...
... ... ... ... ..@ area : num 0.00769 ...
... ... ... ... ..@ hole : logi FALSE ...
... ... ... ... ..@ ringDir: int 1 ...
... ... ... ... ..@ coords : num [1:4, 1:2] -75 -75 -74.8
-75 -48.7 ...
... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ..@ labpt : num [1:2] -74.6 -52 ...
... ... ... ... ..@ area : num 0.00758 ...
... ... ... ... ..@ hole : logi FALSE ...
... ... ... ... ..@ ringDir: int 1 ...
... ... ... ... ..@ coords : num [1:4, 1:2] -74.7 -74.6 -74.5 -74.7 -52.1 ...
... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ..@ labpt : num [1:2] -74.8 -43.6 ...
... ... ... ... ..@ area : num 0.00751 ...
... ... ... ... ..@ hole : logi FALSE ...
... ... ... ... ..@ ringDir: int 1 ...
... ... ... ... ..@ coords : num [1:4, 1:2] -74.6 -74.8 -74.9 -74.6 -43.6 ...
... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ..@ labpt : num [1:2] -73.9 -44.9 ...
... ... ... ... ..@ area : num 0.00745 ...
... ... ... ... ..@ hole : logi FALSE ...
... ... ... ... ..@ ringDir: int 1 ...
... ... ... ... ..@ coords : num [1:4, 1:2] -73.8 -73.9 -73.9 -73.8 -45 ...
... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ..@ labpt : num [1:2] -74.1 -44.8 ...
... ... ... ... ..@ area : num 0.00741 ...
... ... ... ... ..@ hole : logi FALSE ...
... ... ... ... ..@ ringDir: int 1 ...
... ... ... ... ..@ coords : num [1:4, 1:2] -74 -74.2 -74 -74 -44.9 ...
... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ..@ labpt : num [1:2] -74.4 -44.8 ...
... ... ... ... ..@ area : num 0.00738

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... .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num
[1:4, 1:2] -74.4 -74.5 -74.4 -74.4 -44.9 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with
5 slots .. . . . . . . .@ labpt : num [1:2] -74.4 -44.5 .. . . . . . . .@ area : num 0.00737 .. . . .
... . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num [1:4, 1:2]
-74.4 -74.5 -74.2 -74.4 -44.5 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ..
... . . . . . . .@ labpt : num [1:2] -74 -44.5 .. . . . . . . .@ area : num 0.00732 .. . . . . . . .@ hole :
logi FALSE .. . . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num [1:4, 1:2] -74 -74.1 -74
-74 -44.6 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt
: num [1:2] -78.9 -33.6 .. . . . . . . .@ area : num 0.00729 .. . . . . . . .@ hole : logi FALSE ..
... . . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num [1:4, 1:2] -78.8 -79 -78.9 -78.8 -33.6 ...
... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2]
-73.8 -46 .. . . . . . . .@ area : num 0.0071 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir:
int 1 .. . . . . . . .@ coords : num [1:4, 1:2] -73.7 -73.8 -73.8 -73.7 -46 .. . . . . . . .$. :Formal
class 'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2] -73.8 -51.3
.. . . . . . . .@ area : num 0.00698 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir:
int 1 .. . . . . . . .@ coords : num [1:4, 1:2] -73.8 -73.9 -73.8 -73.8 -51.4 .. . . . . . . .$. :Formal
class 'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2] -73.7 -44.8 .. . . . .
... . . . . . . .@ area : num 0.00694 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1 ..
... . . . . . . .@ coords : num [1:4, 1:2] -73.7 -73.7 -73.6 -73.7 -44.8 .. . . . . . . .$. :Formal class
'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2] -75 -50.7 .. . . . . . . .@ area :
num 0.00689 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords
: num [1:4, 1:2] -75 -75.1 -75 -75 -50.8 .. . . . . . . .$. :Formal class 'Polygon' [package "sp"] with
5 slots .. . . . . . . .@ labpt : num [1:2] -74.7 -52.1 .. . . . . . . .@ area : num 0.00688 .. . . .
... . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num [1:4, 1:2]
-74.8 -74.8 -74.6 -74.8 -52.2 .. . . . . . . .@ plotOrder: int [1:148]
1 2 3 4 5 6 7 8 9 10 ... . . . . . . .@ labpt : num [1:2] -71.2 -35.1 .. . . . . . . .@ ID : chr "CHL" ..
... . . . . . . .@ area : num 72.9 ... . $. :Formal class 'Polygons' [package "sp"] with 5 slots .. . . . . . . .@ Polygons
:List of 3 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt :
num [1:2] -81.3 19.3 .. . . . . . . .@ area : num 0.00845 .. . . . . . . .@ hole : logi FALSE ..
... . . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num [1:4, 1:2] -81.1 -81.4 -81.3 -81.1 19.3 ...
... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2]
-80 19.7 .. . . . . . . .@ area : num 0.00226 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir:
int 1 .. . . . . . . .@ coords : num [1:4, 1:2] -80.1 -80.1 -80.1 19.7 ... . . . . . . .$. :Formal class
'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2] -79.8 19.7 ..
... . . . . . . .@ area : num 0.00126 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir:
int 1 .. . . . . . . .@ coords : num [1:4, 1:2] -79.9 -79.9 -79.7 -79.9 19.7 ... . . . . . . .@ plotOrder:
int [1:3] 1 2 3 .. . . . . . . .@ labpt : num [1:2] -81.3 19.3 .. . . . . . . .@ ID : chr "CYM" ..
... . . . . . . .@ area : num 0.012 ... . $. :Formal class 'Polygons' [package "sp"] with 5 slots .. . . . . . . .@ Polygons
:List of 2 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2]
12.73 5.64 .. . . . . . . .@ area : num 38.3 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir:
int 1 .. . . . . . . .@ coords : num [1:4, 1:2] 9.69 9.63 9.64 9.69 3.57 .. . . . . . . .@ plotOrder: int [1:2]
1 2 .. . . . . . . .@ labpt : num [1:2] 12.73 5.64 .. . . . . . . .@ ID : chr "CMR" .. . . . . . . .@ area : num 38.3 ..
... . $. :Formal class 'Polygons' [package "sp"] with 5 slots .. . . . . . . .@ Polygons :List of 1 .. . . . . . . .$. :Formal
class 'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2] 18.7 15.3 ..
... . . . . . . .@ area : num 107 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1 ..

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... . . . . .@ coords : num [1:35, 1:2] 14.5 14.1 13.6 13.5 15.5 ... . . . . .@ plotOrder: int 1 . . .
.. @ labpt : num [1:2] 18.7 15.3 . . . . .@ ID : chr "TCD" . . . . .@ area : num 107 . . . . .$ :Formal
class 'Polygons' [package "sp"] with 5 slots . . . . .@ Polygons :List of 3 . . . . .$. :Formal class
'Polygon' [package "sp"] with 5 slots . . . . .@ labpt : num [1:2] 43.3 -11.7 . . . . .@ area : num
0.0513 . . . . .@ hole : logi FALSE . . . . .@ ringDir: int 1 . . . . .
. . . . .@ coords : num [1:4, 1:2] 43.5 43.2 43.3 43.5 -11.9 . . . . .$. :Formal class 'Polygon'
[package "sp"] with 5 slots . . . . .@ labpt : num [1:2] 44.4 -12.2 . . . . .@ area : num
0.0412 . . . . .@ hole : logi FALSE . . . . .@ ringDir: int 1 . . . . .@ coords : num [1:4, 1:2]
44.5 44.5 44.2 44.5 -12.1 . . . . .$. :Formal class 'Polygon' [package "sp"] with
5 slots . . . . .@ labpt : num [1:2] 43.7 -12.3 . . . . .@ area : num 0.00955 . . .
. . . . .@ hole : logi FALSE . . . . .@ ringDir: int 1 . . . . .@ coords : num [1:4,
1:2] 43.9 43.7 43.6 43.9 -12.4 . . . . .@ plotOrder: int [1:3] 1 2 3 . . . . .@ labpt : num [1:2]
43.3 -11.7 . . . . .@ ID : chr "COM" . . . . .@ area : num 0.102 . . . $. :Formal class 'Polygons'
[package "sp"] with 5 slots . . . . .@ Polygons :List of 11 . . . . .$. :Formal class 'Polygon'
[package "sp"] with 5 slots . . . . .@ labpt : num [1:2] -73.05 3.89 . . . . .@ area : num
92.5 . . . . .@ hole : logi FALSE . . . . .@ ringDir: int 1 . . . . .@ coords : num [1:84,
1:2] -71.6 -71.1 -71.3 -72 -72.2 . . . . .$. :Formal class 'Polygon' [package "sp"]
with 5 slots . . . . .@ labpt : num [1:2] -77.43 4.26 . . . . .@ area : num 0.0124 . . .
. . . . .@ hole : logi FALSE . . . . .@ ringDir: int 1 . . . . .@ coords : num [1:4,
1:2] -77.54 -77.43 -77.32 -77.54 4.19 . . . . .$. :Formal class 'Polygon' [package "sp"] with 5
slots . . . . .@ labpt : num [1:2] -78.15 2.58 . . . . .@ area : num 0.0106 . . .
. . . . .@ hole : logi FALSE . . . . .@ ringDir: int 1 . . . . .@ coords : num [1:6,
1:2] -78.1 -78.2 -78.1 -78.1 . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots . . .
. . . . .@ labpt : num [1:2] -77.59 3.12 . . . . .@ area : num 0.00671 . . . . .@ hole : logi
FALSE . . . . .@ ringDir: int 1 . . . . .@ coords : num [1:4, 1:2] -77.57
-77.66 -77.53 -77.57 3.07 . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots . . .
. . . . .@ labpt : num [1:2] -77.82 2.66 . . . . .@ area : num 0.00622 . . . . .@ hole
: logi FALSE . . . . .@ ringDir: int 1 . . . . .@ coords : num [1:6, 1:2] -77.8 -77.8
-77.9 -77.8 -77.7 . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots . . .
. . . . .@ labpt : num [1:2] -77.99 2.59 . . . . .@ area : num 0.00596 . . . . .@ hole : logi
FALSE . . . . .@ ringDir: int 1 . . . . .@ coords : num [1:6, 1:2] -78 -78 -78 -77.9
-78 . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . .@ labpt : num
[1:2] -77.86 2.62 . . . . .@ area : num 0.00487 . . . . .@ hole : logi FALSE . . . .
. . . . .@ ringDir: int 1 . . . . .@ coords : num [1:4, 1:2] -77.86 -77.92 -77.79 -77.86 2.57
. . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . .@ labpt : num [1:2]
-77.49 4.15 . . . . .@ area : num 0.00354 . . . . .@ hole : logi FALSE . . . .
. . . . .@ ringDir: int 1 . . . . .@ coords : num [1:4, 1:2] -77.45 -77.54 -77.49 -77.45 4.07
. . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . .@ labpt : num [1:2]
-81.7 12.5 . . . . .@ area : num 0.00112 . . . . .@ hole : logi FALSE . . . .
. . . . .@ ringDir: int 1 . . . . .@ coords : num [1:4, 1:2] -81.7 -81.7 -81.7 -81.7 12.5 . . .
. . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . .@ labpt : num [1:2] -81.4 13.3
. . . . .@ area : num 0.000733 . . . . .@ hole : logi FALSE . . . . .@ ringDir: int
1 . . . . .@ coords : num [1:4, 1:2] -81.4 -81.4 -81.4 -81.4 13.3 . . . . .$. :Formal class
'Polygon' [package "sp"] with 5 slots . . . . .@ labpt : num [1:2] -78.55 2.42 . . .
. . . . .@ area : num 0.000146 . . . . .@ hole : logi TRUE . . . . .@ ringDir: int -1 . . .
. . . . .@ coords : num [1:5, 1:2] -78.5 -78.5 -78.6 -78.6 -78.5 . . . . .@ plotOrder: int [1:11] 1 2
3 4 5 6 7 8 9 10 . . . . .@ labpt : num [1:2] -73.05 3.89 . . . . .@ ID : chr "COL" . . .
. . . . .@ area : num 92.6 . . . $. :Formal class 'Polygons' [package "sp"] with 5 slots . . .
. . . . .@ Polygons :List of 2

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... . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2]
-84.1 9.91 ... . . . . . .@ area : num 4.55 ... . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 ... . . . . . .@ coords : num [1:23, 1:2] -85.1 -83.9 -83.6 -82.6 -82.9 ... . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -85.2 10.1 .. . . . . . .@ area : num 0.00302 ... . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 .. . . . . . .@ coords : num [1:6, 1:2] -85.1 -85.2 -85.2 -85.1 ... . . . . . .@ plotOrder: int [1:2] 1 2 .. . . . . .@ labpt : num [1:2] -84.1 9.91 ... . . . . . .@ ID : chr "CRI" .. . . . . .@ area : num 4.55 ... . . . :Formal class 'Polygons' [package "sp"] with 5 slots ... . . . . . .@ Polygons :List of 1 .. . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] 20.47 6.56 .. . . . . . .@ area : num 50.4 ... . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 .. . . . . . .@ coords : num [1:36, 1:2] 19.1 19 20.4 21.7 21.7 ... . . . . . .@ plotOrder: int 1 .. . . . . . .@ labpt : num [1:2] 20.47 6.56 ... . . . . . .@ ID : chr "CAF" .. . . . . .@ area : num 50.4 ... . . . :Formal class 'Polygons' [package "sp"] with 5 slots ... . . . . . .@ Polygons :List of 26 .. . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -78.9 21.6 .. . . . . . .@ area : num 8.69 ... . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 .. . . . . . .@ coords : num [1:37, 1:2] -82 -81.6 -81.5 -81.2 -81.3 ... . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -82.9 21.7 .. . . . . . .@ area : num 0.141 .. . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 .. . . . . . .@ coords : num [1:7, 1:2] -82.5 -82.9 -83.2 -82.9 -83.1 ... . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -78.5 22.5 .. . . . . . .@ area : num 0.0208 .. . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 .. . . . . . .@ coords : num [1:4, 1:2] -78.3 -78.4 -78.7 -78.3 22.5 ... . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -78.1 22.4 .. . . . . . .@ area : num 0.0151 .. . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 .. . . . . . .@ coords : num [1:4, 1:2] -78.1 -78 -78.3 -78.1 22.4 ... . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -77.7 22 .. . . . . . .@ area : num 0.0151 .. . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 .. . . . . . .@ coords : num [1:4, 1:2] -77.9 -77.7 -77.6 -77.9 22.1 ... . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -78 22.2 .. . . . . . .@ area : num 0.0116 .. . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 .. . . . . . .@ coords : num [1:4, 1:2] -77.8 -78 -77.8 22.1 ... . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -79.5 22.7 .. . . . . . .@ area : num 0.00677 .. . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 .. . . . . . .@ coords : num [1:4, 1:2] -79.3 -79.6 -79.6 -79.3 22.6 ... . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -81.5 21.6 .. . . . . . .@ area : num 0.0033 .. . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 .. . . . . . .@ coords : num [1:4, 1:2] -81.5 -81.6 -81.4 -81.5 21.6 ... . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -79.2 21 .. . . . . . .@ area : num 0.00307 .. . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 .. . . . . . .@ coords : num [1:4, 1:2] -79.1 -79.2 -79.1 20.9 ... . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -78.4 20.6 .. . . . . . .@ area : num 0.00281 .. . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 .. . . . . . .@ coords : num [1:4, 1:2] -78.3 -78.5 -78.3 -78.3 20.5 ... . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -80.3 23 .. . . . . . .@ area : num 0.00224 .. . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 .. . . . . . .@ coords : num [1:4, 1:2] -80.2 -80.2 -80.3 -80.2 23 ... . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -75.5 20.8 .. . . . . . .@ area : num 0.00214 .. . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 .. . . . . . .@ coords : num [1:4, 1:2] -75.5 -75.6 -75.5 -75.5 20.7 ... . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -78.9 20.8 ..

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...@ area : num 0.00208 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] -78.8 -79 -78.9 -78.8 20.8 ... . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] -79 20.9 ... . . . . .@ area : num 0.00195 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] -79 -79.1 -79 -79 20.8 ... . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] -79 22.7 ... . . . . .@ area : num 0.00134 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] -79 -79.1 -79 -79 22.6 ... . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] -79.9 22.9 ... . . . . .@ area : num 0.00132 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] -79.9 -80 -79.9 -79.9 22.9 ... . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] -79.3 21.1 ... . . . . .@ area : num 0.00124 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] -79.3 -79.4 -79.3 -79.3 21.1 ... . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] -80.2 23.1 ... . . . . .@ area : num 0.00124 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] -80.1 -80.2 -80.2 -80.1 23.1 ... . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] -78.5 20.7 ... . . . . .@ area : num 0.00118 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] -78.4 -78.5 -78.5 -78.4 20.7 ... . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] -80.5 23.2 ... . . . . .@ area : num 0.00107 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] -80.5 -80.6 -80.6 -80.5 23.2 ... . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] -77.8 22.2 ... . . . . .@ area : num 0.000764 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] -78.8 -78.8 -78.8 -78.8 20.7 ... . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] -77.8 -77.8 -77.9 -77.8 22.2 ... . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] -80.9 23.1 ... . . . . .@ area : num 6e-04 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] -78.4 -78.4 -78.4 -78.4 20.6 ... . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] -80.1 23 ... . . . . .@ area : num 0.000456 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] -80 -80.1 -80.1 -80 23 ... . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] -79.4 21.1 ... . . . . .@ area : num 0.000402 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] -79.4 -79.5 -79.4 -79.4 21.1 ... . . . . .@ plotOrder: int [1:26] 1 2 3 4 5 6 7 8 9 10 ... . . . . .@ labpt : num [1:2] -78.9 21.6 ... . . . . .@ ID : chr "CUB" ... . . . . .@ area : num 8.93 ... \$. :Formal class 'Polygons' [package "sp"] with 5 slots ... . . . . .@ Polygons :List of 6 ... . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] -23.6 15.1 ... . . . . .@ area : num 0.0393 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] -23.4 -23.7 -23.8 -23.4 15 ... . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] -25.2 17 ... . . . . .@ area : num 0.033 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] -25.3 -25.3 -25 -25.3 16.9 ... . . . . .\$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] -24.3 16.6 ... . . . . .



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..$ :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . .@ labpt : num [1:2] -163.2
-18.1 .. . . . .@ area : num 0.000158 .. . . . .@ hole : logi FALSE .. . . . .@ ringDir: int 1 .. . . . .@ coords : num [1:4, 1:2] -163.2 -163.2 -163.2 -18.1 .. . . .
..$ :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . .@ labpt : num [1:2] -165.8
-10.9 .. . . . .@ area : num 0.000125 .. . . . .@ hole : logi FALSE .. . . . .@ ringDir: int 1 .. . . . .@ coords : num [1:4, 1:2] -165.8 -165.9 -165.8 -10.9 .. . . .
..$ :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . .@ labpt : num [1:2] -165.4
-11.5 .. . . . .@ area : num 0.000111 .. . . . .@ hole : logi FALSE .. . . . .@ ringDir: int 1 .. . . . .@ coords : num [1:4, 1:2] -165.4 -165.4 -165.4 -11.5 .. . . .
..@ plotOrder: int [1:15] 1 2 3 4 5 6 7 8 9 10 .. . . .@ labpt : num [1:2] -159.8 -21.2 .. . . .
@ ID : chr "COK" .. . . .@ area : num 0.00909 ..$ :Formal class 'Polygons' [package "sp"] with 5
slots .. . . .@ Polygons :List of 1 .. . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots
.. . . . .@ labpt : num [1:2] 33.3 35 .. . . . .@ area : num 0.861 .. . . . .@ hole
: logi FALSE .. . . . .@ ringDir: int 1 .. . . . .@ coords : num [1:7, 1:2] 33.7 34.6
33.9 34.1 33 .. . . .@ plotOrder: int 1 .. . . . .@ labpt : num [1:2] 33.3 35 .. . . .@ ID : chr
"CYP" .. . . .@ area : num 0.861 ..$ :Formal class 'Polygons' [package "sp"] with 5 slots ..
.. . .@ Polygons :List of 18 .. . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots ..
.. . . .@ labpt : num [1:2] 9.26 56.02 .. . . . .@ area : num 3.38 .. . . . .@ hole : logi
FALSE .. . . . .@ ringDir: int 1 .. . . . .@ coords : num [1:28, 1:2] 9.97 10.31 10.31
9.87 10.96 .. . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . .@ labpt
: num [1:2] 11.8 55.5 .. . . . .@ area : num 1.06 .. . . . .@ hole : logi FALSE .. . . .
.. . .@ ringDir: int 1 .. . . . .@ coords : num [1:10, 1:2] 12.6 12.2 12.5 12.1 11.2 .. . . .
..$ :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . .@ labpt : num [1:2] 9.56 57.2
.. . . . .@ area : num 0.737 .. . . . .@ hole : logi FALSE .. . . . .@ ringDir: int 1
.. . . . .@ coords : num [1:13, 1:2] 10.43 10.34 10.01 9.24 9.12 .. . . . .$ :Formal class
'Polygon' [package "sp"] with 5 slots .. . . . .@ labpt : num [1:2] 10.3 55.3 .. . . . .@ area
: num 0.406 .. . . . .@ hole : logi FALSE .. . . . .@ ringDir: int 1 .. . . . .@ coords
: num [1:16, 1:2] 10.7 10.8 10.5 10.2 10.1 .. . . . .$ :Formal class 'Polygon' [package
"sp"] with 5 slots .. . . . .@ labpt : num [1:2] 11.9 54.8 .. . . . .@ area : num 0.0561 ..
.. . . . .@ hole : logi FALSE .. . . . .@ ringDir: int 1 .. . . . .@ coords : num [1:4,
1:2] 12 12 11.7 12 54.9 .. . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots ..
.. . . .@ labpt : num [1:2] 11.5 54.8 .. . . . .@ area : num 0.045 .. . . . .@ hole : logi
FALSE .. . . . .@ ringDir: int 1 .. . . . .@ coords : num [1:4, 1:2] 11.5 11.9 11 11.5
54.8 .. . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . .@ labpt : num
[1:2] 14.8 55.1 .. . . . .@ area : num 0.0399 .. . . . .@ hole : logi FALSE .. . . .
.. . .@ ringDir: int 1 .. . . . .@ coords : num [1:4, 1:2] 15.1 14.7 14.7 15.1 55 .. . . .
..$ :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . .@ labpt : num [1:2] 8.73 56.78
.. . . . .@ area : num 0.033 .. . . . .@ hole : logi FALSE .. . . . .@ ringDir: int
1 .. . . . .@ coords : num [1:4, 1:2] 8.92 8.77 8.51 8.92 56.92 .. . . . .$ :Formal class
'Polygon' [package "sp"] with 5 slots .. . . . .@ labpt : num [1:2] 10.8 54.9 .. . . . .@ area
: num 0.027 .. . . . .@ hole : logi FALSE .. . . . .@ ringDir: int 1 .. . . . .@ coords
: num [1:4, 1:2] 10.8 10.7 10.9 10.8 54.8 .. . . . .$ :Formal class 'Polygon' [package
"sp"] with 5 slots .. . . . .@ labpt : num [1:2] 12.3 55 .. . . . .@ area : num 0.0231 ..
.. . . . .@ hole : logi FALSE .. . . . .@ ringDir: int 1 .. . . . .@ coords : num [1:4,
1:2] 12.6 12.1 12.3 12.6 55 .. . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots ..
.. . . . .@ labpt : num [1:2] 9.83 55 .. . . . .@ area : num 0.0198 .. . . . .@ hole
: logi FALSE .. . . . .@ ringDir: int 1 .. . . . .@ coords : num [1:4, 1:2] 9.79 10.07
9.63 9.79 55.07 .. . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . .@
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labpt : num [1:2] 10.6 55.9 ... ... ... ... ...@ area : num 0.0113 ... ... ... ... ...@ hole : logi FALSE
... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 10.6 10.5 10.5 10.6 55.9 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2]
11 57.3 ... ... ... ... ...@ area : num 0.0102 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir:
int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 11.2 11 10.9 11.2 57.3 ... ... ... ... ...$ :Formal
class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 12.6 55.6 ... ... ... ...
...@ area : num 0.00665 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ...
... ... ...@ coords : num [1:4, 1:2] 12.6 12.6 12.7 12.6 55.6 ... ... ... ... ...$ :Formal class 'Polygon'
[package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 10.6 55 ... ... ... ... ...@ area : num
0.00589 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords
: num [1:4, 1:2] 10.6 10.5 10.6 10.6 55 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with
5 slots ... ... ... ... ...@ labpt : num [1:2] 8.43 55.41 ... ... ... ... ...@ area : num 0.00444 ...
... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2]
8.46 8.36 8.46 8.46 55.33 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ...@ labpt : num [1:2] 10.3 54.9 ... ... ... ... ...@ area : num 0.0044 ... ... ... ... ...@ hole :
logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 10.4 10.2 10.2
10.4 54.8 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt
: num [1:2] 11.6 56.7 ... ... ... ... ...@ area : num 0.00316 ... ... ... ... ...@ hole : logi FALSE
... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 11.6 11.5 11.6 11.6 56.7
... ... ... ... ...@ plotOrder: int [1:18] 1 2 3 4 5 6 7 8 9 10 ... ... ... ...@ labpt : num [1:2] 9.26 56.02
... ... ...@ ID : chr "DNK" ... ... ...@ area : num 5.87 ... ...$ :Formal class 'Polygons' [package "sp"]
with 5 slots ... ... ...@ Polygons :List of 1 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with
5 slots ... ... ... ... ...@ labpt : num [1:2] 42.6 11.8 ... ... ... ... ...@ area : num 1.79 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:10, 1:2] 42.9
43.2 42.9 41.8 41.8 ... ... ... ...@ plotOrder: int 1 ... ... ... ...@ labpt : num [1:2] 42.6 11.8 ...
... ...@ ID : chr "DJI" ... ... ...@ area : num 1.79 ... ...$ :Formal class 'Polygons' [package "sp"] with 5 slots
... ... ... ... ...@ Polygons :List of 1 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -61.4 15.4 ... ... ... ... ...@ area : num 0.0356 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -61.4 -61.5
-61.3 -61.4 15.2 ... ... ... ...@ plotOrder: int 1 ... ... ... ...@ labpt : num [1:2] -61.4 15.4 ...
... ... ... ...@ ID : chr "DMA" ... ... ...@ area : num 0.0356 ... ...$ :Formal class 'Polygons' [package "sp"] with 5 slots
... ... ... ... ...@ Polygons :List of 3 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -70.5 18.9 ... ... ... ... ...@ area : num 4.02 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:18, 1:2] -70.8 -69.9 -69.8
-69.2 -69.6 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt
: num [1:2] -68.7 18.1 ... ... ... ... ...@ area : num 0.00615 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -68.6 -68.7 -68.8 -68.6 18.1 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2]
-71.5 17.6 ... ... ... ... ...@ area : num 0.00239 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -71.5 -71.5 -71.5 17.5 ...
... ... ... ... ...@ plotOrder: int [1:3] 1 2 3 ...
... ... ... ...@ labpt : num [1:2] -70.5 18.9 ...
... ... ... ...@ ID : chr "DOM" ...
... ... ... ...@ area : num 4.03 ...
... ...$ :Formal class 'Polygons' [package "sp"] with 5 slots ...
... ... ... ... ...@ Polygons :List of 14 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -78.4 -1.45 ...
... ... ... ... ...@ area : num 20.3 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:29, 1:2] -78.6 -77.4 -76.2 -75.3 -75.6 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -91.167
-0.445 ...
... ... ... ... ...@ area : num 0.259 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:6, 1:2] -91.2 -90.8 -91.4 -91.1 -91.6 ...
... ... ... ... ...$
```

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:Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -80.1 -2.83 ...
... ... ... ... ...@ area : num 0.0472 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -80.19 -80.21 -79.9 -80.19 -3.03 ... ... ... ... ...$ :Formal
class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -90.329 -0.626 ...
... ... ... ... ...@ area : num 0.0345 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -90.261 -90.535 -90.191 -90.261 -0.751 ... ... ... ... ...$ :Formal
class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -89.44 -0.85 ...
... ... ... ... ...@ area : num 0.024 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -89.444 -89.629 -89.259 -89.444 -0.937 ... ... ... ... ...$ :Formal
class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -91.545 -0.353 ...
... ... ... ... ...@ area : num 0.023 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -91.499 -91.664 -91.471 -91.499 -0.496 ... ... ... ... ...$ :Formal
class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -90.738 -0.241 ...
... ... ... ... ...@ area : num 0.0211 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -90.548 -90.874 -90.793 -90.548 -0.305 ... ... ... ... ...$ :Formal
class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -90.43 -1.28 ...
... ... ... ... ...@ area : num 0.0067 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -90.43 -90.48 -90.37 -90.43 -1.36 ... ... ... ... ...$ :Formal
class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -78.94 1.29 ...
... ... ... ... ...@ area : num 0.00573 ... ... ... ... ...@ hole : logi TRUE ... ... ... ... ...@ ringDir: int -1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -78.91 -78.9 -79 -78.91 1.24 ... ... ... ... ...$ :Formal
class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -90.467 0.313 ...
... ... ... ... ...@ area : num 0.00426 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -90.459 -90.533 -90.408 -90.459 0.266 ... ... ... ... ...$ :Formal
class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -79.86 -2.58 ...
... ... ... ... ...@ area : num 0.0041 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -79.84 -79.89 -79.86 -79.84 -2.64 ... ... ... ... ...$ :Formal
class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -89.67 -1.37 ...
... ... ... ... ...@ area : num 0.00348 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -89.62 -89.75 -89.65 -89.62 -1.41 ... ... ... ... ...$ :Formal
class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -90.781 0.588 ...
... ... ... ... ...@ area : num 0.00221 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -90.751 -90.8 -90.792 -90.751 0.548 ... ... ... ... ...$ :Formal
class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -90.055 -0.816 ...
... ... ... ... ...@ area : num 0.000641 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -90.043 -90.082 -90.04 -90.043 -0.839 ... ... ... ...@ plotOrder: int [1:14] 1 2 3 4 5 6 7 8 9 10 ...
... ... ... ... ...@ labpt : num [1:2] -78.4 -1.45 ...
... ... ... ... ...@ ID: chr "ECU" ...
... ... ... ... ...@ area : num 20.8 ...
...$ :Formal class 'Polygons' [package "sp"] with 5 slots ...
... ... ...@ Polygons :List of 6 ...
...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ...@ labpt : num [1:2] 29.9 26.5 ...
... ... ... ...@ area : num 90.8 ...
... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ...
... ... ... ...@ coords : num [1:38, 1:2] 25.3 27.3 29.1 31 31.9 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] 34 27.5 ...
... ... ... ...@ area : num 0.00284 ...
... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ...
... ... ... ...@ coords : num [1:4, 1:2] 34 34 33.9 34 27.5 ...
... ... ... ...$ :Formal
class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] 33.1 31.2 ...
... ... ... ...@ area : num 0.00177 ...
... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ...
... ... ... ...@ coords : num [1:6, 1:2] 33.2 33.3 33.1 33 33.1 ...
... ... ... ...$ :Formal class 'Polygon'
[package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] 33.4 31.2 ...
... ... ... ...@ area :
```

num 0.00168 ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @  
 coords : num [1:4, 1:2] 33.5 33.3 33.4 33.5 31.1 ... ... ... ... ... \$. :Formal class 'Polygon' [package  
 "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 34 26.7 ... ... ... ... ... @ area : num 0.000609 ...  
 ... ... ... ... ... @ hole : logi TRUE ... ... ... ... ... @ ringDir: int -1 ... ... ... ... ... @ coords : num [1:4,  
 1:2] 34 34 34 34 26.7 ... ... ... ... ... \$. :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ...  
 ... ... ... ... ... @ labpt : num [1:2] 32 31.2 ... ... ... ... ... @ area : num 4.27e-05 ... ... ... ... ... @ hole : logi  
 FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] 32 32 32 32 31.1 ...  
 ... ... ... ... ... @ plotOrder: int [1:6] 1 2 3 4 5 6 ... ... ... ... @ labpt : num [1:2] 29.9 26.5 ... ... ... ... @ ID : chr  
 "EGY" ... ... ... ... @ area : num 90.8 ... ... \$. :Formal class 'Polygons' [package "sp"] with 5 slots ... ...  
 ... ... @ Polygons :List of 5 ... ... ... ... \$. :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ...  
 ... ... ... ... ... @ labpt : num [1:2] -8.08 53.21 ... ... ... ... ... @ area : num 9.2 ... ... ... ... ... @ hole : logi  
 FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:37, 1:2] -7.41 -8.16 -7.56  
 -7.03 -6.27 ... ... ... ... ... \$. :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt  
 : num [1:2] -10.1 54 ... ... ... ... ... @ area : num 0.0218 ... ... ... ... ... @ hole : logi FALSE ... ... ...  
 ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] -9.96 -9.96 -10.27 -9.96 54.02 ...  
 ... ... ... ... ... \$. :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] -9.68  
 53.26 ... ... ... ... ... @ area : num 0.00187 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @  
 ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] -9.66 -9.72 -9.66 -9.66 53.22 ... ... ... ... ... \$.  
 :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] -8.52 54.99  
 ... ... ... ... ... @ area : num 0.0011 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir:  
 int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] -8.52 -8.55 -8.49 -8.52 54.96 ... ... ... ... ... \$. :Formal  
 class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] -8.44 54.95 ... ... ...  
 ... ... ... ... ... @ area : num 8.3e-05 ... ... ... ... ... @ hole : logi TRUE ... ... ... ... ... @ ringDir: int -1 ...  
 ... ... ... ... ... @ coords : num [1:4, 1:2] -8.44 -8.44 -8.45 -8.44 54.94 ... ... ... ... ... @ plotOrder: int [1:5]  
 1 2 3 4 5 ... ... ... ... @ labpt : num [1:2] -8.08 53.21 ... ... ... ... @ ID : chr "IRL" ... ... ... @ area : num  
 9.22 ... ... \$. :Formal class 'Polygons' [package "sp"] with 5 slots ... ... ... ... @ Polygons :List of 3 ...  
 ... ... \$. :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 10.44  
 1.58 ... ... ... ... ... @ area : num 2.11 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir:  
 int 1 ... ... ... ... ... @ coords : num [1:7, 1:2] 10.03 11.34 11.35 9.8 9.36 ... ... ... ... ... \$. :Formal  
 class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 8.71 3.55 ... ... ...  
 ... ... ... ... ... @ area : num 0.0987 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ...  
 ... ... ... ... ... @ coords : num [1:5, 1:2] 8.86 8.45 8.69 8.96 8.86 ... ... ... ... ... \$. :Formal class 'Polygon'  
 [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 5.63 -1.45 ... ... ... ... ... @ area :  
 num 0.000686 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @  
 coords : num [1:4, 1:2] 5.64 5.62 5.63 5.64 -1.47 ... ... ... ... ... @ plotOrder: int [1:3] 1 2 3 ... ...  
 @ labpt : num [1:2] 10.44 1.58 ... ... ... ... @ ID : chr "GNQ" ... ... ... @ area : num 2.21 ... ... \$. :Formal  
 class 'Polygons' [package "sp"] with 5 slots ... ... ... ... @ Polygons :List of 6 ... ... ... ... \$. :Formal class  
 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 25.9 58.7 ... ... ... ... @  
 area : num 6.67 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @  
 coords : num [1:16, 1:2] 25.8 28 28.2 27.4 27.8 ... ... ... ... ... \$. :Formal class 'Polygon' [package  
 "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 22.5 58.4 ... ... ... ... ... @ area : num 0.46 ...  
 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:6,  
 1:2] 23 23.3 22 22.2 21.8 ... ... ... ... ... \$. :Formal class 'Polygon' [package "sp"] with 5 slots ... ...  
 ... ... ... ... ... @ labpt : num [1:2] 22.6 58.9 ... ... ... ... ... @ area : num 0.0667 ... ... ... ... ... @ hole :  
 logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] 22.7 23 22 22.7  
 59 ... ... ... ... ... \$. :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num  
 [1:2] 23.2 58.6 ... ... ... ... ... @ area : num 0.0171 ... ... ... ... ... @ hole : logi FALSE ... ...  
 ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] 23.4 23.1 23.2 23.4 58.5 ... ...

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..$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 23.3 59
... ... ... ... ...@ area : num 0.00644 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir:
int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 23.3 23.1 23.4 23.3 59 ... ... ... ... ...$ :Formal class
'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 24 58.1 ... ... ... ... ...@ area : num 0.00166 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ...
...@ coords : num [1:4, 1:2] 24 23.9 24 24 58.1 ... ... ... ...@ plotOrder: int [1:6] 1 2 3 4 5 6 ... ...
...@ labpt : num [1:2] 25.9 58.7 ... ... ...@ ID : chr "EST" ... ... ...@ area : num 7.23 ...$ :Formal
class 'Polygons' [package "sp"] with 5 slots ... ... ... ...@ Polygons :List of 3 ... ... ... ...$ :Formal class
'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 38.9 15.3 ... ... ... ... ...@ area : num 10.4 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ...
...@ coords : num [1:20, 1:2] 38.8 39.7 39.9 40.2 41.2 ... ... ... ... ...$ :Formal class 'Polygon' [package
"sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 40.2 15.7 ... ... ... ... ...@ area : num 0.0562
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num
[1:4, 1:2] 40.1 40.4 40 40.1 15.9 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots
... ... ... ... ...@ labpt : num [1:2] 40 16.1 ... ... ... ... ...@ area : num 0.00445 ... ... ... ...
...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 40.1 40
40 40.1 16.1 ... ... ... ...@ plotOrder: int [1:3] 1 2 3 ... ... ...@ labpt : num [1:2] 38.9 15.3 ... ...
...@ ID : chr "ERI" ... ... ...@ area : num 10.4 ...$ :Formal class 'Polygons' [package "sp"] with 5
slots ... ... ... ...@ Polygons :List of 2 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots
... ... ... ... ...@ labpt : num [1:2] -88.9 13.7 ... ... ... ...@ area : num 1.52 ... ... ...
...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:9, 1:2] -89.3
-88.5 -87.8 -87.9 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ...@ labpt : num [1:2] -87.7 13.2 ... ... ... ... ...@ area : num 0.000823 ... ... ...
...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -87.7 -87.7
-87.7 -87.7 13.2 ... ... ... ...@ plotOrder: int [1:2] 1 2 ... ... ...@ labpt : num [1:2] -88.9 13.7 ...
...@ ID : chr "SLV" ... ... ...@ area : num 1.52 ...$ :Formal class 'Polygons' [package "sp"] with 5
slots ... ... ... ...@ Polygons :List of 1 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots
... ... ... ... ...@ labpt : num [1:2] 39.63 8.61 ... ... ... ...@ area : num 92.8 ... ...
...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:39, 1:2] 36.5 37.3
37.6 37.9 38.4 ... ... ... ...@ plotOrder: int 1 ... ... ... ...@ labpt : num [1:2] 39.63 8.61 ...
... ... ...@ ID : chr "ETH" ... ... ...@ area : num 92.8 ...$ :Formal class 'Polygons' [package "sp"] with 5 slots
... ... ... ...@ Polygons :List of 1 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ...@ labpt : num [1:2] 14.2 47.6 ... ... ... ...@ area : num 10.2 ... ...
...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ...
...@ coords : num [1:25, 1:2] 13.8 14.7 15
16.9 17.2 ... ... ... ...@ plotOrder: int 1 ... ... ... ...@ labpt : num [1:2] 14.2 47.6 ...
... ... ...@ ID : chr "AUT" ... ... ...@ area : num 10.2 ...$ :Formal class 'Polygons' [package "sp"] with 5 slots ...
... ... ...@ Polygons :List of 1 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] 15.3 49.8 ... ...
...@ area : num 10.2 ... ... ...
...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ... ...
...@ coords : num [1:18, 1:2] 14.7 13.8 12.7 12.1 14.3 ...
... ... ... ...@ plotOrder: int 1 ... ...
...@ labpt : num [1:2] 15.3 49.8 ...
...@ ID : chr "CZE" ...
... ... ...@ area : num 10.2 ...$ :Formal class 'Polygons' [package "sp"] with 5 slots ...
... ... ...
...@ Polygons :List of 1 ... ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ...
...@ labpt : num [1:2] -53.25 3.89 ...
... ... ... ...@ area : num 6.55 ...
... ... ...
...@ hole : logi FALSE ...
... ... ...
...@ ringDir: int 1 ...
... ... ...
...@ coords : num [1:12, 1:2] -53.5 -52.3 -52 -51.9 -51.7 ...
... ... ...
...@ plotOrder: int 1 ...
... ... ...
...@ labpt : num [1:2] -53.25 3.89 ...
... ... ...
...@ ID : chr "GUF" ...
... ... ...
...@ area : num 6.55 ...$ :Formal class 'Polygons' [package "sp"] with 5 slots ...
... ...
...@ Polygons :List of 26 ...
... ...
... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ...
... ... ...@ labpt : num [1:2] 26.2 64.5 ...
... ...
...@ area : num 61.3 ...
... ...
...@ hole : logi FALSE ...
... ...
... ...
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... ... ..@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:60, 1:2] 28.2 29.2 28.8 29 28.4 ... ... ...
...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 22.6 60.1
... ... ... ... ...@ area : num 0.0374 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir:
int 1 ... ... ... ... ...@ coords : num [1:5, 1:2] 22.8 22.5 22.4 22.6 22.8 ... ... ... ... ...$ :Formal class
'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 24.8 65 ... ... ... ... ...@ area :
num 0.0205 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ...
...@ coords : num [1:4, 1:2] 24.7 24.6 25 24.7 64.9 ... ... ... ... ...$ :Formal class 'Polygon' [package
"sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 21.3 63.2 ... ... ... ... ...@ area : num 0.0167 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4,
1:2] 21.1 21.4 21.2 21.1 63.3 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 21.9 60.4 ... ... ... ... ...@ area : num 0.00939 ... ... ... ... ...@ hole :
logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 22 21.8 21.8 22
60.3 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num
[1:2] 22.8 63.8 ... ... ... ... ...@ area : num 0.00797 ... ... ... ... ...@ hole : logi FALSE ... ... ...
...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 22.9 22.7 22.8 22.9 63.8 ... ... ... ... ...$ :
Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 23.5 59.9 ...
... ... ... ... ...@ area : num 0.00688 ... ... ... ... ...@ hole : logi TRUE ... ... ... ... ...@ ringDir: int
-1 ... ... ... ... ...@ coords : num [1:4, 1:2] 23.7 23.5 23.4 23.7 59.9 ... ... ... ... ...$ :Formal class
'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 22.9 59.9 ... ... ... ... ...@ area :
num 0.00671 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ...
...@ coords : num [1:4, 1:2] 22.8 23.1 22.9 22.8 60 ... ... ... ... ...$ :Formal class 'Polygon' [package
"sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 21.8 60.2 ... ... ... ... ...@ area : num 0.00598 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4,
1:2] 21.7 21.7 21.9 21.7 60.1 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 22.2 60.3 ... ... ... ... ...@ area : num 0.00516 ... ... ...
...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 22.3 22.1
22.1 22.3 60.3 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ...
...@ labpt : num [1:2] 21.4 60.5 ... ... ... ... ...@ area : num 0.00466 ... ... ... ... ...@ hole : logi FALSE
... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 21.5 21.4 21.3 21.5 60.5 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2]
22.1 63.3 ... ... ... ... ...@ area : num 0.00421 ... ... ... ... ...@ hole : logi FALSE ... ... ...
...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 22.2 22 22.2 22.2 63.3 ... ... ...
...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 21.6 60.1 ...
... ... ... ... ...@ area : num 0.0037 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] 21.6 21.5 21.7 21.6 60.1 ... ... ... ... ...$ :Formal class 'Polygon'
[package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 22 60.2 ... ... ... ... ...@ area : num
0.00357 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ...
... ... ... ... ...@ coords : num [1:4, 1:2] 22 21.9 22.1 22 60.1 ... ... ... ... ...$ :Formal class 'Polygon' [package
"sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 21.3 63.3 ... ... ... ... ...@ area : num 0.00343 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ...
... ... ... ... ...@ coords : num [1:4, 1:2] 21.3 21.2 21.4 21.3 63.3 ... ... ... ... ...$ :Formal class 'Polygon' [package
"sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 22.4 60 ... ... ... ... ...@ area : num 0.00339 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ...
... ... ... ... ...@ coords : num [1:4, 1:2] 22.4 22.4 22.4 22.4 60 ... ... ... ... ...$ :Formal class 'Polygon' [package
"sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 21.3 60.9 ...
... ... ... ... ...@ area : num 0.00285 ... ... ... ... ...@ hole : logi FALSE ... ... ...
... ... ... ... ...@ ringDir:

```

```

int 1 .. . . . . . . . .@ coords : num [1:4, 1:2] 21.3 21.3 21.4 21.3 60.9 .. . . . . . . . .$. :Formal class
'Polygon' [package "sp"] with 5 slots .. . . . . . . . .@ labpt : num [1:2] 25.6 60.2 .. . . . . . . . .
.. @ area : num 0.0028 .. . . . . . . . .@ hole : logi TRUE .. . . . . . . . .@ ringDir: int -1 .. . . .
.. . . . . . . . .@ coords : num [1:4, 1:2] 25.7 25.6 25.6 25.7 60.2 .. . . . . . . . $. :Formal class 'Polygon'
[package "sp"] with 5 slots .. . . . . . . . .@ labpt : num [1:2] 21.3 60.5 .. . . . . . . . .@ area : num
0.00205 .. . . . . . . . .@ hole : logi FALSE .. . . . . . . . .@ ringDir: int 1 .. . . . . . . . .@ coords :
num [1:4, 1:2] 21.3 21.3 21.2 21.3 60.5 .. . . . . . . . $. :Formal class 'Polygon' [package "sp"] with
5 slots .. . . . . . . . .@ labpt : num [1:2] 21.3 60.6 .. . . . . . . . .@ area : num 0.00194 .. . . . .
.. @ hole : logi FALSE .. . . . . . . . .@ ringDir: int 1 .. . . . . . . . .@ coords : num [1:4, 1:2] 21.3
21.3 21.2 21.3 60.6 .. . . . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . .
.. . @ labpt : num [1:2] 22.3 60.2 .. . . . . . . . .@ area : num 0.0018 .. . . . . . . . .@ hole : logi
FALSE .. . . . . . . . .@ ringDir: int 1 .. . . . . . . . .@ coords : num [1:4, 1:2] 22.2 22.2 22.3 22.2
60.2 .. . . . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . . . .@ labpt : num
[1:2] 21.7 60.5 .. . . . . . . . .@ area : num 0.00162 .. . . . . . . . .@ hole : logi FALSE .. . . . .
.. . @ ringDir: int 1 .. . . . . . . . .@ coords : num [1:5, 1:2] 21.8 21.7 21.7 21.8 21.8 .. . . . .
.. $. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . . . .@ labpt : num [1:2] 21.4 60.2 ..
.. . . . . . . . .@ area : num 0.00146 .. . . . . . . . .@ hole : logi FALSE .. . . . . . . . .@ ringDir:
int 1 .. . . . . . . . .@ coords : num [1:4, 1:2] 21.4 21.4 21.3 21.4 60.2 .. . . . . . . . $. :Formal class
'Polygon' [package "sp"] with 5 slots .. . . . . . . . .@ labpt : num [1:2] 25.8 60.2 .. . . . . . . .
.. @ area : num 0.00041 .. . . . . . . . .@ hole : logi FALSE .. . . . . . . . .@ ringDir: int 1 .. . .
.. . . . . . . .@ coords : num [1:4, 1:2] 25.8 25.8 25.9 25.8 60.2 .. . . . . . . . $. :Formal class 'Polygon'
[package "sp"] with 5 slots .. . . . . . . . .@ labpt : num [1:2] 24.5 65.8 .. . . . . . . . .@ area : num
0.00033 .. . . . . . . . .@ hole : logi FALSE .. . . . . . . . .@ ringDir: int 1 .. . . . . . . . .@ coords :
num [1:4, 1:2] 24.5 24.4 24.5 24.5 65.8 .. . . . . . . . .@ plotOrder: int [1:26] 1 2 3 4 5 6 7 8 9 10 ...
.. . . . . . . . .@ labpt : num [1:2] 26.2 64.5 .. . . . . . . . .@ ID : chr "FIN" .. . . . . . . . .@ area : num 61.5 ... $. :Formal
class 'Polygons' [package "sp"] with 5 slots .. . . . . . . . .@ Polygons :List of 37 .. . . . . . . . $. :Formal
class 'Polygon' [package "sp"] with 5 slots .. . . . . . . . .@ labpt : num [1:2] 178 -17.8 .. . . . .
.. . @ area : num 0.674 .. . . . . . . . .@ hole : logi FALSE .. . . . . . . . .@ ringDir: int 1 .. . . .
.. . . . . . . . .@ coords : num [1:5, 1:2] 178 179 177 178 178 .. . . . . . . . $. :Formal class 'Polygon' [package
"sp"] with 5 slots .. . . . . . . . .@ labpt : num [1:2] 179.3 -16.6 .. . . . . . . . .@ area : num 0.393
.. . . . . . . . .@ hole : logi FALSE .. . . . . . . . .@ ringDir: int 1 .. . . . . . . . .@ coords : num
[1:11, 1:2] 180 179 180 180 180 .. . . . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots
.. . . . . . . . .@ labpt : num [1:2] 178 -19 .. . . . . . . . .@ area : num 0.0284 .. . . . . . . . .@ hole
: logi FALSE .. . . . . . . . .@ ringDir: int 1 .. . . . . . . . .@ coords : num [1:4, 1:2] 178 178 178
178 -19 .. . . . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . . . .@ labpt :
num [1:2] -179.9 -16.8 .. . . . . . . . .@ area : num 0.0122 .. . . . . . . . .@ hole : logi FALSE .. . .
.. . . . . . . . .@ ringDir: int 1 .. . . . . . . . .@ coords : num [1:4, 1:2] -180 -180 -180 -180 -17 ...
.. . . . . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . . . .@ labpt : num [1:2] 179.9
-16.9 .. . . . . . . . .@ area : num 0.00802 .. . . . . . . . .@ hole : logi FALSE .. . . . . . . . .@ ringDir:
int 1 .. . . . . . . . .@ coords : num [1:4, 1:2] 180 180 180 180 -17 .. . . . . . . . $. :Formal
class 'Polygon' [package "sp"] with 5 slots .. . . . . . . . .@ labpt : num [1:2] 179 -18 .. . . . .
.. . . . . . . . .@ area : num 0.0062 .. . . . . . . . .@ hole : logi FALSE .. . . . . . . . .@ ringDir: int 1 .. .
.. . . . . . . . .@ coords : num [1:4, 1:2] 179.4 179.2 179.3 179.4 -18.1 .. . . . . . . . $. :Formal class 'Polygon'
[package "sp"] with 5 slots .. . . . . . . . .@ labpt : num [1:2] -179 -17.2 .. . . . . . . . .@ area : num
0.00604 .. . . . . . . . .@ hole : logi FALSE .. . . . . . . . .@ ringDir: int 1 .. . . . . . . . .@ coords :
num [1:4, 1:2] -178.9 -179 -179 -178.9 -17.3 .. . . . . . . . $. :Formal class 'Polygon' [package "sp"]
with 5 slots .. . . . . . . . .@ labpt : num [1:2] 179.9 -18.6 .. . . . . . . . .@ area : num 0.00549 ..
.. . . . . . . . .@ hole : logi FALSE .. . . . . . . . .@ ringDir: int 1 .. . . . . . . . .@ coords : num

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[1:4, 1:2] 179.9 179.8 180 179.9 -18.6 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5
slots ... ... ... ... ...@ labpt : num [1:2] 179.4 -17.3 ... ... ... ... ...@ area : num 0.00548 ... ...
... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2]
179.4 179.4 179.4 179.4 -17.4 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 178.8 -17.7 ... ... ... ... ...@ area : num 0.00408 ... ...
... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 178.8
178.7 178.8 178.8 -17.7 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 177.5 -16.7 ... ... ... ... ...@ area : num 0.00325 ... ...
... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 177.4 177.6
177.6 177.4 -16.8 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -178.3 -17.9 ... ... ... ... ...@ area : num 0.003 ... ...
... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -178 -178 -178 -178
-18 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -180 -16.5 ... ... ... ... ...@ area : num 0.00297 ... ...
... ... ...@ hole : logi FALSE ... ...
... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -180 -180 -179.9 -180 -16.5 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 177.2
-17.1 ... ... ... ... ...@ area : num 0.00275 ... ...
... ... ...@ hole : logi FALSE ... ...
... ... ...@ ringDir: int 1 ... ...
... ... ...@ coords : num [1:4, 1:2] 177.3 177.2 177.3 177.3 -17.1 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -178.8 -18.2 ...
... ... ...@ area : num 0.00214 ... ...
... ... ...@ hole : logi FALSE ... ...
... ... ...@ ringDir: int 1 ...
... ... ...@ coords : num [1:4, 1:2] -178.8 -178.8 -178.7 -178.8 -18.2 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -179 -18 ...
... ... ...@ area : num 0.00191 ...
... ... ...@ hole : logi FALSE ... ...
... ... ...@ ringDir: int 1 ...
... ... ...@ coords : num [1:4, 1:2] -179 -179 -179 -179 -18 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 179.9 -16.6 ...
... ... ...@ area : num 0.00141 ...
... ... ...@ hole : logi FALSE ... ...
... ... ...@ ringDir: int 1 ...
... ... ...@ coords : num [1:4, 1:2] 179.8 179.7 179.8 179.8 -19.2 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -178.6 -19.2 ...
... ... ...@ area : num 0.00138 ...
... ... ...@ hole : logi FALSE ...
... ... ...@ ringDir: int 1 ...
... ... ...@ coords : num [1:4, 1:2] -178.5
-178.6 -178.6 -178.5 -19.2 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 177.1 -12.5 ...
... ... ...@ area : num 0.00137 ...
... ... ...@ hole : logi FALSE ...
... ... ...@ ringDir: int 1 ...
... ... ...@ coords : num [1:4, 1:2] 177.1 177 177.1
177.1 -12.5 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 177.6 -18.5 ...
... ... ...@ area : num 0.00133 ...
... ... ...@ hole : logi FALSE ...
... ... ...@ ringDir: int 1 ...
... ... ...@ coords : num [1:4, 1:2] 177.7 177.6 177.6 177.7 -18.6 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 178.5 -18.9 ...
... ... ...@ area : num 0.00123 ...
... ... ...@ hole : logi FALSE ...
... ... ...@ ringDir: int 1 ...
... ... ...@ coords : num [1:4, 1:2] 178.5 178.5 178.5 178.5 -18.9 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 178.3
-16.8 ...
... ... ...@ area : num 0.00112 ...
... ... ...@ hole : logi FALSE ...
... ... ...@ ringDir: int 1 ...
... ... ...@ coords : num [1:4, 1:2] 178.3 178.3 178.3 178.3 -16.8 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 177.1 -17.3
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...@ area : num 0.00105 ... ... ... ... @ hole : logi FALSE ... ... ... ... @ ringDir:  
 int 1 ... ... ... ... @ coords : num [1:4, 1:2] 177.1 177.1 177.1 177.1 -17.3 ... ... ... ... \$ :Formal  
 class 'Polygon' [package "sp"] with 5 slots ... ... ... ... @ labpt : num [1:2] -179.3 -17.8 ... ...  
 ... ... ... @ area : num 0.00093 ... ... ... ... @ hole : logi FALSE ... ... ... ... @ ringDir: int 1  
 ... ... ... ... @ coords : num [1:4, 1:2] -179.3 -179.3 -179.3 -17.8 ... ... ... ... \$ :Formal  
 class 'Polygon' [package "sp"] with 5 slots ... ... ... ... @ labpt : num [1:2] -179 -19 ... ...  
 ... ... ... @ area : num 9e-04 ... ... ... ... @ hole : logi FALSE ... ... ... ... @ ringDir: int 1 ...  
 ... ... ... ... @ coords : num [1:4, 1:2] -179 -179 -179 -179 -19 ... ... ... ... \$ :Formal class 'Polygon'  
 [package "sp"] with 5 slots ... ... ... ... @ labpt : num [1:2] -179.2 -17.4 ... ... ... ... @ area :  
 num 0.000816 ... ... ... ... @ hole : logi FALSE ... ... ... ... @ ringDir: int 1 ... ... ... ... @  
 coords : num [1:4, 1:2] -179.1 -179.2 -179.1 -179.1 -17.5 ... ... ... ... \$ :Formal class 'Polygon'  
 [package "sp"] with 5 slots ... ... ... ... @ labpt : num [1:2] 178.1 -18.4 ... ... ... ... @ area :  
 num 0.000799 ... ... ... ... @ hole : logi FALSE ... ... ... ... @ ringDir: int 1 ... ... ... ...  
 ... @ coords : num [1:4, 1:2] 178.1 178.1 178.1 178.1 -18.4 ... ... ... ... \$ :Formal class 'Polygon'  
 [package "sp"] with 5 slots ... ... ... ... @ labpt : num [1:2] -180 -16.2 ... ... ... ... @ area : num  
 0.00079 ... ... ... ... @ hole : logi FALSE ... ... ... ... @ ringDir: int 1 ... ... ... ... @ coords  
 : num [1:4, 1:2] -180 -180 -179.9 -180 -16.2 ... ... ... ... \$ :Formal class 'Polygon' [package "sp"]  
 with 5 slots ... ... ... ... @ labpt : num [1:2] -178.4 -19.2 ... ... ... ... @ area : num 0.000784 ...  
 ... ... ... ... @ hole : logi FALSE ... ... ... ... @ ringDir: int 1 ... ... ... ... @ coords : num [1:4,  
 1:2] -178.4 -178.4 -178.4 -178.4 -19.2 ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5  
 slots ... ... ... ... @ labpt : num [1:2] 179.4 -17.8 ... ... ... ... @ area : num 0.000719 ...  
 ... ... ... ... @ hole : logi FALSE ... ... ... ... @ ringDir: int 1 ... ... ... ... @ coords : num [1:4, 1:2]  
 179.4 179.4 179.4 179.4 -17.8 ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ...  
 ... ... ... ... @ labpt : num [1:2] -178.5 -18.7 ... ... ... ... @ area : num 0.000602 ... ... ... ... @  
 hole : logi FALSE ... ... ... ... @ ringDir: int 1 ... ... ... ... @ coords : num [1:4, 1:2] -178.5  
 -178.5 -178.5 -178.5 -18.7 ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ...  
 ... ... ... ... @ labpt : num [1:2] -179.1 -17.3 ... ... ... ... @ area : num 0.000545 ... ... ... ... @  
 hole : logi FALSE ... ... ... ... @ ringDir: int 1 ... ... ... ... @ coords : num [1:4, 1:2] -179.1  
 -179.2 -179.1 -179.1 -17.3 ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ...  
 ... ... ... ... @ labpt : num [1:2] 180 -16.5 ... ... ... ... @ area : num 0.000413 ... ... ... ... @ hole :  
 logi FALSE ... ... ... ... @ ringDir: int 1 ... ... ... ... @ coords : num [1:4, 1:2] 180 180 180  
 180 -16.5 ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... @ labpt :  
 num [1:2] -178.7 -20.7 ... ... ... ... @ area : num 0.000322 ... ... ... ... @ hole : logi FALSE ...  
 ... ... ... ... @ ringDir: int 1 ... ... ... ... @ coords : num [1:4, 1:2] -178.7 -178.7 -178.7  
 -20.7 ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... @ labpt : num  
 [1:2] -178.2 -19.8 ... ... ... ... @ area : num 0.00016 ... ... ... ... @ hole : logi FALSE ...  
 ... ... ... ... @ ringDir: int 1 ... ... ... ... @ coords : num [1:4, 1:2] -178.2 -178.2 -178.2 -19.9 ...  
 ... ... ... ... @ plotOrder: int [1:37] 1 2 3 4 5 6 7 8 9 10 ... ... ... ... @ labpt : num [1:2] 178 -17.8 ...  
 ... @ ID : chr "FJI" ... ... ... @ area : num 1.18 ... \$ :Formal class 'Polygons' [package "sp"] with 5  
 slots ... ... ... @ Polygons :List of 10 ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots  
 ... ... ... ... @ labpt : num [1:2] -58.8 -51.8 ... ... ... ... @ area : num 0.613 ... ... ... ... @  
 hole : logi FALSE ... ... ... ... @ ringDir: int 1 ... ... ... ... @ coords : num [1:15, 1:2] -58.7  
 -58.2 -58.3 -57.9 -57.8 ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ...  
 ... ... ... ... @ labpt : num [1:2] -60.1 -51.7 ... ... ... ... @ area : num 0.528 ... ... ... ... @ hole : logi  
 FALSE ... ... ... ... @ ringDir: int 1 ... ... ... ... @ coords : num [1:10, 1:2] -59.2 -60.4 -61  
 -60.2 -60.6 ... ... ... ... \$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... @ labpt :  
 num [1:2] -60.2 -51.3 ... ... ... ... @ area : num 0.0121 ... ... ... ... @ hole : logi FALSE ...  
 ... ... ... ... @ ringDir: int 1 ... ... ... ... @ coords : num [1:4, 1:2] -60.1 -60.3 -60.1 -60.1 -51.4 ...

```

... . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2]
-59.6 -51.3 . . . . . . .@ area : num 0.012 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] -59.5 -59.8 -59.5 -59.5 -51.3 . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -59.7 -52.2 .. . . . . . .@ area : num 0.00592 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . . . . . .@ coords : num [1:5, 1:2] -59.7 -59.8 -59.8 -59.7 -59.7 . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -58.5 -52 . . . . . .@ area : num 0.00521 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] -58.4 -58.5 -58.4 -58.4 -52.1 . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -61 -51.8 . . . . . . .@ area : num 0.00518 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . . . . . .@ coords : num [1:5, 1:2] -61 -60.9 -61.1 -60.9 -61 . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -61.3 -51.8 . . . . . . .@ area : num 0.00321 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] -61.2 -61.3 -61.2 -61.2 -51.9 . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -60 -51.3 . . . . . . .@ area : num 0.00292 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] -59.9 -60 -59.9 -59.9 -51.4 . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] -61.3 -51.7 . . . . . . .@ area : num 0.00225 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] -61.2 -61.3 -61.3 -61.2 -51.7 . . . . . . .@ plotOrder: int [1:10] 1 2 3 4 5 6 7 8 9 10 . . . . . .@ labpt : num [1:2] -58.8 -51.8 . . . . . . .@ ID : chr "FLK" . . . . . .@ area : num 1.19 . . . . . .$. :Formal class 'Polygons' [package "sp"] with 5 slots ... . . . . . .@ Polygons :List of 19 . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] 158.25 6.88 . . . . . . .@ area : num 0.0143 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 158.3 158.12 158.32 158.3 6.79 . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] 138.1 9.5 . . . . . . .@ area : num 0.00768 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 138.21 138.06 138.13 138.21 9.52 . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] 162.98 5.32 . . . . . . .@ area : num 0.00615 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 163.01 162.9 163.02 163.01 5.26 . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] 151.6 7.35 . . . . . . .@ area : num 0.00225 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 151.64 151.57 151.61 151.64 7.33 . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] 151.88 7.44 . . . . . . .@ area : num 0.00101 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 151.91 151.85 151.87 151.91 7.44 . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] 151.86 7.35 . . . . . . .@ area : num 0.000569 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 151.86 151.84 151.87 151.86 7.32 . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] 149.67 8.59 . . . . . . .@ area : num 0.000429 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 149.67 149.66 149.69 149.67 8.58 . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] 153.7 5.3 . . . . . . .@ area : num 0.000324 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 153.67 153.66 153.71 153.67 5.29 . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] 158.25 6.99 . . . . . . .@ area : num 0.000133 . . . . . . .@ hole :

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logi FALSE ... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] 158.25 158.24
158.26 158.25 6.98 ... . . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . .
... .@ labpt : num [1:2] 157.94 6.72 ... . . . . .@ area : num 9.85e-05 ... . . . . .@ hole :
logi FALSE ... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] 157.94 157.93
157.95 157.94 6.72 ... . . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . .
... .@ labpt : num [1:2] 149.32 6.71 ... . . . . .@ area : num 9.2e-05 ... . . . . .@ hole : logi
FALSE ... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] 149.3 149.3 149.3
149.3 6.7 ... . . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt :
num [1:2] 157.98 6.74 ... . . . . .@ area : num 9.08e-05 ... . . . . .@ hole : logi FALSE ...
... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] 157.97 157.96 157.99 157.97
6.74 ... . . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num
[1:2] 150.13 8.98 ... . . . . .@ area : num 8.69e-05 ... . . . . .@ hole : logi FALSE ...
... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] 150.13 150.12 150.13 150.13 8.98
... . . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num
[1:2] 146.19 7.51 ... . . . . .@ area : num 5.72e-05 ... . . . . .@ hole : logi FALSE ...
... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] 146.2 146.2 146.2 146.2 7.5 ...
... . . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2]
143.06 6.71 ... . . . . .@ area : num 5.45e-05 ... . . . . .@ hole : logi FALSE ...
... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] 143.06 143.05 143.06 143.06 6.71 ...
... . . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2]
149.19 7.38 ... . . . . .@ area : num 4.88e-05 ... . . . . .@ hole : logi FALSE ...
... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] 149.19 149.18 149.19 149.19 7.38 ...
... . . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2]
150.37 8.62 ... . . . . .@ area : num 4.79e-05 ... . . . . .@ hole : logi FALSE ...
... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] 150.38 150.37 150.37 150.38 8.62 ...
... . . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2]
149.2 7.37 ... . . . . .@ area : num 4.39e-05 ... . . . . .@ hole : logi FALSE ...
... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] 149.2 149.19 149.2 149.2 7.36 ...
... . . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2]
143.92 7.38 ... . . . . .@ area : num 4.01e-05 ... . . . . .@ hole : logi FALSE ...
... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] 143.92 143.91 143.91 143.92 7.38 ...
... . . . . .@ plotOrder: int [1:19] 1 2 3 4 5 6 7 8 9 10 ... . . . . .@ labpt : num [1:2] 158.25 6.88 ...
... . . . . .@ ID : chr "FSM" ... . . . . .@ area : num 0.0335 ... . . . . .$ :Formal class 'Polygons' [package "sp"]
with 5 slots ... . . . . .@ Polygons :List of 32 ... . . . . .$ :Formal class 'Polygon' [package "sp"] with
5 slots ... . . . . .@ labpt : num [1:2] -149.3 -17.7 ... . . . . .@ area : num 0.0259 ...
... . . . . .@ hole : logi FALSE ...
... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2]
-149.2 -149.2 -149.6 -149.2 -17.7 ... . . . . .$ :Formal class 'Polygon' [package "sp"] with 5
slots ... . . . . .@ labpt : num [1:2] -140.16 -8.89 ... . . . . .@ area : num 0.0139 ...
... . . . . .@ hole : logi FALSE ...
... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2]
-140 -140.2 -140.2 -140 -8.9 ... . . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... . . . . .@ labpt : num [1:2] -149.9 -17.5 ... . . . . .@ area : num 0.00742 ...
... . . . . .@ hole : logi FALSE ...
... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] -149.8
-149.9 -149.8 -149.8 -17.6 ... . . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... . . . . .@ labpt : num [1:2] -151.5 -16.8 ... . . . . .@ area : num 0.00591 ...
... . . . . .@ hole : logi FALSE ...
... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] -151.4
-151.5 -151.5 -151.4 -16.9 ... . . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... . . . . .@ labpt : num [1:2] -140.1 -9.39 ... . . . . .@ area : num 0.00413 ...
... . . . . .@ hole : logi FALSE ...
... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] -140.08

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-140.15 -140.09 -140.08 -9.45 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ..
... ... ... ...@ labpt : num [1:2] -138.7 -10.5 ... ... ... ...@ area : num 0.00391 ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -138.7
-138.7 -138.6 -138.7 -10.5 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] -139.57 -8.92 ... ... ... ...@ area : num 0.00388 ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -139.58
-139.5 -139.61 -139.58 -8.87 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] -151.5 -16.6 ... ... ... ...@ area : num 0.00346 ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -151.5
-151.5 -151.4 -151.5 -16.7 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] -138.98 -9.76 ... ... ... ...@ area : num 0.00292 ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -138.96
-138.81 -139.17 -138.96 -9.74 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] -140.68 -7.99 ... ... ... ...@ area : num 0.00284 ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -140.7
-140.71 -140.64 -140.7 -8.04 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] -139.09 -9.93 ... ... ... ...@ area : num 0.00273 ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -139.11
-139.13 -139.05 -139.11 -9.98 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] -138.8 -22.2 ... ... ... ...@ area : num 0.00201 ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -138.7
-138.8 -138.7 -138.7 -22.3 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] -140.6 -21.7 ... ... ... ...@ area : num 0.00156 ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -140.6
-140.7 -140.7 -140.6 -21.7 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] -144.3 -27.6 ... ... ... ...@ area : num 0.00154 ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -144.3
-144.3 -144.3 -144.3 -27.6 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ...@ labpt : num [1:2] -151 -16.8 ... ... ... ...@ area : num 0.00136 ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -151 -151 -151
-151 -16.8 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ...@ labpt : num [1:2] -151.4 -22.5 ... ... ... ...@ area : num 0.00131 ... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -151.4 -151.4 -151.4 -151.4
-22.5 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ...@ labpt : num [1:2] -146.4 -16.1 ... ... ... ...@ area : num 0.00128 ... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -146.3 -146.4 -146.3 -146.3
-16.2 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ...@ labpt : num [1:2] -149.5 -23.4 ... ... ... ...@ area : num 0.00121 ... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -149.5 -149.5 -149.5 -149.5
-23.4 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ...@ labpt : num [1:2] -135 -23.1 ... ... ... ...@ area : num 0.0012 ... ... ... ...@ hole : logi FALSE ...
... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -135 -135 -134.9 -135 -23.1 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2]
-151 -16.7 ... ... ... ...@ area : num 0.00118 ... ... ... ...@ hole : logi FALSE ... ... ...
... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -151 -151 -151 -151 -16.8 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -151.8
-16.5 ... ... ... ...@ area : num 0.000789 ... ... ... ... ...@ hole : logi FALSE ... ... ...
... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -151.7 -151.8 -151.7 -151.7 -16.5 ...

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... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -147.7
-23.9 ... ... ... ... ...@ area : num 0.00077 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -147.7 -147.7 -147.6 -147.7 -23.9 ... ... ...
... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -152.8
-22.6 ... ... ... ... ...@ area : num 0.000703 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -152.9 -152.8 -152.8 -152.9 -22.7 ... ... ...
... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -148.3
-15.8 ... ... ... ... ...@ area : num 0.000678 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -148.2 -148.3 -148.3 -148.2 -15.8 ... ... ...
... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -140.58
-7.91 ... ... ... ... ...@ area : num 0.000489 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -140.58 -140.61 -140.56 -140.58 -7.92 ... ...
... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2]
-144.6 -15.7 ... ... ... ... ...@ area : num 0.000439 ... ... ... ... ...@ hole : logi FALSE ... ... ... ...
... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -144.6 -144.6 -144.6 -144.6 -15.7 ...
... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2]
-150.7 -17.7 ... ... ... ... ...@ area : num 0.000238 ... ... ... ... ...@ hole : logi FALSE ... ... ...
... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -150.6 -150.7 -150.6 -150.6 -17.7 ...
... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2]
-150 -17 ... ... ... ... ...@ area : num 0.000205 ... ... ... ... ...@ hole : logi FALSE ... ... ...
... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -150 -150 -150 -150 -17 ... ...
...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -135 -23.2 ...
... ... ... ... ...@ area : num 0.000193 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -135.1 -135.1 -135 -135.1 -23.2 ... ...
...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -143.5 -27.9 ...
... ... ...@ area : num 0.00017 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -143.5 -143.5 -143.5 -143.5 -27.9 ...
... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -145 -19.9 ...
... ... ... ... ...@ area : num 0.000131 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -145 -145 -145 -145 -19.9 ...
... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -150 -17 ...
... ... ... ... ...@ area : num 5.73e-05 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -150 -150 -150 -150 -17 ...
... ...@ plotOrder: int [1:32] 1 2 3 4 5 6 7 8 9 10 ...
... ...@ labpt : num [1:2] -149.3 -17.7 ...
... ...@ ID : chr "PYF" ...
... ...@ area : num 0.0946 ...
...$ :Formal class 'Polygons' [package "sp"] with 5 slots ... ...
...@ Polygons :List of 10 ...
...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
...@ labpt : num [1:2] 2.46 46.65 ...
... ... ... ... ...@ area : num 63.7 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:69, 1:2] 2.54 4.17 4.15 4.83 4.87 ...
... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
...@ labpt : num [1:2] 9.1 42.1 ...
... ... ... ... ...@ area : num 0.865 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:8, 1:2] 9.45 9.55 9.18 8.79 8.58 ...
... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
...@ labpt : num [1:2] -1.28 45.95 ...
... ... ... ... ...@ area : num 0.0103 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -1.19 -1.4 -1.23 -1.19 45.82 ...
... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
...@ labpt : num [1:2] -3.18 47.33 ...
... ... ... ... ...@ area : num 0.00558 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -3.07 -3.22 -3.26 -3.07 47.31 ...
... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -1.43 46.22 ...
... ... ... ... ...@ area : num 0.00507 ...
... ... ... ... ...@ hole

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```

: logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -1.26 -1.55
-1.47 -1.26 46.16 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ...
..@ labpt : num [1:2] -2.21 46.98 ... ... ... ... ...@ area : num 0.0048 ... ... ... ... ...@ hole : logi
FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -2.2 -2.14 -2.28 -2.2
47.02 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num
[1:2] -2.34 46.71 ... ... ... ... ...@ area : num 0.00123 ... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -2.27 -2.36 -2.38 -2.27 46.69 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2]
-5.08 48.47 ... ... ... ... ...@ area : num 0.00113 ... ... ... ... ...@ hole : logi FALSE ... ... ... ...
...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -5.05 -5.13 -5.06 -5.05 48.45 ... ... ...
...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -3.57 48.81
... ... ... ... ...@ area : num 5.47e-05 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir:
int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -3.58 -3.58 -3.56 -3.58 48.8 ... ... ... ... ...$ :Formal
class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 9.48 42.62 ... ... ...
...@ area : num 3.9e-05 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ...
... ... ... ...@ coords : num [1:4, 1:2] 9.49 9.49 9.46 9.49 42.62 ... ... ... ...@ plotOrder: int [1:10] 1 2
3 4 5 6 7 8 9 10 ... ... ...@ labpt : num [1:2] 2.46 46.65 ... ... ...@ ID : chr "FRA" ... ...
...@ area : num 64.6 ...$ :Formal class 'Polygons' [package "sp"] with 5 slots ... ... ...@ Polygons :List of 1
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2]
-15.5 13.5 ... ... ... ...@ area : num 0.995 ... ... ... ... ...@ hole : logi FALSE ... ... ...
...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:16, 1:2] -16.7 -16.2 -16.2 -15.3 -16.1 ...
... ... ... ...@ plotOrder: int 1 ... ... ... ...@ labpt : num [1:2] -15.5 13.5 ... ... ...@ ID : chr "GMB" ...
... ... ...@ area : num 0.995 ...$ :Formal class 'Polygons' [package "sp"] with 5 slots ... ... ...@ Polygons :List of 3
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2]
11.811 -0.615 ... ... ... ... ...@ area : num 21.2 ... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:35, 1:2] 12.5 13.3 13.2 14.2 14.5 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 8.987 -0.675
... ... ... ... ...@ area : num 0.0051 ... ... ... ... ...@ hole : logi FALSE ... ... ...
...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 9.008 8.947 9.007 9.008 -0.768 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 9.546 0.277 ...
... ... ... ... ...@ area : num 0.000105 ... ... ... ... ...@ hole : logi TRUE ...
... ... ... ... ...@ ringDir: int -1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] 9.554 9.544 9.538 9.554 0.274 ...
... ... ... ... ...@ plotOrder: int [1:3] 1
2 3 ... ... ...@ labpt : num [1:2] 11.811 -0.615 ... ... ...@ ID : chr "GAB" ...
... ... ...@ area : num 21.2 ...
...$ :Formal class 'Polygons' [package "sp"] with 5 slots ... ... ... ...@ Polygons :List of 1 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 43.5 42.2 ...
... ... ... ... ...@ area : num 7.65 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:18, 1:2] 41.5 41.4 40 40.3 42.8 ...
... ... ... ... ...@ plotOrder: int 1 ...
... ... ... ... ...@ labpt : num [1:2] 43.5 42.2 ...
... ... ... ... ...@ ID : chr "GEO" ...
... ... ... ... ...@ area : num 7.65 ...
... ... ... ... ...$ :Formal class 'Polygons' [package "sp"] with 5 slots ... ... ...
... ... ... ... ...@ labpt : num [1:2] -1.18 7.93 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:29, 1:2] 0.64 0.662 0.256 -0.796 -1.613 ...
... ... ... ... ...@ plotOrder: int 1 ...
... ... ... ... ...@ labpt : num [1:2] -1.18 7.93 ...
... ... ... ... ...@ ID : chr "GHA" ...
... ... ... ... ...@ area : num 19.3 ...
... ... ... ... ...$ :Formal class 'Polygons' [package "sp"] with 5 slots ...
... ... ... ... ...@ Polygons :List of 3 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -61.7 12.1 ...
... ... ... ... ...@ area : num 0.0104 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -61.7 -61.6 -61.6 -61.7 12 ...
... ... ... ... ...$ :Formal class 'Polygon'
[package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -61.5 12.5 ...
... ... ... ... ...@ area : num

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0.00262 ... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords
: num [1:4, 1:2] -61.4 -61.5 -61.4 -61.4 12.5 ... . . . . . . . .$. :Formal class 'Polygon' [package "sp"]
with 5 slots ... . . . . . . . .@ labpt : num [1:2] -61.6 12.3 ... . . . . . . . .@ area : num 0.000127 ...
... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:4,
1:2] -61.6 -61.6 -61.6 -61.6 12.3 ... . . . . . . . .@ plotOrder: int [1:3] 1 2 3 ... . . . .@ labpt : num [1:2]
-61.7 12.1 ... . . . . . . . .@ ID : chr "GRD" ... . . . . . . . .@ area : num 0.0132 ... . . . .$. :Formal class 'Polygons'
[package "sp"] with 5 slots ... . . . . . . . .@ Polygons :List of 194 ... . . . . . . . .$. :Formal class 'Polygon'
[package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] -41.5 74.7 ... . . . . . . . .@ area :
num 638 ... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords
: num [1:576, 1:2] -32.3 -25.7 -35.6 -25.1 -24.8 ... . . . . . . . .$. :Formal class 'Polygon' [package
"sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] -53.5 69.8 ... . . . . . . . .@ area : num 1.54 ...
... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:12,
1:2] -52.7 -51.8 -53.6 -54.3 -53.3 ... . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots
... . . . . . . . .@ labpt : num [1:2] -26.6 70.7 ... . . . . . . . .@ area : num 0.84 ... . . . . . . . .@ hole
: logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:6, 1:2] -25.4 -25.3
-26 -28.1 -27.1 ... . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . . .@ labpt :
num [1:2] -45.9 82.4 ... . . . . . . . .@ area : num 0.836 ... . . . . . . . .@ hole : logi FALSE ..
... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:7, 1:2] -46 -44.4 -45.1 -44.7 -45.1 ...
... . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2]
-23.2 72.5 ... . . . . . . . .@ area : num 0.622 ... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir:
int 1 ... . . . . . . . .@ coords : num [1:7, 1:2] -23.6 -21.9 -22.8 -22.1 -22.6 ... . . . . . . . .$. :Formal class 'Polygon'
[package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] -24.5 73.3 ... . . . . . . . .@ area : num 0.384 ...
... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:8,
1:2] -24.4 -23.2 -25 -22.9 -25.7 ... . . . . . . . .$. :Formal class 'Polygon' [package "sp"]
with 5 slots ... . . . . . . . .@ labpt : num [1:2] -23 72.9 ... . . . . . . . .@ area : num 0.316 ...
... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:4,
1:2] -22.5 -21.9 -24.6 -22.5 73 ... . . . . . . . .$. :Formal class 'Polygon' [package
"sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] -18.4 75.2 ... . . . . . . . .@ area : num 0.283 ...
... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:6,
1:2] -17.8 -18.2 -17.3 -18.9 -18.8 ... . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots
... . . . . . . . .@ labpt : num [1:2] -21 74.3 ... . . . . . . . .@ area : num 0.194 ... . . . . . . . .@ hole
: logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:4, 1:2] -20.9 -20.1 -22
-20.9 74.4 ... . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . . .@ labpt
: num [1:2] -18.8 76.4 ... . . . . . . . .@ area : num 0.186 ... . . . . . . . .@ hole : logi FALSE ...
... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:6, 1:2] -18.7 -18.6 -19.1 -18.8 -19 ...
... . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] -20.3
74.9 ... . . . . . . . .@ area : num 0.173 ... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir:
int 1 ... . . . . . . . .@ coords : num [1:7, 1:2] -20.2 -19.7 -20.1 -20.7 -20.5 ... . . . . . . . .$. :Formal
class 'Polygon' [package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] -51 69.7 ... . . . . .
... . . . . . . . .@ area : num 0.123 ... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ...
... . . . . . . . .@ coords : num [1:5, 1:2] -50.9 -50.7 -51 -51.4 -50.9 ... . . . . . . . .$. :Formal class 'Polygon'
[package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] -53.7 71.2 ... . . . . . . . .@ area : num
0.0892 ... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords
: num [1:5, 1:2] -53.6 -54 -53.6 -53.4 -53.6 ... . . . . . . . .$. :Formal class 'Polygon' [package "sp"]
with 5 slots ... . . . . . . . .@ labpt : num [1:2] -19.6 80.2 ... . . . . . . . .@ area : num 0.0856 ...
... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:5,
1:2] -19.9 -20 -19.8 -19 -19.9 ... . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ..
... . . . . . . . .@ labpt : num [1:2] -19.9 77.9 ... . . . . . . . .@ area : num 0.0756 ... . . . . . . . .@ hole

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: logi FALSE .. . . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num [1:5, 1:2] -19.9 -19.2
-19.8 -20.5 -19.9 .. . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . .
.. @ labpt : num [1:2] -39.7 83.2 .. . . . . .@ area : num 0.0661 .. . . . . .@ hole : logi
FALSE .. . . . . .@ ringDir: int 1 .. . . . . .@ coords : num [1:4, 1:2] -39.6 -38.6 -40.7
-39.6 83.3 .. . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . .
.. @ labpt : num [1:2] -39.8 83.1 .. . . . . .@ area : num 0.0643 .. . . . . .@ hole : logi FALSE .. .
.. . . . .@ ringDir: int 1 .. . . . . .@ coords : num [1:4, 1:2] -39.6 -40.5 -39.3 -39.6 83 .. .
.. . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . .@ labpt : num [1:2] -20.3
82 .. . . . . .@ area : num 0.061 .. . . . . .@ hole : logi FALSE .. . . . . .@ ringDir:
int 1 .. . . . . .@ coords : num [1:4, 1:2] -19.8 -20.8 -20.3 -19.8 81.9 .. . . . . $. :Formal
class 'Polygon' [package "sp"] with 5 slots .. . . . . .@ labpt : num [1:2] -52 82.1 .. . . . .
.. . . . @ area : num 0.0594 .. . . . . .@ hole : logi FALSE .. . . . . .@ ringDir: int 1 .. .
.. . . .@ coords : num [1:4, 1:2] -51.5 -53.4 -51.2 -51.5 82 .. . . . . $. :Formal class 'Polygon'
[package "sp"] with 5 slots .. . . . . .@ labpt : num [1:2] -51.1 64.4 .. . . . . .@ area : num
0.0565 .. . . . . .@ hole : logi FALSE .. . . . . .@ ringDir: int 1 .. . . . . .@ coords
: num [1:5, 1:2] -51.2 -51.3 -51 -50.8 -51.2 .. . . . . $. :Formal class 'Polygon' [package "sp"]
with 5 slots .. . . . . .@ labpt : num [1:2] -37.6 65.7 .. . . . . .@ area : num 0.0562 ..
.. . . . .@ hole : logi FALSE .. . . . . .@ ringDir: int 1 .. . . . . .@ coords : num [1:4,
1:2] -37.4 -37.5 -38 -37.4 65.8 .. . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots ..
.. . . . .@ labpt : num [1:2] -72 77.4 .. . . . . .@ area : num 0.0552 .. . . . . .@ hole
: logi FALSE .. . . . . .@ ringDir: int 1 .. . . . . .@ coords : num [1:4, 1:2] -71.9 -72.6
-71.3 -71.9 77.3 .. . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . .
@ labpt : num [1:2] -40.5 64.7 .. . . . . .@ area : num 0.0548 .. . . . . .@ hole : logi FALSE
.. . . . .@ ringDir: int 1 .. . . . . .@ coords : num [1:4, 1:2] -40.2 -40.9 -40.5 -40.2 64.4
.. . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . .@ labpt : num [1:2]
-40.7 83.1 .. . . . . .@ area : num 0.0525 .. . . . . .@ hole : logi FALSE .. . . . . .
.. . . . @ ringDir: int 1 .. . . . . .@ coords : num [1:4, 1:2] -39.9 -41.5 -40.8 -39.9 83 .. .
.. . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . .@ labpt : num [1:2]
-55.4 72.2 .. . . . . .@ area : num 0.0412 .. . . . . .@ hole : logi FALSE .. . . . . .@ ringDir:
int 1 .. . . . . .@ coords : num [1:4, 1:2] -55.4 -55.7 -55 -55.4 72.2 .. . . . . $. :Formal
class 'Polygon' [package "sp"] with 5 slots .. . . . . .@ labpt : num [1:2] -52.6 68.7 .. . . . .
@ area : num 0.0387 .. . . . . .@ hole : logi FALSE .. . . . . .@ ringDir: int 1 .. . . . .
.. . . . @ coords : num [1:4, 1:2] -52.1 -53.1 -52.6 -52.1 68.7 .. . . . . $. :Formal
class 'Polygon' [package "sp"] with 5 slots .. . . . . .@ labpt : num [1:2] -17.8 79.1 .. . . . .
.. . . . @ area : num 0.0375 .. . . . . .@ hole : logi FALSE .. . . . . .@ ringDir: int 1 .. .
.. . . .@ coords : num [1:4, 1:2] -18 -17.8 -17.6 -18 79 .. . . . . $. :Formal class 'Polygon'
[package "sp"] with 5 slots .. . . . . .@ labpt : num [1:2] -41.5 63.3 .. . . . . .@ area : num
0.0371 .. . . . . .. . . . @ hole : logi FALSE .. . . . . .@ ringDir: int 1 .. . . . .
.. . . .@ coords : num [1:4, 1:2] -41.1 -41.4 -41.9 -41.1 63.2 .. . . . . $. :Formal
class 'Polygon' [package "sp"] with 5 slots .. . . . . .@ labpt : num [1:2] -48.4 82.5 .. . . . .
.. . . . @ area : num 0.0351 .. . . . . .@ hole : logi FALSE .. . . . . .@ ringDir: int 1 .. .
.. . . .@ coords : num [1:4, 1:2] -48.2 -48.9 -48 -48.2 82.4 .. . . . . $. :Formal
class 'Polygon' [package "sp"] with 5 slots .. . . . . .@ labpt : num [1:2] -27.6 70.8 .. . . . .
.. . . . @ area : num 0.034 .. . . . . .@ hole : logi FALSE .. . . . . .@ ringDir:
int 1 .. . . . . .@ coords : num [1:4, 1:2] -27.7 -27.7 -27.3 -27.7 70.7 .. . . .
.. . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . .@ labpt : num [1:2]
-51.9 68.2 .. . . . . .@ area : num 0.034 .. . . . . .@ hole : logi FALSE .. . . . . .@ ringDir:
int 1 .. . . . . .@ coords : num [1:4, 1:2] -52.1 -52.3 -51.5 -52.1 68.1 .. . . . .
.. . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . .@ labpt : num [1:2]
-43.9 59.9 .. . . . .

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... @ area : num 0.0337 ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ...
... ... ... @ coords : num [1:4, 1:2] -43.6 -44.1 -44 -43.6 59.8 ... ... ... ... ... $ :Formal class 'Polygon'
[package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] -39.2 83.3 ... ... ... ... ... @ area : num
0.0308 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords
: num [1:4, 1:2] -38.9 -39.6 -39.2 -38.9 83.3 ... ... ... ... ... $ :Formal class 'Polygon' [package "sp"]
with 5 slots ... ... ... ... ... @ labpt : num [1:2] -48 60.8 ... ... ... ... ... @ area : num 0.0304 ... ...
... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2]
-47.8 -47.9 -48.2 -47.8 60.8 ... ... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ... @ labpt : num [1:2] -51.9 70.9 ... ... ... ... ... @ area : num 0.0291 ... ... ... ... ... @ hole
: logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] -51.6 -52.2
-52 -51.6 70.9 ... ... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @
labpt : num [1:2] -44.4 60 ... ... ... ... ... @ area : num 0.0291 ... ... ... ... ... @ hole : logi FALSE ...
... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:5, 1:2] -44.4 -44.5 -44.4 -44.2 -44.4
... ... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num
[1:2] -56.4 73.8 ... ... ... ... ... @ area : num 0.0286 ... ... ... ... ... @ hole : logi FALSE ... ... ...
... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] -56 -56.3 -56.8 -56 73.8 ... ...
... ... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] -19.4 78.9
... ... ... ... ... @ area : num 0.0278 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir:
int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] -19.3 -19.8 -19.2 -19.3 78.8 ... ... ... ... ... $ :Formal
class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] -55.4 72.7 ... ...
... ... @ area : num 0.0255 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ...
... ... ... ... ... @ coords : num [1:4, 1:2] -55.3 -55.8 -55 -55.3 72.7 ... ... ... ... ... $ :Formal class 'Polygon'
[package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] -25 72.8 ... ... ... ... ... @ area : num
0.0255 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords
: num [1:4, 1:2] -24.9 -25.2 -24.8 -24.9 72.8 ... ... ... ... ... $ :Formal class 'Polygon' [package "sp"]
with 5 slots ... ... ... ... ... @ labpt : num [1:2] -53 68.4 ... ... ... ... ... @ area : num 0.0249 ... ...
... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:5, 1:2]
-53 -53.2 -53 -52.9 -53 ... ... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ... @ labpt : num [1:2] -18.9 74.6 ... ... ... ... ... @ area : num 0.0243 ... ...
... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num
[1:4, 1:2] -18.8 -19.2 -18.8 -18.8 74.5 ... ... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ... @ labpt : num [1:2] -55.7 73.5 ... ... ... ... ... @ area : num 0.0238 ... ...
... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ...
... ... ... ... ... @ coords : num [1:4, 1:2] -55.6 -56.1 -55.5 -55.6 73.4 ... ...
... ... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2]
-20.9 76.5 ... ... ... ... ... @ area : num 0.0236 ... ... ... ... ... @ hole : logi FALSE ... ...
... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] -20.8 -21.1 -20.7 -20.8 76.4 ...
... ... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] -18.7 81.7
... ... ... ... ... @ area : num 0.0236 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int
1 ... ... ... ... ... @ coords : num [1:4, 1:2] -18.6 -19.2 -18.3 -18.6 81.6 ... ... ... ... ... $ :Formal class
'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] -36.6 65.9 ... ...
... ... ... ... ... @ area : num 0.0231 ... ... ... ... ... @ hole : logi FALSE ... ...
... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:5, 1:2] -36.6 -36.7 -36.7 -36.5 -36.6 ...
... ... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] -70.7 77.4 ...
... ... ... ... ... @ area : num 0.0216 ... ...
... ... ... ... ... @ hole : logi FALSE ... ...
... ... ... ... ... @ ringDir: int 1 ... ...
... ... ... ... ... @ coords : num [1:4, 1:2] -70.7 -70.1 -71.3 -70.7 77.5 ... ...
... ... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ... ... ... @ labpt : num [1:2] -52.7 71.3 ... ...
... ... ... ... ... @ area : num 0.0209 ...
... ... ... ... ... @ hole : logi FALSE ...
... ... ... ... ... @ ringDir: int 1 ...
... ... ... ... ... @ coords : num [1:4, 1:2]
-52.6 -52.3 -53.2 -52.6 71.3 ... ...
... ... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ...

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... . . . . .@ labpt : num [1:2] -18 77.7 ... . . . . .@ area : num 0.0207 ... . . . . .@ hole :
logi FALSE ... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] -18 -18.2 -17.6
-18 77.7 ... . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt :
num [1:2] -20.4 76.3 ... . . . . .@ area : num 0.02 ... . . . . .@ hole : logi FALSE ... . . . .
... .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] -20.3 -20.7 -20.2 -20.3 76.3 ... . . . .
... $. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] -45.3 60.3
... . . . . .@ area : num 0.0199 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir:
int 1 ... . . . . .@ coords : num [1:4, 1:2] -45.4 -45.4 -45.2 -45.4 60.2 ... . . . . .$. :Formal
class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] -55.4 73 ... . . . .
... .@ area : num 0.0184 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... . . .
... . . .@ coords : num [1:4, 1:2] -55.1 -55.7 -55.5 -55.1 73 ... . . . . .$. :Formal class 'Polygon'
[package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] -44.2 60 ... . . . . .@ area : num
0.0177 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... . . . . .@ coords
: num [1:4, 1:2] -44.3 -44.2 -44 -44.3 59.9 ... . . . . .$. :Formal class 'Polygon' [package "sp"]
with 5 slots ... . . . . .@ labpt : num [1:2] -21.2 76.6 ... . . . . .@ area : num 0.0167 ...
... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4,
1:2] -21.1 -21.5 -21 -21.1 76.6 ... . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ..
... . . . . .@ labpt : num [1:2] -55.9 72.7 ... . . . . .@ area : num 0.0161 ... . . . . .@ hole :
logi FALSE ... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] -55.7
-56.2 -55.6 -55.7 72.7 ... . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . .
... .@ labpt : num [1:2] -40.8 64.2 ... . . . . .@ area : num 0.0155 ... . . . . .@ hole : logi FALSE ...
... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] -40.7 -40.7 -41.1
-40.7 64.3 ... . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt
: num [1:2] -56.7 73.6 ... . . . . .@ area : num 0.0155 ... . . . . .@ hole : logi FALSE ...
... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] -56.3 -56.8 -57 -56.3 73.7 ...
... . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] -56.9
74.5 ... . . . . .@ area : num 0.015 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir:
int 1 ... . . . . .@ coords : num [1:4, 1:2] -56.5 -56.5 -57.6 -56.5 74.5 ... . . . . .$. :Formal
class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] -53 65.6 ... . . . .
... . . .@ area : num 0.0149 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... . .
... . . .@ coords : num [1:4, 1:2] -53 -53.2 -52.8 -53 65.5 ... . . . . .$. :Formal class 'Polygon'
[package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] -23.4 69.7 ... . . . . .@ area : num
0.0148 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... . . . . .@ coords
: num [1:4, 1:2] -23.3 -23.6 -23.3 -23.3 69.6 ... . . . . .$. :Formal class 'Polygon' [package "sp"]
with 5 slots ... . . . . .@ labpt : num [1:2] -54.9 70.4 ... . . . . .@ area : num 0.0146 ...
... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4,
1:2] -54.7 -54.9 -55 -54.7 70.4 ... . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ..
... . . . . .@ labpt : num [1:2] -56 73.2 ... . . . . .@ area : num 0.0145 ... . . . . .@ hole :
logi FALSE ... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] -56.1 -56 -55.8
-56.1 73.1 ... . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt
: num [1:2] -51.3 64.5 ... . . . . .@ area : num 0.014 ... . . . . .@ hole : logi FALSE ...
... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] -51.3 -51.4 -51.1 -51.3 64.4 ...
... . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2]
-55.6 71.9 ... . . . . .@ area : num 0.0132 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir:
int 1 ... . . . . .@ coords : num [1:4, 1:2] -55.6 -55.8 -55.4 -55.6 71.8 ... . . . . .$. :Formal
class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] -47.8 82.8 ..
... . . . . .@ area : num 0.0132 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int
1 ... . . . . .@ coords : num [1:4, 1:2] -47.6 -48.4 -47.4 -47.6 82.8 ... . . . . .$. :Formal class

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'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -37.1 65.7 ... ... ... ... ...@ area : num 0.0128 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -37 -37.2 -37 -37 65.6 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -19 82.1 ... ... ... ... ...@ area : num 0.0125 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -18.9 -19.4 -18.8 -18.9 82 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -69.7 76.6 ... ... ... ... ...@ area : num 0.0123 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -69.7 -70 -69.5 -69.7 76.5 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -19 78.1 ... ... ... ... ...@ area : num 0.0117 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -19 -19.2 -18.8 -19 78.1 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -18.5 78.6 ... ... ... ... ...@ area : num 0.0116 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -18.6 -18.7 -18.3 -18.6 78.6 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -21.3 77.9 ... ... ... ... ...@ area : num 0.0112 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -21.3 -21.4 -21.1 -21.3 77.9 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -19.1 78.3 ... ... ... ... ...@ area : num 0.0112 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -19.2 -19.4 -18.9 -19.2 78.2 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -19.3 78.4 ... ... ... ... ...@ area : num 0.0111 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -19.3 -19.4 -19.1 -19.3 78.3 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -46.6 60.8 ... ... ... ... ...@ area : num 0.0109 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -46.8 -46.8 -46.2 -46.8 60.8 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -20.6 81.7 ... ... ... ... ...@ area : num 0.0108 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -20.6 -21 -20.2 -20.6 81.7 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -42.1 62.8 ... ... ... ... ...@ area : num 0.0107 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -42 -41.9 -42.4 -42 62.8 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -29.8 68.2 ... ... ... ... ...@ area : num 0.0107 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -29.8 -30 -29.7 -29.8 68.1 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -18.2 78.8 ... ... ... ... ...@ area : num 0.0106 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -18.2 -18.3 -18.1 -18.2 78.8 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -55.2 72.6 ... ... ... ... ...@ area : num 0.0105 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -55.1 -55.4 -55 -55.1 72.5 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -18.4 74.7 ... ... ... ... ...@ area : num 0.01 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -18.5 -18.3 -18.4 -18.5 74.7 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -20.5 78.2 ... ... ... ... ...@ area : num 0.01 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -20.5 -20.8 -20.3 -20.5 78.2 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -46.4 60.7 ... ... ... ... ...@ area : num 0.00908 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -46.3 -46.5 -46.3 60.7
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.... . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . . . .@ labpt : num [1:2]
-19.6 78.3 . . . . . . . . .@ area : num 0.00902 . . . . . . . . .@ hole : logi FALSE . . . . . . . . .@ ringDir: int 1 . . . . . . . . .@ coords : num [1:4, 1:2] -19.6 -19.7 -19.5 -19.6 78.3 . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . . . .@ labpt : num [1:2] -53 65.5 . . . . . . . . .@ area : num 0.00894 . . . . . . . . .@ hole : logi FALSE . . . . . . . . .@ ringDir: int 1 . . . . . . . . .@ coords : num [1:4, 1:2] -52.9 -53.1 -52.9 -52.9 65.4 . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . . . .@ labpt : num [1:2] -36.8 65.8 . . . . . . . . .@ area : num 0.00892 . . . . . . . . .@ hole : logi FALSE . . . . . . . . .@ ringDir: int 1 . . . . . . . . .@ coords : num [1:4, 1:2] -36.8 -36.9 -36.8 -36.8 65.8 . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . . . .@ labpt : num [1:2] -39.6 65.3 . . . . . . . . .@ area : num 0.00888 . . . . . . . . .@ hole : logi FALSE . . . . . . . . .@ ringDir: int 1 . . . . . . . . .@ coords : num [1:4, 1:2] -39.5 -39.6 -39.8 -39.5 65.3 . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . . . .@ labpt : num [1:2] -20.2 77.6 . . . . . . . . .@ area : num 0.00882 . . . . . . . . .@ hole : logi TRUE . . . . . . . . .@ ringDir: int -1 . . . . . . . . .@ coords : num [1:4, 1:2] -20.1 -20.4 -20 -20.1 77.7 . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . . . .@ labpt : num [1:2] -51.4 64.3 . . . . . . . . .@ area : num 0.0086 . . . . . . . . .@ hole : logi FALSE . . . . . . . . .@ ringDir: int 1 . . . . . . . . .@ coords : num [1:4, 1:2] -51.6 -51.4 -51.3 -51.6 64.3 . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . . . .@ labpt : num [1:2] -41.5 63 . . . . . . . . .@ area : num 0.00858 . . . . . . . . .@ hole : logi FALSE . . . . . . . . .@ ringDir: int 1 . . . . . . . . .@ coords : num [1:4, 1:2] -41.6 -41.6 -41.5 -41.6 62.9 . . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . . . .@ labpt : num [1:2] -19.4 79.2 . . . . . . . . .@ area : num 0.00849 . . . . . . . . .@ hole : logi FALSE . . . . . . . . .@ ringDir: int 1 . . . . . . . . .@ coords : num [1:4, 1:2] -19.4 -19.5 -19.3 -19.4 79.1 . . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . . . .@ labpt : num [1:2] -38.3 83.2 . . . . . . . . .@ area : num 0.00803 . . . . . . . . .@ hole : logi FALSE . . . . . . . . .@ ringDir: int 1 . . . . . . . . .@ coords : num [1:4, 1:2] -38.3 -38.7 -38 -38.3 83.1 . . . . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . . . .@ labpt : num [1:2] -56.4 73.6 . . . . . . . . .@ area : num 0.00794 . . . . . . . . .@ hole : logi FALSE . . . . . . . . .@ ringDir: int 1 . . . . . . . . .@ coords : num [1:4, 1:2] -56.4 -56.6 -56.2 -56.4 73.5 . . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . . . .@ labpt : num [1:2] -45.9 60.7 . . . . . . . . .@ area : num 0.00783 . . . . . . . . .@ hole : logi FALSE . . . . . . . . .@ ringDir: int 1 . . . . . . . . .@ coords : num [1:6, 1:2] -46 -46 -46 -46 -45.8 . . . . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . . . .@ labpt : num [1:2] -56 73.3 . . . . . . . . .@ area : num 0.0077 . . . . . . . . .@ hole : logi FALSE . . . . . . . . .@ ringDir: int 1 . . . . . . . . .@ coords : num [1:4, 1:2] -56 -56.2 -55.8 -56 73.3 . . . . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . . . .@ labpt : num [1:2] -46.1 60.7 . . . . . . . . .@ area : num 0.00767 . . . . . . . . .@ hole : logi FALSE . . . . . . . . .@ ringDir: int 1 . . . . . . . . .@ coords : num [1:6, 1:2] -45.9 -46 -46.1 -46.2 -46 . . . . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . . . .@ labpt : num [1:2] -55.7 73.3 . . . . . . . . .@ area : num 0.00754 . . . . . . . . .@ hole : logi FALSE . . . . . . . . .@ ringDir: int 1 . . . . . . . . .@ coords : num [1:4, 1:2] -55.7 -55.9 -55.7 -55.7 73.3 . . . . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . . . .@ labpt : num [1:2] -42.2 61.8 . . . . . . . . .@ area : num 0.00716 . . . . . . . . .@ hole : logi FALSE . . . . . . . . .@ ringDir: int 1 . . . . . . . . .@ coords : num [1:4, 1:2] -42.3 -42.1 -42.1 -42.3 61.8 . . . . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . . . .@ labpt : num [1:2] -55.5 72.9 . . . . . . . . .@ area : num 0.00698 . . . . . . . . .@ hole : logi FALSE . . . . . . . . .@ ringDir: int 1 . . . . . . . . .@ coords : num [1:4, 1:2] -55.6 -55.4 -55.5 -55.6 72.9 . . . . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots . . . . . . . . .@ labpt : num [1:2] -51.7 70.7 . . . . . . . . .@ area : num 0.00675 . . . . . . . . .@ hole : logi FALSE . . . . . . . . .@ ringDir: int 1 . . . . . . . .

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... ..@ coords : num [1:4, 1:2] -51.5 -51.9 -51.7 -51.5 70.7 ... ... ... ... [list output truncated] ...
... ..@ plotOrder: int [1:194] 1 2 3 4 5 6 7 8 9 10 ... ... ... ..@ labpt : num [1:2] -41.5 74.7 ... ...
..@ ID : chr "GRL" ... ... ..@ area : num 645 ... $. :Formal class 'Polygons' [package "sp"] with 5
slots ... ... ... ..@ Polygons :List of 23 ... ... ... ...$. :Formal class 'Polygon' [package "sp"] with 5 slots
... ... ... ... ..@ labpt : num [1:2] 10.4 51.1 ... ... ... ... ..@ area : num 45 ... ... ... ... ..@ hole :
logi FALSE ... ... ... ... ..@ ringDir: int 1 ... ... ... ... ..@ coords : num [1:63, 1:2] 11 10.8 12.5
12.9 12.4 ... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ..@ labpt :
num [1:2] 13.4 54.4 ... ... ... ... ..@ area : num 0.102 ... ... ... ... ..@ hole : logi FALSE ... ...
... ..@ ringDir: int 1 ... ... ... ... ..@ coords : num [1:8, 1:2] 13.4 13.7 13.1 13.3 13.1 ... ... ... ... $.
:Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ..@ labpt : num [1:2] 14 53.9 ...
... .. ... ..@ area : num 0.0418 ... ... ... ... ..@ hole : logi FALSE ... ... ... ... ..@ ringDir: int 1 ...
... .. ... ..@ coords : num [1:7, 1:2] 14 14.2 14.2 13.8 14.1 ... ... ... ... $. :Formal class 'Polygon'
[package "sp"] with 5 slots ... ... ... ... ..@ labpt : num [1:2] 11.2 54.5 ... ... ... ... ..@ area : num
0.0138 ... ... ... ... ..@ hole : logi FALSE ... ... ... ... ..@ ringDir: int 1 ... ... ... ... ..@ coords
: num [1:4, 1:2] 11.3 11 11.2 11.3 54.4 ... ... ... ... $. :Formal class 'Polygon' [package "sp"] with
5 slots ... ... ... ... ..@ labpt : num [1:2] 8.51 54.72 ... ... ... ... ..@ area : num 0.00562 ...
... ... ..@ hole : logi FALSE ... ... ... ... ..@ ringDir: int 1 ... ... ... ... ..@ coords : num [1:4, 1:2]
8.57 8.4 8.55 8.57 54.69 ... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ..@ labpt : num [1:2] 8.89 54.49 ... ... ... ... ..@ area : num 0.00355 ...
... ... ... ... ..@ hole : logi FALSE ... ... ... ... ..@ ringDir: int 1 ... ... ... ... ..@ coords : num [1:4, 1:2]
8.89 8.82 8.96 8.89 54.46 ... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ..@ labpt : num [1:2] 8.34 54.66 ... ... ... ... ..@ area : num 0.00316 ...
... ... ... ... ..@ hole : logi FALSE ... ... ... ... ..@ ringDir: int 1 ... ... ... ... ..@ coords : num [1:4, 1:2]
8.36 8.29 8.35 8.36 54.61 ... ... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ..@ labpt : num [1:2] 11.4 54 ...
... ... ... ... ..@ area : num 0.00305 ...
... ... ... ... ..@ hole : logi TRUE ...
... ... ... ... ..@ ringDir: int -1 ...
... ... ... ... ..@ coords : num [1:4, 1:2] 11.5 11.5 11.4 11.5 54 ...
... ... ... ... ... $. :Formal class
'Polygon' [package "sp"] with 5 slots ... ... ... ... ..@ labpt : num [1:2] 8.65 54.52 ...
... ... ... ... ..@ area : num 0.00287 ...
... ... ... ... ..@ hole : logi FALSE ...
... ... ... ... ..@ ringDir: int 1 ...
... ... ... ... ..@ coords : num [1:4, 1:2] 8.66 8.59 8.71 8.66 54.49 ...
... ... ... ... ... $. :Formal class 'Polygon'
[package "sp"] with 5 slots ... ... ... ... ..@ labpt : num [1:2] 13.1 54.6 ...
... ... ... ... ..@ area : num 0.00265 ...
... ... ... ... ..@ hole : logi FALSE ...
... ... ... ... ..@ ringDir: int 1 ...
... ... ... ... ..@ coords : num [1:4, 1:2] 13.1 13.1 13.2 13.1 54.5 ...
... ... ... ... ... $. :Formal class 'Polygon' [package "sp"] with
5 slots ... ... ... ... ..@ labpt : num [1:2] 6.74 53.58 ...
... ... ... ... ..@ area : num 0.00263 ...
... ... ... ... ..@ hole : logi FALSE ...
... ... ... ... ..@ ringDir: int 1 ...
... ... ... ... ..@ coords : num [1:4, 1:2]
6.81 6.75 6.66 6.81 53.6 ...
... ... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ..@ labpt : num [1:2] 7.53 53.75 ...
... ... ... ... ..@ area : num 0.00169 ...
... ... ... ... ..@ hole : logi FALSE ...
... ... ... ... ..@ ringDir: int 1 ...
... ... ... ... ..@ coords : num [1:4, 1:2] 7.62 7.47 7.49 7.62 53.75 ...
... ... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ..@ labpt : num [1:2] 7.24 53.71 ...
... ... ... ... ..@ area : num 0.000976 ...
... ... ... ... ..@ hole : logi FALSE ...
... ... ... ... ..@ ringDir: int 1 ...
... ... ... ... ..@ coords : num [1:4, 1:2] 7.24 7.14 7.35 7.24 53.7 ...
... ... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ..@ labpt : num [1:2] 7.75 53.77 ...
... ... ... ... ..@ area : num 0.000738 ...
... ... ... ... ..@ hole : logi FALSE ...
... ... ... ... ..@ ringDir: int 1 ...
... ... ... ... ..@ coords : num [1:4, 1:2] 7.76 7.66 7.81 7.76 53.76 ...
... ... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ..@ labpt : num [1:2] 8.43 53.95 ...
... ... ... ... ..@ area : num 0.000647 ...
... ... ... ... ..@ hole : logi FALSE ...
... ... ... ... ..@ ringDir: int 1 ...
... ... ... ... ..@ coords : num [1:4, 1:2] 8.43 8.41 8.45 8.43 53.93 ...
... ... ... ... ... $. :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ..@ labpt : num [1:2] 8.15 53.72 ...
... ... ... ... ..@ area : num 0.000598 ...
... ... ... ... ..@ hole : logi FALSE ...
... ... ... ... ..@ ringDir:

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int 1 .. . . . . . . . .@ coords : num [1:4, 1:2] 8.19 8.12 8.14 8.19 53.72 ... . . . . . . . .$. :Formal class
'Polygon' [package "sp"] with 5 slots .. . . . . . . . .@ labpt : num [1:2] 6.97 53.67 . . . . . . . . .
.. @ area : num 0.000526 .. . . . . . . . .@ hole : logi FALSE .. . . . . . . . .@ ringDir: int 1 .. . . .
. . . . . . . .@ coords : num [1:4, 1:2] 6.94 6.88 7.09 6.94 53.67 ... . . . . . . . .$. :Formal class 'Polygon'
[package "sp"] with 5 slots .. . . . . . . . .@ labpt : num [1:2] 8.69 54.07 .. . . . . . . . .@ area : num 0.000459
. . . . . . . .@ hole : logi FALSE .. . . . . . . . .@ ringDir: int 1 .. . . . . . . . . .
.. @ coords : num [1:4, 1:2] 8.7 8.67 8.69 8.7 54.04 ... . . . . . . . $. :Formal class 'Polygon' [package
"sp"] with 5 slots .. . . . . . . . .@ labpt : num [1:2] 8.69 47.7 .. . . . . . . . .@ area : num 0.000295
. . . . . . . .@ hole : logi FALSE .. . . . . . . . .@ ringDir: int 1 .. . . . . . . . . .
.. @ coords : num [1:4, 1:2] 8.71 8.68 8.67 8.71 47.7 ... . . . . . . . $. :Formal class 'Polygon' [package "sp"] with 5
slots .. . . . . . . . .@ labpt : num [1:2] 11.6 54.1 .. . . . . . . . .@ area : num 0.000278 .. . . . . .
.. @ hole : logi TRUE .. . . . . . . . .@ ringDir: int -1 .. . . . . . . . . .
.. @ coords : num [1:4, 1:2] 11.5 11.6 11.5 54.1 ... . . . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . .
.. @ labpt : num [1:2] 12.7 54.4 .. . . . . . . . .@ area : num 0.000232 .. . . . . . . . .@ hole : logi
TRUE .. . . . . . . . .@ ringDir: int -1 .. . . . . . . . .@ coords : num [1:4, 1:2] 12.7 12.7 12.7 12.7 12.7
54.4 ... . . . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . . . .@ labpt : num
[1:2] 11 54.4 .. . . . . . . . .@ area : num 6.6e-05 .. . . . . . . . .@ hole : logi FALSE .. . . . . .
.. @ ringDir: int 1 .. . . . . . . . .@ coords : num [1:4, 1:2] 11 11 11 11 54.4 .. . . . . . . . $. :Formal
class 'Polygon' [package "sp"] with 5 slots .. . . . . . . . .@ labpt : num [1:2] 13.9 54 .. . . . . .
.. @ area : num 3.95e-05 .. . . . . . . . .@ hole : logi FALSE .. . . . . . . . .@ ringDir: int 1 .. . .
. . . . . . . .@ coords : num [1:4, 1:2] 13.9 13.9 13.9 13.9 54 .. . . . . . . .@ plotOrder: int [1:23] 1 2 3
4 5 6 7 8 9 10 .. . . . . . . .@ labpt : num [1:2] 10.4 51.1 .. . . . . . . .@ ID : chr "DEU" .. . . . .@ area :
num 45.2 ... $. :Formal class 'Polygons' [package "sp"] with 5 slots .. . . . . . . .@ Polygons :List of 1
. . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . . . .@ labpt : num [1:2]
144.7 13.4 .. . . . . . . . .@ area : num 0.0273 .. . . . . . . . .@ hole : logi FALSE .. . . . . . . . .@ ringDir:
int 1 .. . . . . . . . .@ coords : num [1:4, 1:2] 144.7 144.7 144.9 144.7 13.2 .. . . . . . . .@ plotOrder:
int 1 .. . . . . . . .@ labpt : num [1:2] 144.7 13.4 .. . . . . . . .@ ID : chr "GUM" .. . . . .@ area :
num 0.0273 .. $. :Formal class 'Polygons' [package "sp"] with 5 slots .. . . . . . . .@ Polygons :List
of 68 .. . . . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num
[1:2] 22.6 39.5 .. . . . . . . .@ area : num 11.2 .. . . . . . . .@ hole : logi FALSE .. . . . . .
.. @ ringDir: int 1 .. . . . . . . .@ coords : num [1:49, 1:2] 26.3 26.4 26.6 26 25.1 ... . . . . . . $. :Formal
class 'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2] 24.7 35.2 .. .
. . . . . . . .@ area : num 0.777 .. . . . . . . . .@ hole : logi FALSE .. . . . . . . . .@ ringDir: int 1 .. .
. . . . . . . .@ coords : num [1:6, 1:2] 23.9 26.3 24.8 23.5 23.6 .. . . . . . . . $. :Formal class 'Polygon'
[package "sp"] with 5 slots .. . . . . . . . .@ labpt : num [1:2] 23.8 38.5 .. . . . . . . . .@ area : num
0.473 .. . . . . . . . .@ hole : logi FALSE .. . . . . . . . .@ ringDir: int 1 .. . . . . . . . .@ coords :
num [1:5, 1:2] 23.5 24.2 24.6 22.8 23.5 .. . . . . . . . $. :Formal class 'Polygon' [package "sp"] with
5 slots .. . . . . . . . .@ labpt : num [1:2] 26.3 39.2 .. . . . . . . . .@ area : num 0.0818 .. . . . .
.. @ hole : logi FALSE .. . . . . . . . .@ ringDir: int 1 .. . . . . . . . .@ coords : num [1:4, 1:2] 26.4
26.6 25.8 26.4 39.3 .. . . . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . .
. . . . . . . .@ labpt : num [1:2] 27.9 36.2 .. . . . . . . . .@ area : num 0.0793 .. . . . . . . .@ hole : logi
FALSE .. . . . . . . . .@ ringDir: int 1 .. . . . . . . . .@ coords : num [1:4, 1:2] 27.8 27.7 28.2 27.8
35.9 .. . . . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . . . .@ labpt : num
[1:2] 20.6 38.2 .. . . . . . . . .@ area : num 0.0648 .. . . . . . . . .@ hole : logi FALSE .. . . . .
.. @ ringDir: int 1 .. . . . . . . . .@ coords : num [1:4, 1:2] 20.6 20.8 20.3 20.6 38.4 .. . . . . . . $. :Formal
class 'Polygon' [package "sp"] with 5 slots .. . . . . . . . .@ labpt : num [1:2] 26 38.4 .. .
. . . . . . . .@ area : num 0.0573 .. . . . . . . . .@ hole : logi FALSE .. . . . . . . . .@ ringDir: int 1 ..
. . . . . . . .@ coords : num [1:4, 1:2] 26 25.9 26.2 26 38.2 .. . . . . . . . $. :Formal class 'Polygon'

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[package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 25.3 39.9 ... ... ... ... ...@ area : num
0.0361 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords
: num [1:4, 1:2] 25.4 25.4 25.1 25.4 40 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with
5 slots ... ... ... ... ...@ labpt : num [1:2] 19.8 39.7 ... ... ... ... ...@ area : num 0.0354 ... ... ...
... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:5, 1:2]
19.9 19.8 20.1 19.6 19.9 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ...@ labpt : num [1:2] 20.8 37.8 ... ... ... ... ...@ area : num 0.0238 ... ... ... ... ...@ hole :
logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 20.9 20.8 20.6
20.9 37.8 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt
: num [1:2] 25.4 37.1 ... ... ... ... ...@ area : num 0.0232 ... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 25.5 25.3 25.5 25.5 36.9 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 27.2
35.6 ... ... ... ... ...@ area : num 0.023 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir:
int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 27.2 27.1 27.2 27.2 35.4 ... ... ... ... ...$ :Formal class
'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 24.8 37.9 ... ... ... ... ...@ area :
num 0.0228 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...
...@ coords : num [1:4, 1:2] 24.8 25 24.7 24.8 38 ... ... ... ... ...$ :Formal class 'Polygon' [package
"sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 26.8 37.8 ... ... ... ... ...@ area : num 0.0218 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4,
1:2] 27.1 26.6 26.7 27.1 37.7 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 27.1 36.8 ... ... ... ... ...@ area : num 0.021 ... ... ... ... ...@ hole :
logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 27 27.1 27.4 27
36.7 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num
[1:2] 24.6 40.7 ... ... ... ... ...@ area : num 0.0202 ... ... ... ... ...@ hole : logi FALSE ... ... ...
...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 24.8 24.5 24.6 24.8 40.6 ... ... ... ... ...
$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 26.1 37.6 ...
... ... ... ... ...@ area : num 0.0159 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1
... ... ... ... ...@ coords : num [1:4, 1:2] 26 26.1 26.4 26 37.5 ... ... ... ... ...$ :Formal class 'Polygon'
[package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 24.6 38.8 ... ... ... ... ...@ area : num
0.014 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords :
num [1:4, 1:2] 24.7 24.6 24.5 24.7 38.8 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with
5 slots ... ... ... ... ...@ labpt : num [1:2] 20.6 38.7 ... ... ... ... ...@ area : num 0.0139 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2]
20.6 20.6 20.7 20.6 38.6 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 23 36.3 ... ... ... ... ...@ area : num 0.0134 ... ... ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2]
23 22.9 23.1 23 36.1 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 25.1 37.6 ... ... ... ... ...@ area : num 0.0118 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] 25.2 25 25.2 25.2 37.5 ... ... ... ... ...$ :Formal
class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 25.2 37.1 ...
... ... ... ... ...@ area : num 0.0101 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] 25.3 25.1 25.3 25.3 37 ...
... ... ... ... ...$ :Formal class 'Polygon'
[package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 25.6 40.4 ...
... ... ... ... ...@ area : num 0.00899 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] 25.6 25.4 25.7 25.6 40.4 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with
5 slots ... ... ... ... ...@ labpt : num [1:2] 24.4 36.7 ...
... ... ... ... ...@ area : num 0.00897 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] 24.4 24.3 24.5 24.4 36.7 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ...
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... ... ... @ labpt : num [1:2] 26.4 36.6 ... ... ... ... @ area : num 0.0087 ... ... ... ... ... @ hole :
logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] 26.3 26.3 26.5
26.3 36.5 ... ... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt :
num [1:2] 27 37 ... ... ... ... ... @ area : num 0.00846 ... ... ... ... ... @ hole : logi FALSE ... ...
... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] 27 26.9 27 27 36.9 ... ... ... ... ...
$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 23.7 39.1 ...
... ... ... ... ... @ area : num 0.00685 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir:
int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] 23.7 23.6 23.8 23.7 39.1 ... ... ... ... ... $ :Formal class
'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 24.4 37.4 ... ... ... ...
... @ area : num 0.00621 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ...
... ... ... ... ... @ coords : num [1:4, 1:2] 24.4 24.4 24.5 24.4 37.3 ... ... ... ... ... $ :Formal class 'Polygon'
[package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 24.3 37.6 ... ... ... ... ... @ area : num
0.00617 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords :
num [1:4, 1:2] 24.3 24.3 24.4 24.3 37.5 ... ... ... ... ... $ :Formal class 'Polygon' [package "sp"] with
5 slots ... ... ... ... ... @ labpt : num [1:2] 24.7 37 ... ... ... ... ... @ area : num 0.00567 ... ...
... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] 24.7
24.6 24.8 24.7 36.9 ... ... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ... ... ... @ labpt : num [1:2] 27.8 36.6 ... ... ... ... ... @ area : num 0.00564 ... ...
... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] 27.9 27.8 27.9 27.9
36.5 ... ... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num
[1:2] 25.4 37.5 ... ... ... ... ... @ area : num 0.00559 ... ... ... ... ... @ hole : logi FALSE ... ...
... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] 25.4 25.3 25.5 25.4 37.4 ...
... ... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 23.5 38
... ... ... ... ... @ area : num 0.00544 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir:
int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] 23.5 23.4 23.5 23.5 37.9 ... ... ... ... ... $ :Formal class
'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 25.4 36.4 ...
... ... ... ... ... @ area : num 0.00518 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ...
... ... ... ... ... @ coords : num [1:4, 1:2] 25.5 25.4 25.5 25.5 36.3 ... ... ... ... ... $ :Formal class 'Polygon'
[package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 25.4 36.7 ... ... ... ... ... @ area :
num 0.00503 ... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ...
@ coords : num [1:4, 1:2] 25.4 25.3 25.4 25.4 36.7 ... ... ... ... ... $ :Formal class 'Polygon' [package
"sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2] 24.9 37.4 ... ... ... ... ... @ area : num 0.00501
... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num
[1:4, 1:2] 25 24.9 24.9 25 37.4 ... ... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ... @ labpt : num [1:2] 23.5 37.7 ... ... ... ... ... @ area : num 0.00491 ... ...
... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] 23.5 23.4
23.6 23.5 37.7 ... ... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ... ... ... @ labpt : num [1:2] 20.7 38.4 ... ... ... ... ... @ area : num 0.00483 ... ...
... ... ... ... ... @ hole : logi FALSE ... ... ... ... ... @ ringDir: int 1 ... ...
... ... ... ... ... @ coords : num [1:4, 1:2] 20.7 20.6 20.6 20.7 38.3 ...
... ... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ... @ labpt : num [1:2]
25.8 36.8 ... ... ... ... ... @ area : num 0.00459 ... ... ... ... ... @ hole : logi FALSE ... ...
... ... ... ... ... @ ringDir: int 1 ... ... ... ... ... @ coords : num [1:4, 1:2] 25.8 25.7 26 25.8 36.8 ...
... ... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ... ... ... @ labpt : num [1:2] 27.4 36.4 ...
... ... ... ... ... @ area : num 0.00394 ... ...
... ... ... ... ... @ hole : logi FALSE ... ...
... ... ... ... ... @ ringDir: int 1 ...
... ... ... ... ... @ coords : num [1:4, 1:2] 27.4 27.3 27.4 27.4 36.4 ...
... ... ... ... ... $ :Formal class 'Polygon'
[package "sp"] with 5 slots ... ...
... ... ... ... ... @ labpt : num [1:2] 26.8 37.2 ...
... ... ... ... ... @ area : num 0.00383 ...
... ... ... ... ... @ hole : logi FALSE ...
... ... ... ... ... @ ringDir: int 1 ...
... ... ... ... ... @ coords : num [1:4, 1:2] 26.9 26.8 26.9 26.9 37.1 ...
... ... ... ... ... $ :Formal class 'Polygon' [package "sp"] with

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5 slots ... . . . . .@ labpt : num [1:2] 26.9 35.4 ... . . . . .@ area : num 0.00374 ... . . . .
... @ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2]
26.9 26.9 27 26.9 35.4 ... . . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots ... . . .
... @ labpt : num [1:2] 24.5 37.1 ... . . . . .@ area : num 0.00348 ... . . . . .@ hole : logi FALSE ...
... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] 24.5 24.5 24.4
24.5 37.2 ... . . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 23.9 39.2 ... . . . . .@ area : num 0.00321 ... . . . . .@ hole : logi FALSE ...
... . . . . .@ ringDir: int 1 ... . . . . .@ coords : num [1:4, 1:2] 23.9 24 24 23.9 39.1 ... . . .
... . . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 23.5 39.2
... . . . . .@ area : num 0.003 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...
... . . . . .@ coords : num [1:4, 1:2] 23.5 23.4 23.5 23.5 39.2 ... . . . . .$ :Formal class
'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 25.1 37 ... . . . . .@ area : num 0.00257 ...
... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...
... . . . . .@ coords : num [1:4, 1:2] 25.1 25 25.1 25.1 37 ... . . . . .$ :Formal class 'Polygon' [package
"sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 25 39.5 ... . . . . .@ area : num 0.00251
... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...
... . . . . .@ coords : num [1:4, 1:2] 25 25 25.1 25 39.5 ... . . . . .$ :Formal class 'Polygon' [package "sp"]
with 5 slots ... . . . . .@ labpt : num [1:2] 25.6 38.6 ... . . . . .@ area : num 0.00251 ...
... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...
... . . . . .@ coords : num [1:4, 1:2] 25.6 25.5 25.6 25.6 38.5 ... . . . . .$ :Formal class 'Polygon' [package "sp"]
with 5 slots ... . . . . .@ labpt : num [1:2] 25.1 36.7 ... . . . . .@ area : num 0.0024 ...
... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...
... . . . . .@ coords : num [1:4, 1:2] 25.1 25.1 25.2 25.1 36.6 ... . . . . .$ :Formal class 'Polygon' [package "sp"]
with 5 slots ... . . . . .@ labpt : num [1:2] 25.8 36.4 ...
... . . . . .@ area : num 0.00219 ...
... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...
... . . . . .@ coords : num [1:4, 1:2] 25.8 25.7 25.8 25.8 36.3 ...
... . . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 24.1 34.8 ...
... . . . . .@ area : num 0.002 ...
... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...
... . . . . .@ coords : num [1:4, 1:2] 24.1 24.1 24 24.1 34.9 ...
... . . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 24.9 36.6 ...
... . . . . .@ area : num 0.0019 ...
... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...
... . . . . .@ coords : num [1:4, 1:2] 25 24.8 24.9 25 36.6 ...
... . . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... . . . . .@ labpt : num [1:2] 24.5 36.8 ...
... . . . . .@ area : num 0.00146 ...
... . . . . .@ hole : logi FALSE ...
... . . . . .@ ringDir: int 1 ...
... . . . . .@ coords : num [1:4, 1:2] 24.6 24.5
24.6 24.6 36.8 ...
... . . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... . . . . .@ labpt : num [1:2] 21.8 36.7 ...
... . . . . .@ area : num 0.00119 ...
... . . . . .@ hole : logi FALSE ...
... . . . . .@ ringDir: int 1 ...
... . . . . .@ coords : num [1:5, 1:2] 21.8 21.8 21.8 21.8 21.8 ...
... . . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... . . . . .@ labpt : num [1:2] 23.3 35.9 ...
... . . . . .@ area : num 0.00115 ...
... . . . . .@ hole : logi FALSE ...
... . . . . .@ ringDir: int 1 ...
... . . . . .@ coords : num [1:4, 1:2] 23.3 23.3 23.3 35.8 ...
... . . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... . . . . .@ labpt : num [1:2] 23.5 37.3 ...
... . . . . .@ area : num 0.00107 ...
... . . . . .@ hole : logi FALSE ...
... . . . . .@ ringDir: int 1 ...
... . . . . .@ coords : num [1:4, 1:2] 23.4 23.4 23.6 23.4 37.3 ...
... . . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... . . . . .@ labpt : num [1:2] 25.5 36.8 ...
... . . . . .@ area : num 0.000988 ...
... . . . . .@ hole : logi FALSE ...
... . . . . .@ ringDir: int 1 ...
... . . . . .@ coords : num [1:4, 1:2] 25.5 25.4 25.5 25.5 36.8 ...
... . . . . .$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... . . . . .@ labpt : num [1:2] 20.2 39.2 ...
... . . . . .@ area : num 0.000934 ...
... . . . . .@ hole : logi FALSE ...
... . . . . .@ ringDir: int 1 ...
... . . . . .@ coords : num [1:4, 1:2] 20.2 20.1 20.1 20.2 39.2 ...
... . . . . .$ :Formal class 'Polygon' [package

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"sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 23.5 37.5 ... ... ... ... ...@ area : num 0.000903
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 23.5 23.4 23.5 23.5 37.5 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with
5 slots ... ... ... ... ...@ labpt : num [1:2] 25.6 36.9 ... ... ... ... ...@ area : num 0.000881 ... ...
... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2]
25.7 25.6 25.7 25.7 36.9 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ...@ labpt : num [1:2] 23.1 37.3 ... ... ... ... ...@ area : num 0.000857 ... ... ... ... ...@ hole :
logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 23.2 23.1 23.2
23.2 37.2 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt :
num [1:2] 24.6 36.8 ... ... ... ... ...@ area : num 0.000805 ... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 24.7 24.6 24.7 24.7 36.7 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2]
25.8 37.1 ... ... ... ... ...@ area : num 0.000724 ... ... ... ... ...@ hole : logi FALSE ... ... ...
... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 25.8 25.8 25.8 25.8 37.1 ... ... ...
... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 21.7 36.8 ...
... ... ... ... ...@ area : num 0.000698 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir:
int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 21.7 21.7 21.7 21.7 36.7 ... ... ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2]
19.4 39.9 ... ... ... ... ...@ area : num 0.000632 ... ... ... ... ...@ hole : logi FALSE ... ... ...
... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 19.4 19.4 19.4 19.4 39.8 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2]
20.9 38.6 ... ... ... ... ...@ area : num 0.000489 ... ... ... ... ...@ hole : logi FALSE ... ... ...
... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 20.9 20.9 20.9 20.9 38.5 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2]
26.8 37.2 ... ... ... ... ...@ area : num 0.00015 ... ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ...
... ... ... ... ...@ coords : num [1:4, 1:2] 26.8 26.8 26.8 26.8 37.2 ... ... ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ...
... ... ... ... ...@ labpt : num [1:2] 25.4 36.4 ... ... ... ... ...@ area : num 0.000114 ... ...
... ... ... ... ...@ hole : logi FALSE ... ... ...
... ... ... ... ...@ ringDir: int 1 ... ...
... ... ... ... ...@ coords : num [1:4, 1:2] 25.4 25.4 25.4 25.4 25.4
25.4 36.4 ... ... ...
... ... ... ... ...@ plotOrder: int [1:68] 1 2 3 4 5 6 7 8 9 10 ... ...
... ... ... ... ...@ labpt : num [1:2] 22.6 39.5 ... ...
... ... ... ... ...@ ID : chr "GRC" ... ...
... ... ... ... ...@ area : num 13.2 ... ...$ :Formal class 'Polygons' [package "sp"]
with 5 slots ... ...
... ... ... ... ...@ Polygons :List of 1 ... ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"]
with 5 slots ... ...
... ... ... ... ...@ labpt : num [1:2] -90.3 15.7 ... ...
... ... ... ... ...@ area : num 9.02 ... ...
... ... ... ... ...@ hole : logi FALSE ... ...
... ... ... ... ...@ ringDir: int 1 ... ...
... ... ... ... ...@ coords : num [1:17, 1:2] -90.6 -91.4 -92.2 -91.7 -90.4 ...
... ... ... ... ...@ plotOrder: int 1 ... ...
... ... ... ... ...@ labpt : num [1:2] -90.3 15.7 ...
... ... ... ... ...@ ID : chr "GTM" ...
... ... ... ... ...@ area : num 9.02 ... ...
... ... ... ... ...$ :Formal class 'Polygons' [package "sp"]
with 5 slots ... ...
... ... ... ... ...@ Polygons :List of 1 ... ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"]
with 5 slots ... ...
... ... ... ... ...@ labpt : num [1:2] -10.9 10.4 ...
... ... ... ... ...@ area : num 20.3 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:39, 1:2] -13.6 -14.7 -14.7 -15 -14.7 ...
... ... ... ... ...@ plotOrder: int 1 ...
... ... ... ... ...@ labpt : num [1:2] -10.9 10.4 ...
... ... ... ... ...@ ID : chr "GIN" ...
... ... ... ... ...@ area : num 20.3 ...
... ... ... ... ...$ :Formal class 'Polygons' [package "sp"]
with 5 slots ... ...
... ... ... ... ...@ Polygons :List of 2 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"]
with 5 slots ... ...
... ... ... ... ...@ labpt : num [1:2] -58.97 4.75 ...
... ... ... ... ...@ area : num 17.1 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:28, 1:2] -59.8 -58.5 -58.6 -58.3 -57.2 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"]
with 5 slots ...
... ... ...
... ... ... ... ...@ labpt : num [1:2] -58.4 6.94 ...
... ... ... ... ...@ area : num 0.00331 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -58.5 -58.4
-58.3 -58.5 6.9 ...
... ... ... ... ...@ plotOrder: int [1:2] 1 2 ...
... ... ... ... ...@ labpt : num [1:2] -58.97 4.75 ...
... ... ...
... ... ... ... ...@ ID : chr "GUY" ...
... ... ... ... ...@ area : num 17.1 ...
... ... ... ... ...$ :Formal class 'Polygons' [package "sp"]
with 5
```

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slots ... ... ...@ Polygons :List of 5 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots
... ... ... ... ...@ labpt : num [1:2] -72.7 18.9 ... ... ... ... ...@ area : num 2.42 ... ... ... ... ...@ hole
: logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:14, 1:2] -72.7 -71.8
-71.7 -72 -71.8 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -73 18.8 ... ... ... ... ...@ area : num 0.0282 ... ... ... ... ...@ hole : logi FALSE ..
... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -72.8 -73.3 -72.9 -72.8 18.7
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -72.8 20 ... ... ... ... ...@ area : num 0.0109 ... ... ... ... ...@ hole : logi FALSE ... ... ...
...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] -72.6 -73 -72.8 -72.6 20 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -73.7 18.1 ..
... ... ... ... ...@ area : num 0.00182 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -73.6 -73.7 -73.7 -73.6 18.1 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -73.8 18.6 ... ... ...
...@ area : num 0.00167 ... ... ... ... ...@ hole : logi TRUE ... ... ... ... ...@ ringDir: int -1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -73.7 -73.7 -73.8 -73.7 18.6 ... ... ... ...@ plotOrder: int [1:5] 1 2 3
4 5 ... ... ...@ labpt : num [1:2] -72.7 18.9 ... ... ...@ ID : chr "HTI" ... ... ...@ area : num 2.46 ...
...$ :Formal class 'Polygons' [package "sp"] with 5 slots ... ... ... ...@ Polygons :List of 8 ... ... ...
...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -86.7 14.8 ..
... ... ... ...@ area : num 9.54 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:23, 1:2] -85.8 -84.3 -83.9 -84.2 -84.1 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -86.4 16.4 ...
... ... ... ... ...@ area : num 0.00907 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -86.6 -86.4 -86.3 -86.6 16.3 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -85.9 16.5 ...
... ... ... ... ...@ area : num 0.00266 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -85.9 -85.9 -85.8 -85.9 16.4 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] -87.6 13.3 ...
... ... ... ... ...@ area : num 0.00265 ... ... ...
... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -87.6 -87.6 -87.7 -87.6 13.4 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -86.9 16.1 ...
... ... ... ... ...@ area : num 0.00189 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -86.9 -87 -86.9 -86.9 16.1 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -87.6 13.3 ...
... ... ... ... ...@ area : num 0.00106 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -87.6 -87.7 -87.6 -87.6 13.2 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -83.9 17.4 ...
... ... ... ... ...@ area : num 7.23e-05 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -83.9 -83.9 -83.9 -83.9 17.4 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -83.9 17.4 ...
... ... ... ... ...@ area : num 5.21e-05 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] -83.9 -84 -83.9 -83.9 17.4 ...
... ... ... ... ...@ plotOrder: int [1:8] 1 2 3 4 5 6 7 8 ...
... ... ... ... ...@ labpt : num [1:2] -86.7 14.8 ...
... ... ... ... ...@ ID : chr "HND" ...
... ... ... ... ...@ area : num 9.56 ...
...$ :Formal class 'Polygons' [package "sp"] with 5 slots ...
... ... ... ...@ Polygons :List of 19 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 16.4 45.2 ...
... ... ... ... ...@ area : num 5.81 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:22, 1:2] 16.6 16.6 17.7 18.8 19 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 17.8 42.8 ...
... ... ... ... ...@ area : num 0.124 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:6, 1:2] 17.3 17.6 18.5 18.5 17 ...
... ... ... ... ...$ :Formal class 'Polygon'

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[package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 14.6 45.1 ... ... ... ... ...@ area : num 0.0339 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 14.8 14.4 14.5 14.8 44.9 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 14.4 44.9 ... ... ... ... ...@ area : num 0.0318 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:6, 1:2] 14.5 14.5 14.3 14.4 14.3 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 16.7 43.2 ... ... ... ... ...@ area : num 0.0214 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 16.6 17.2 16.4 16.6 43.2 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 16.7 43.3 ... ... ... ... ...@ area : num 0.0179 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 16.9 16.4 16.8 16.9 43.3 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 15.1 44 ... ... ... ... ...@ area : num 0.0131 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 14.9 15.2 15.1 14.9 44.2 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 14.4 44.6 ... ... ... ... ...@ area : num 0.00753 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 14.5 14.4 14.3 14.5 44.5 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 17.5 42.8 ... ... ... ... ...@ area : num 0.0058 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 17.7 17.3 17.4 17.7 42.7 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 14.8 44.8 ... ... ... ... ...@ area : num 0.00525 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 14.8 14.7 14.8 44.8 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 16.2 43.1 ... ... ... ... ...@ area : num 0.00486 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 16.2 16.1 16.3 16.2 43 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 16.3 43.4 ... ... ... ... ...@ area : num 0.00337 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 16.4 16.2 16.3 16.4 43.3 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 15.4 44 ... ... ... ... ...@ area : num 0.00335 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 15.4 15.3 15.4 15.4 43.9 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 14.9 44.5 ... ... ... ... ...@ area : num 0.00325 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 14.8 14.7 15.2 14.8 44.6 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 15.2 44.1 ... ... ... ... ...@ area : num 0.00289 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 15.3 15.1 15.2 15.3 44 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 16.9 42.8 ... ... ... ... ...@ area : num 0.00265 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 16.9 16.8 16.9 16.9 42.7 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 15.3 43.8 ... ... ... ... ...@ area : num 0.00103 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 15.3 15.4 15.2 15.3 43.8 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 15.7 43.7 ... ... ... ... ...@ area : num 0.000856 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 15.7 15.6 15.7 15.7 43.6 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 16.9 43 ... ... ... ... ...@ area : num 4.81e-05 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 16.8 17.2 16.6 16.8 43 ... ... ... ... ...@ plotOrder: int [1:19] 1 2 3 4 5 6 7 8
```

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9 10 ... ... ... @ labpt : num [1:2] 16.4 45.2 ... ... ... @ ID : chr "HRV" ... ... ... @ area : num 6.09
... $ :Formal class 'Polygons' [package "sp"] with 5 slots ... ... ... @ Polygons :List of 1 ... ... ... ...
:Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... @ labpt : num [1:2] 19.4 47.2 ...
... ... ... ... @ area : num 11.1 ... ... ... ... @ hole : logi FALSE ... ... ... ... @ ringDir: int 1 ...
... ... ... ... @ coords : num [1:19, 1:2] 18.8 17.7 16.6 16.1 16.5 ... ... ... ... @ plotOrder: int 1 ...
... @ labpt : num [1:2] 19.4 47.2 ... ... ... @ ID : chr "HUN" ... ... ... @ area : num 11.1 ... $ :Formal
class 'Polygons' [package "sp"] with 5 slots ... ... ... @ Polygons :List of 1 ... ... ... ...
:Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... @ labpt : num [1:2] -18.6 65 ...
... ... ... ... @ area : num 18.4 ... ... ... ... @ hole : logi FALSE ... ... ... ... @ ringDir: int 1 ...
... ... ... ... @ coords : num [1:60, 1:2] -15.1 -14.6 -14.8 -14.3 -14.6 ... ... ... ... @ plotOrder: int 1 ...
... @ labpt : num [1:2] -18.6 65 ... ... ... @ ID : chr "ISL" ... ... ... @ area : num 18.4 ... $ :Formal
class 'Polygons' [package "sp"] with 5 slots ... ... ... @ Polygons :List of 46 ... ... ... ...
:Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... @ labpt : num [1:2] 79.6 22.9 ...
... ... ... ... @ area : num 277 ... ... ... ... @ hole : logi FALSE ... ... ... ... @ ringDir: int 1 ...
... ... ... ... @ coords : num [1:163, 1:2] 78.1 78.3 79 78.8 79.5 ... ... ... ... $ :Formal class 'Polygon' [package
"sp"] with 5 slots ... ... ... ... @ labpt : num [1:2] 92.7 11.8 ... ... ... ... @ area : num 0.0669 ...
... ... ... ... @ hole : logi FALSE ... ... ... ... @ ringDir: int 1 ... ... ... ... @ coords : num [1:4,
1:2] 92.7 92.7 92.5 92.7 12.2 ... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... @ labpt : num [1:2] 93 13.2 ... ... ... ... @ area : num 0.0521 ... ... ... ... @ hole :
logi FALSE ... ... ... ... @ ringDir: int 1 ... ... ... ... @ coords : num [1:4, 1:2] 93.1 92.8 93
93.1 13.2 ... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... @ labpt :
num [1:2] 92.9 12.6 ... ... ... ... @ area : num 0.0518 ... ... ... ... @ hole : logi FALSE ...
... ... ... ... @ ringDir: int 1 ... ... ... ... @ coords : num [1:4, 1:2] 92.9 93 92.8 92.9 12.9 ...
... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... @ labpt : num [1:2] 93.8
6.99 ... ... ... ... @ area : num 0.041 ... ... ... ... @ hole : logi FALSE ... ... ... ... @ ringDir:
int 1 ... ... ... ... @ coords : num [1:4, 1:2] 93.91 93.82 93.67 93.91 7.03 ... ... ... ... $ :Formal
class 'Polygon' [package "sp"] with 5 slots ... ... ... ... @ labpt : num [1:2] 92.4 10.7 ...
... ... ... ... @ area : num 0.0282 ... ... ... ... @ hole : logi FALSE ... ... ... ... @ ringDir: int 1 ...
... ... ... ... @ coords : num [1:4, 1:2] 92.5 92.3 92.5 92.5 10.5 ... ... ... ... $ :Formal class 'Polygon'
[package "sp"] with 5 slots ... ... ... ... @ labpt : num [1:2] 88.1 21.7 ... ... ... ... @ area : num
0.0114 ... ... ... ... @ hole : logi FALSE ... ... ... ... @ ringDir: int 1 ... ... ... ... @ coords :
num [1:4, 1:2] 88.1 88 88.1 88.1 21.6 ... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5
slots ... ... ... ... @ labpt : num [1:2] 92.8 12.2 ... ... ... ... @ area : num 0.0105 ...
... ... ... ... @ hole : logi FALSE ... ... ... ... @ ringDir: int 1 ... ... ... ... @ coords : num [1:4, 1:2] 92.8
92.9 92.8 92.8 12.3 ... ... ... ... $ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... @ labpt : num [1:2] 93.48 8.12 ... ... ... ... @ area : num 0.00743 ...
... ... ... ... @ hole : logi FALSE ...
... ... ... ... @ ringDir: int 1 ...
... ... ... ... @ coords : num [1:4, 1:2] 93.49 93.44 93.51
93.49 7.99 ...
... $ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... @ labpt : num [1:2] 93.69 7.34 ...
... ... ... ... @ area : num 0.00642 ...
... ... ... ... @ hole : logi FALSE ...
... ... ... ... @ ringDir: int 1 ...
... ... ... ... @ coords : num [1:4, 1:2] 93.64 93.69 93.73 93.64
7.25 ...
... $ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... @ labpt : num [1:2] 93.37 7.92 ...
... ... ... ... @ area : num 0.00601 ...
... ... ... ... @ hole : logi FALSE ...
... ... ... ... @ ringDir: int 1 ...
... ... ... ... @ coords : num [1:4, 1:2] 93.45 93.35 93.32 93.45 7.87 ...
... ... ... ...
... $ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... @ labpt : num [1:2]
92.7 11.4 ...
... ... ... ... @ area : num 0.00546 ...
... ... ... ... @ hole : logi FALSE ...
... ... ... ...
... @ ringDir: int 1 ...
... ... ... ... @ coords : num [1:4, 1:2] 92.6 92.6 92.7 92.6 11.4 ...
... ... ...
... $ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... @ labpt : num [1:2] 88.6 21.8 ...
... ... ...
... @ area : num 0.00526 ...
... ... ...
... @ hole : logi FALSE ...
... ... ...
... @ ringDir:

```

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int 1 .. . . . . . . .@ coords : num [1:6, 1:2] 88.6 88.6 88.6 88.6 88.6 ... . . . . . . .$. :Formal class
'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2] 93.1 8.27 .. . . . . . . .@ area : num 0.00466 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num [1:4, 1:2] 93.2 93.1 93.1 93.2 8.2 ... . . . . . . .$. :Formal class 'Polygon' [package
"sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2] 93 12 .. . . . . . . .@ area : num 0.00458 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num [1:4, 1:2] 93.1 92.9 93 93.1 11.9 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots
.. . . . . . .@ labpt : num [1:2] 88.9 21.6 .. . . . . . . .@ area : num 0.00447 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num [1:6, 1:2] 88.9 88.8 88.8 88.8 88.9 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2] 92.75 9.18 .. . . . . . . .@ area : num 0.0043 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num [1:4, 1:2] 92.77 92.71 92.76 92.77 9.12 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2] 72.7 21.6 .. . . . . . . .@ area : num 0.0037 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num [1:4, 1:2] 72.7 72.6 72.8 72.7 21.6 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2] 80.9 15.8 .. . . . . . . .@ area : num 0.00335 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num [1:4, 1:2] 80.9 80.9 81 80.9 15.7 ... . . . . . . .$. :Formal class 'Polygon'
[package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2] 92.7 12.9 .. . . . . . . .@ area : num 0.00284 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num [1:4, 1:2] 92.7 92.7 92.7 92.7 12.8 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with
5 slots .. . . . . . . .@ labpt : num [1:2] 93.54 7.97 .. . . . . . . .@ area : num 0.00229 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num [1:4, 1:2] 93.57 93.5 93.54 93.57 7.93 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2] 93.1 12.1 .. . . . . . . .@ area : num 0.00177 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num [1:4, 1:2] 93.1 93.1 93.1 93.1 12.1 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2] 92.3 11.6 .. . . . . . . .@ area : num 0.00173 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num [1:4, 1:2] 92.3 92.2 92.3 92.3 11.5 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2] 88.1 21.9 .. . . . . . . .@ area : num 0.0016 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num [1:4, 1:2] 88.1 88.1 88.1 88.1 21.8 ... . . . . . . .$. :Formal class
'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2] 93.6 8.5 .. . . . . . . .@ area : num 0.00142 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num [1:4, 1:2] 93.61 93.6 93.63 93.61 8.43 ... . . . . . . .$. :Formal class 'Polygon'
[package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2] 93 13.7 .. . . . . . . .@ area : num 0.000998 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num [1:4, 1:2] 93 93 93 93 13.6 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots
.. . . . . . .@ labpt : num [1:2] 73.04 8.28 .. . . . . . . .@ area : num 0.000874 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num [1:4, 1:2] 73.03 73.02 73.08 73.03 8.25 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2] 92.9 12.4 .. . . . . . . .@ area : num 0.000449 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num [1:4, 1:2] 92.9 92.9 92.9 92.9 12.4 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2] 72.8 11.2 .. . . . . . . .@ area : num 0.000321 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir: int 1 .. . . . . . . .@ coords : num [1:4, 1:2] 72.8 72.8 72.8 72.8 11.2 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . . .@ labpt : num [1:2] 94.3 13.4 .. . . . . . . .@ area : num 0.000259 .. . . . . . . .@ hole : logi FALSE .. . . . . . . .@ ringDir:

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int 1 ... . . . . . . . .@ coords : num [1:4, 1:2] 94.3 94.3 94.3 94.3 13.4 ... . . . . . . . .$. :Formal class
'Polygon' [package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] 73.6 10.1 ... . . . . . . . .@ area : num 0.000235 ... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . .
... . . . .@ coords : num [1:4, 1:2] 73.6 73.6 73.6 73.6 10.1 ... . . . . . . . $. :Formal class 'Polygon'
[package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] 93.9 12.3 ... . . . . . . . .@ area : num
0.00022 ... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords :
num [1:4, 1:2] 93.9 93.8 93.9 93.9 12.3 ... . . . . . . . $. :Formal class 'Polygon' [package "sp"] with
5 slots ... . . . . . . . .@ labpt : num [1:2] 72.2 10.8 ... . . . . . . . .@ area : num 0.000193 ... . . .
... . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:4, 1:2]
72.2 72.2 72.2 72.2 10.8 ... . . . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . .
... . . . .@ labpt : num [1:2] 86.3 20 ... . . . . . . . .@ area : num 0.000166 ... . . . . . . . .@ hole : logi
TRUE ... . . . . . . . .@ ringDir: int -1 ... . . . . . . . .@ coords : num [1:4, 1:2] 86.3 86.3 86.3 86.3
20 ... . . . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . . .@ labpt : num
[1:2] 72.6 10.6 ... . . . . . . . .@ area : num 0.000135 ... . . . . . . . .@ hole : logi FALSE ... . . .
... . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:4, 1:2] 72.6 72.6 72.7 72.6 10.6 ... . . .
... . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] 73 11.5 ...
... . . . . . . . .@ area : num 0.00013 ... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int
1 ... . . . . . . . .@ coords : num [1:4, 1:2] 73 73 73 73 11.5 ... . . . . . . . $. :Formal class 'Polygon'
[package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] 93.1 12.1 ... . . . . . . . .@ area : num
8.65e-05 ... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords :
num [1:4, 1:2] 93.1 93.1 93.1 93.1 12.1 ... . . . . . . . $. :Formal class 'Polygon' [package "sp"] with
5 slots ... . . . . . . . .@ labpt : num [1:2] 72.3 10.9 ... . . . . . . . .@ area : num 8.36e-05 ... . . .
... . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:4, 1:2]
72.3 72.3 72.3 72.3 10.9 ... . . . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . .
... . . . .@ labpt : num [1:2] 73.7 10.8 ... . . . . . . . .@ area : num 7.88e-05 ... . . . . . . . .@ hole :
logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:4, 1:2] 73.7 73.7 73.7 73.7
73.7 10.8 ... . . . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . . .@ labpt :
num [1:2] 72.7 11.1 ... . . . . . . . .@ area : num 7.63e-05 ... . . . . . . . .@ hole : logi FALSE ... .
... . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:4, 1:2] 72.7 72.7 72.7 72.7 11.1 ... . . .
... . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] 72.7 11.7
... . . . . . . . .@ area : num 6.34e-05 ... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir:
int 1 ... . . . . . . . .@ coords : num [1:4, 1:2] 72.7 72.7 72.7 72.7 11.7 ... . . . . . . . $. :Formal class
'Polygon' [package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] 92.9 13.4 ... . . . . . . . @ area : num
5.85e-05 ... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . .
... . . . .@ coords : num [1:4, 1:2] 92.9 92.9 92.9 92.9 13.4 ... . . . . . . . $. :Formal class 'Polygon'
[package "sp"] with 5 slots ... . . . . . . . .@ labpt : num [1:2] 72.1 11.2 ... . . . . . . . .@ area : num
4.92e-05 ... . . . . . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords :
num [1:4, 1:2] 72.1 72.1 72.1 72.1 11.2 ... . . . . . . . $. :Formal class 'Polygon' [package "sp"] with
5 slots ... . . . . . . . .@ labpt : num [1:2] 93.66 7.41 ... . . . . . . . .@ area : num 4.59e-05 ... . .
... . . . .@ hole : logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:4, 1:2]
93.66 93.65 93.66 93.66 7.41 ... . . . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots ...
... . . . . . . . .@ labpt : num [1:2] 92.8 12.3 ... . . . . . . . .@ area : num 2.72e-05 ... . . . . . . .@ hole :
logi FALSE ... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:4, 1:2] 92.8 92.8
92.8 92.8 12.3 ... . . . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . .@ labpt :
num [1:2] 82.4 16.9 ... . . . . . . . .@ area : num 9.52e-06 ... . . . . . . . .@ hole : logi FALSE
... . . . . . . . .@ ringDir: int 1 ... . . . . . . . .@ coords : num [1:4, 1:2] 82.4 82.4 82.4 82.4 16.9 ...
... . . . . . . . .@ plotOrder: int [1:46] 1 2 3 4 5 6 7 8 9 10 ... . . . . . . . .@ labpt : num [1:2] 79.6 22.9 ...
... . . . . . . . .@ ID : chr "IND" ... . . . . . . . .@ area : num 278 ... . $. :Formal class 'Polygons' [package "sp"] with 5

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slots ... ... ...@ Polygons :List of 8 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots
... ... ... ... ...@ labpt : num [1:2] 54.3 32.6 ... ... ... ... ...@ area : num 156 ... ... ... ... ...@ hole :
logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:71, 1:2] 45 46.2 46.5
48 48.4 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt :
num [1:2] 55.9 26.8 ... ... ... ... ...@ area : num 0.0619 ... ... ... ... ...@ hole : logi FALSE ... ...
... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:5, 1:2] 56.2 55.3 55.8 55.8 56.2 ... ...
... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 55.7 26.9
... ... ... ... ...@ area : num 0.00566 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir:
int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 55.7 55.6 55.7 55.7 26.8 ... ... ... ... ...$ :Formal class
'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 54 26.5 ... ... ... ... ...@ area :
num 0.00414 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ...
... ... ...@ coords : num [1:4, 1:2] 54 53.9 54 54 26.5 ... ... ... ... ...$ :Formal class 'Polygon' [package
"sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 56.5 27.1 ... ... ... ...@ area : num 0.00263 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:5,
1:2] 56.5 56.4 56.5 56.5 56.5 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 53.2 26.8 ... ... ... ... ...@ area : num 0.0024 ... ... ... ...@ hole :
logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 53.3 53.2 53.2
53.3 26.8 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt :
num [1:2] 56.4 26.9 ... ... ... ... ...@ area : num 0.00201 ... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 56.3 56.3 56.4 56.3 26.8 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 50.3 29.3
... ... ... ... ...@ area : num 0.00147 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir:
int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 50.3 50.3 50.3 50.3 29.2 ... ... ... ... ...@ plotOrder: int
[1:8] 1 2 3 4 5 6 7 8 ... ... ...@ labpt : num [1:2] 54.3 32.6 ... ... ...@ ID : chr "IRN" ... ...
...@ area : num 156 ...$ :Formal class 'Polygons' [package "sp"] with 5 slots ... ... ... ...@ Polygons :List
of 2 ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num
[1:2] 35 31.4 ... ... ... ... ...@ area : num 2.19 ... ... ... ... ...@ hole : logi FALSE ... ...
... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:13, 1:2] 35.6 35.6 35.6 35.3 34.9 ...
... ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 35.3 31.8 ...
... ... ... ... ...@ area : num 8.28e-05 ... ... ... ... ...@ hole : logi FALSE ... ...
... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 35.3 35.3 35.2 35.3 31.8 ...
... ... ... ... ...@ plotOrder: int [1:2] 1 2 ... ... ...@ labpt : num [1:2] 35 31.4 ... ...
... ... ...@ ID : chr "ISR" ... ...
... ... ...@ area : num 2.19 ...
... ... ...$ :Formal class 'Polygons' [package "sp"] with 5 slots ... ... ... ...@ Polygons :List of 24 ...
... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 12.2 43.5
... ... ... ... ...@ area : num 27.9 ... ... ... ... ...@ hole : logi FALSE ... ...
... ... ... ... ...@ ringDir: int 1 ... ...
... ... ... ... ...@ coords : num [1:52, 1:2] 12.1 12.4 13.7 13.4 13.7 ...
... ... ... ... ...$ :Formal class
'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 9.05 40.11 ...
... ... ... ... ...@ area : num 2.51 ...
... ... ... ... ...@ hole : logi FALSE ... ...
... ... ... ... ...@ ringDir: int 1 ... ...
... ... ... ... ...@ coords : num [1:9, 1:2] 9.51 9.83 9.57 9.02 8.86 ...
... ... ... ... ...$ :Formal class 'Polygon' [package
"sp"] with 5 slots ... ...
... ... ... ... ...@ labpt : num [1:2] 14.2 37.6 ...
... ... ... ... ...@ area : num 2.4 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:8,
1:2] 15.5 15.1 15.3 15.1 12.4 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ...
... ... ... ...@ labpt : num [1:2] 10.3 42.8 ...
... ... ... ... ...@ area : num 0.0223 ...
... ...
... ... ... ... ...@ hole : logi FALSE ...
... ...
... ... ... ... ...@ ringDir: int 1 ...
... ...
... ... ... ... ...@ coords : num [1:4, 1:2] 10.4 10.4 10.4
10.4 42.8 ...
... ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ...
... ... ... ... ...@ labpt : num [1:2] 8.29 41.06 ...
... ...
... ... ... ... ...@ area : num 0.00428 ...
... ...
... ... ... ... ...@ hole : logi FALSE ...
... ...
... ... ... ... ...@ ringDir: int 1 ...
... ...
... ... ... ... ...@ coords : num [1:4, 1:2] 8.34 8.22 8.32 8.34 41.06 ...
... ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ...
... ... ... ... ...@ labpt : num [1:2]

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12 36.8 ... ... ... ... ...@ area : num 0.00398 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 12 11.9 12 12 36.7 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 8.27 39.15 ... ... ... ... ...@ area : num 0.00367 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 8.29 8.22 8.3 8.29 39.09 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 12.5 43.9 ... ... ... ... ...@ area : num 0.00354 ... ... ... ... ...@ hole : logi TRUE ... ... ... ... ...@ ringDir: int -1 ... ... ... ... ...@ coords : num [1:4, 1:2] 12.5 12.5 12.4 12.5 43.9 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 12.4 45.4 ... ... ... ... ...@ area : num 0.00227 ... ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 12.4 12.3 12.4 12.4 45.4 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 13.9 40.7 ... ... ... ... ...@ area : num 0.00195 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 14 13.9 13.9 14 40.7 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 14.9 38.5 ... ... ... ... ...@ area : num 0.00185 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 15 14.9 15 15 38.4 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 14.8 38.6 ... ... ... ... ...@ area : num 0.00172 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 14.9 14.8 14.9 14.9 38.5 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 9.82 43.04 ... ... ... ... ...@ area : num 0.00168 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 9.84 9.81 9.8 9.83 9.84 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 15 38.4 ... ... ... ... ...@ area : num 0.00107 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 15 14.9 15 15 38.4 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 12.3 37.9 ... ... ... ... ...@ area : num 0.000946 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 12.4 12.3 12.3 12.4 37.9 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 10.9 42.4 ... ... ... ... ...@ area : num 0.000918 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 10.9 10.9 10.9 10.9 42.3 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 13 40.9 ... ... ... ... ...@ area : num 0.000735 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 13 13 13 13 40.9 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 15.2 38.8 ... ... ... ... ...@ area : num 0.00067 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 15.2 15.2 15.2 15.2 38.8 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 14.2 40.6 ... ... ... ... ...@ area : num 0.000647 ... ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 14.2 14.3 14.2 14.2 40.6 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 12.1 38 ... ... ... ... ...@ area : num 0.000535 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 12.1 12 12.1 12.1 38 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 10.3 42.3 ... ... ... ... ...@ area : num 0.000458 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 10.3 10.3 10.3 10.3 42.3 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 13.2 38.7 ... ... ... ... ...@ area : num 0.000419 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 13.2 13.2 13.2 13.2 38.7 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 10.1 42.6 ...

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... . . . . . . .@ area : num 0.000379 ... . . . . . . .@ hole : logi FALSE ... . . . . . . .@ ringDir:
int 1 ... . . . . . . .@ coords : num [1:4, 1:2] 10.1 10.1 10.1 10.1 42.6 ... . . . . . . .$. :Formal class
'Polygon' [package "sp"] with 5 slots ... . . . . . . .@ labpt : num [1:2] 12.5 41.9 ... . . . . . . .@ area :
num 3.37e-05 ... . . . . . . .@ hole : logi TRUE ... . . . . . . .@ ringDir: int -1 ... . . . . . . .@ coords :
num [1:4, 1:2] 12.4 12.5 12.5 12.4 41.9 ... . . . . . . .@ plotOrder: int [1:24] 1 2 3 4 5 6 7
8 9 10 ... . . . . . . .@ labpt : num [1:2] 12.2 43.5 ... . . . . . . .@ ID : chr "ITA" ... . . . . . . .@ area : num 32.9
... . . . . . . .$. :Formal class 'Polygons' [package "sp"] with 5 slots ... . . . . . . .@ Polygons :List of 3 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . .@ labpt : num [1:2] -5.54 7.6 ...
... . . . . . . .@ area : num 26.6 ... . . . . . . .@ hole : logi FALSE ... . . . . . . .@ ringDir: int 1 ... . . .
... . . . . . . .@ coords : num [1:32, 1:2] -4.79 -5.32 -5 -7.53 -7.42 ... . . . . . . .$. :Formal class 'Polygon'
[package "sp"] with 5 slots ... . . . . . . .@ labpt : num [1:2] -4.31 5.23 ... . . . . . . .@ area : num
0.0223 ... . . . . . . .@ hole : logi FALSE ... . . . . . . .@ ringDir: int 1 ... . . . . . . .@ coords :
num [1:4, 1:2] -4.79 -4.15 -4 -4.79 5.17 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with
5 slots ... . . . . . . .@ labpt : num [1:2] -3.12 5.1 ... . . . . . . .@ area : num 0.000813 ... . . .
... . . . . . . .@ hole : logi FALSE ... . . . . . . .@ ringDir: int 1 ... . . . . . . .@ coords : num [1:4, 1:2]
-3.1 -3.1 -3.17 -3.1 5.11 ... . . . . . . .@ plotOrder: int [1:3] 1 2 3 ... . . . . . . .@ labpt : num [1:2] -5.54
7.6 ... . . . . . . .@ ID : chr "CIV" ... . . . . . . .@ area : num 26.6 ... . . . :Formal class 'Polygons' [package
"sp"] with 5 slots ... . . . . . . .@ Polygons :List of 1 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"]
with 5 slots ... . . . . . . .@ labpt : num [1:2] 43.8 33.1 ... . . . . . . .@ area : num 42.4 ... . . . .
... . . . . . . .@ hole : logi FALSE ... . . . . . . .@ ringDir: int 1 ... . . . . . . .@ coords : num [1:34, 1:2]
45.8 45.4 46.2 46.1 47.4 ... . . . . . . .@ plotOrder: int 1 ... . . . . . . .@ labpt : num [1:2] 43.8 33.1 ...
... . . . . . . .@ ID : chr "IRQ" ... . . . . . . .@ area : num 42.4 ... . . . :Formal class 'Polygons' [package "sp"] with 5
slots ... . . . . . . .@ Polygons :List of 67 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots
... . . . . . . .@ labpt : num [1:2] 138 36.6 ... . . . . . . .@ area : num 23.4 ... . . . . . . .@ hole :
logi FALSE ... . . . . . . .@ ringDir: int 1 ... . . . . . . .@ coords : num [1:57, 1:2] 141 142 142
141 141 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . .@ labpt :
num [1:2] 142.5 43.3 ... . . . . . . .@ area : num 8.88 ... . . . . . . .@ hole : logi FALSE ... . . .
... . . . . . . .@ ringDir: int 1 ... . . . . . . .@ coords : num [1:22, 1:2] 142 144 145 145 145 ...
... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . .@ labpt : num [1:2] 130.9
32.6 ... . . . . . . .@ area : num 3.91 ... . . . . . . .@ hole : logi FALSE ... . . . . . . .@ ringDir:
int 1 ... . . . . . . .@ coords : num [1:24, 1:2] 131 132 132 132 132 ... . . . . . . .$. :Formal class
'Polygon' [package "sp"] with 5 slots ... . . . . . . .@ labpt : num [1:2] 133.4 33.6 ... . . . . . . .@ area :
num 1.87 ... . . . . . . .@ hole : logi FALSE ... . . . . . . .@ ringDir: int 1 ... . . . . . . .@ coords :
num [1:10, 1:2] 134 135 134 134 133 ... . . . . . . .$. :Formal class 'Polygon' [package
"sp"] with 5 slots ... . . . . . . .@ labpt : num [1:2] 128 26.5 ... . . . . . . .@ area : num 0.151 ...
... . . . . . . .@ hole : logi FALSE ... . . . . . . .@ ringDir: int 1 ... . . . . . . .@ coords : num
[1:5, 1:2] 128 128 128 128 128 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots
... . . . . . . .@ labpt : num [1:2] 129.4 28.3 ... . . . . . . .@ area : num 0.0619 ... . . . . . . .@ hole :
logi FALSE ... . . . . . . .@ ringDir: int 1 ... . . . . . . .@ coords : num [1:4, 1:2] 129.7
129.4 129.1 129.7 28.5 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . .
... . . . . . . .@ labpt : num [1:2] 134.8 34.4 ... . . . . . . .@ area : num 0.0364 ... . . . . . . .@ hole :
logi FALSE ... . . . . . . .@ ringDir: int 1 ... . . . . . . .@ coords : num [1:4, 1:2] 134.8 134.7 135
134.8 34.2 ... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . .@ labpt :
num [1:2] 129.4 34.5 ... . . . . . . .@ area : num 0.0241 ... . . . . . . .@ hole : logi FALSE ... . .
... . . . . . . .@ ringDir: int 1 ... . . . . . . .@ coords : num [1:4, 1:2] 129.3 129.3 129.5 129.3 34.3 ...
... . . . . . . .$. :Formal class 'Polygon' [package "sp"] with 5 slots ... . . . . . . .@ labpt : num [1:2]
128.7 32.7 ... . . . . . . .@ area : num 0.0237 ... . . . . . . .@ hole : logi FALSE ... . . . . . . .@ ringDir:
int 1 ... . . . . . . .@ coords : num [1:4, 1:2] 128.9 128.6 128.7 128.9 32.6 ... . . . . . . .$. 
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:Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . ...@ labpt : num [1:2] 130.1 32.4
... . . . . . ...@ area : num 0.0222 .. . . . . ...@ hole : logi FALSE .. . . . . . ...@ ringDir:
int 1 .. . . . . . ...@ coords : num [1:4, 1:2] 130 130.2 130.2 130 32.2 .. . . . . .$. :Formal class
'Polygon' [package "sp"] with 5 slots .. . . . . ...@ labpt : num [1:2] 124.2 24.4 .. . . . . . ...@ area :
num 0.0217 .. . . . . . ...@ hole : logi FALSE .. . . . . . ...@ ringDir: int 1 .. . . . . . ...@ coords :
num [1:5, 1:2] 124 124 124 124 124 .. . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . ...@ labpt : num [1:2] 130.5 30.3 .. . . . . . ...@ area : num 0.0213
... . . . . . ...@ hole : logi FALSE .. . . . . . ...@ ringDir: int 1 .. . . . . . ...@ coords : num
[1:4, 1:2] 130.6 130.4 130.7 130.6 30.2 .. . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . ...@ labpt : num [1:2] 138.4 38.1 .. . . . . . ...@ area : num 0.0196 .. . . . . .
...@ hole : logi FALSE .. . . . . . ...@ ringDir: int 1 .. . . . . . ...@ coords : num [1:4, 1:2]
138 138 139 138 38 .. . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . ...@ labpt :
num [1:2] 130.9 30.6 .. . . . . . ...@ area : num 0.0174 .. . . . . . ...@ hole : logi FALSE .. . . . . .
...@ ringDir: int 1 .. . . . . . ...@ coords : num [1:4, 1:2] 130.9 130.9 131.1
130.9 30.4 .. . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . ...@ labpt :
num [1:2] 129.3 34.2 .. . . . . . ...@ area : num 0.0154 .. . . . . . ...@ hole : logi FALSE .. . . . . .
...@ ringDir: int 1 .. . . . . . ...@ coords : num [1:4, 1:2] 129.2 129.2 129.3 129.2 34.1 ...
... . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . ...@ labpt : num [1:2]
130.3 32.4 .. . . . . . ...@ area : num 0.0131 .. . . . . . ...@ hole : logi FALSE .. . . . . . ...@ ringDir:
int 1 .. . . . . . ...@ coords : num [1:4, 1:2] 130.4 130.2 130.4 130.4 32.4 .. . . . . . $. :Formal class
'Polygon' [package "sp"] with 5 slots .. . . . . . ...@ labpt : num [1:2] 123.8 24.3 .. . . . . .
...@ area : num 0.013 .. . . . . . ...@ hole : logi FALSE .. . . . . . ...@ ringDir: int 1
.. . . . . . ...@ coords : num [1:4, 1:2] 123.9 123.7 123.9 123.9 24.3 .. . . . . . $. :Formal class
'Polygon' [package "sp"] with 5 slots .. . . . . . ...@ labpt : num [1:2] 125.3 24.8 .. . . . . . ...@ area :
num 0.0116 .. . . . . . ...@ hole : logi FALSE .. . . . . . ...@ ringDir: int 1 .. . . . . .
...@ coords : num [1:5, 1:2] 125 125 125 125 125 .. . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . ...@ labpt : num [1:2] 133.3 36.2 .. . . . . . ...@ area : num 0.00993
... . . . . . ...@ hole : logi FALSE .. . . . . . ...@ ringDir: int 1 .. . . . . . ...@ coords : num
[1:4, 1:2] 133.3 133.4 133.3 133.3 36.3 .. . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . ...@ labpt : num [1:2] 134.3 34.5 .. . . . . . ...@ area : num 0.00983 .. . . . .
... . . . . . ...@ hole : logi FALSE .. . . . . . ...@ ringDir: int 1 .. . . . . . ...@ coords : num [1:4, 1:2]
134.4 134.2 134.4 134.4 34.4 .. . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots .. .
... . . . . . ...@ labpt : num [1:2] 129 27.8 .. . . . . . ...@ area : num 0.00932 .. . . . . . ...@ hole :
logi FALSE .. . . . . . ...@ ringDir: int 1 .. . . . . . ...@ coords : num [1:4, 1:2] 129 128.9 129
129 27.7 .. . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . ...@ labpt :
num [1:2] 139.5 42.2 .. . . . . . ...@ area : num 0.00903 .. . . . . . ...@ hole : logi FALSE .. . .
... . . . . . ...@ ringDir: int 1 .. . . . . . ...@ coords : num [1:4, 1:2] 139.6 139.4 139.4 139.6 42.2 ...
... . . . . . $. :Formal class 'Polygon' [package "sp"] with 5 slots .. . . . . . ...@ labpt : num [1:2]
141.2 45.2 .. . . . . . ...@ area : num 0.0085 .. . . . . . ...@ hole : logi FALSE .. . . . . . ...@ ringDir:
int 1 .. . . . . . ...@ coords : num [1:4, 1:2] 141.3 141.1 141.3 141.3 45.1 .. . . . . . $. :Formal class
'Polygon' [package "sp"] with 5 slots .. . . . . . ...@ labpt : num [1:2] 141 45.4 .. . . . . .
... . . . . . ...@ area : num 0.00832 .. . . . . . ...@ hole : logi FALSE .. . . . . . ...@ ringDir:
int 1 .. . . . . . ...@ coords : num [1:4, 1:2] 141 141 141.1 141 45.3 .. . . . . . $. :Formal class
'Polygon' [package "sp"] with 5 slots .. . . . . . ...@ labpt : num [1:2] 129.5 33.3 .. . . . . . ...@ area :
num 0.00752 .. . . . . . ...@ hole : logi FALSE .. . . . . . ...@ ringDir: int 1 .. . . . . .
... . . . . . ...@ coords : num [1:4, 1:2] 129.4 129.5 129.6 129.4 33.2 .. . . . . . $. :Formal class 'Polygon'
[package "sp"] with 5 slots .. . . . . . ...@ labpt : num [1:2] 132.4 34.2 .. . . . . . ...@ area : num
0.0073 .. . . . . . ...@ hole : logi FALSE .. . . . . . ...@ ringDir: int 1 .. . . . . . ...@ coords :
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num [1:4, 1:2] 132.4 132.4 132.5 132.4 34.1 ... ... ... ...$ :Formal class 'Polygon' [package "sp"]
with 5 slots ... ... ... ... ...@ labpt : num [1:2] 128.6 27.4 ... ... ... ... ...@ area : num 0.00626 ...
... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2]
128.6 128.5 128.7 128.6 27.4 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 129.7 33.8 ... ... ... ... ...@ area : num 0.00575 ... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 129.8
129.7 129.7 129.8 33.7 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 132.5 34.1 ... ... ... ... ...@ area : num 0.00574 ... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:5, 1:2] 133 133 132
133 133 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 129.2 28.1 ...
... ... ... ... ...@ area : num 0.005 ... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 129.3 129.2 129.2 129.3 28.1 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 129.7 31.7 ...
... ... ... ... ...@ area : num 0.00489 ... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 129.7 129.7 129.8 129.7 31.6 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 139.8 33.1 ...
... ... ... ... ...@ area : num 0.00443 ... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] 140 140 140 140 33 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 137 37.1 ...
... ... ... ... ...@ area : num 0.00394 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] 137.1 137 136.9 137.1 37.1 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 139.4 34.7 ...
... ... ... ... ...@ area : num 0.00373 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] 139.5 139.4 139.4 139.5 34.7 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 133 36.1 ...
... ... ... ... ...@ area : num 0.00364 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] 130 129.9 130 130 28.3 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 133 34.2 ...
... ... ... ... ...@ area : num 0.00348 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] 133 133 133.1 133 34.2 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 126.7 26.3 ...
... ... ... ... ...@ area : num 0.00347 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] 126.8 126.8 126.7 126.8 26.4 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 130.2 32.2 ...
... ... ... ... ...@ area : num 0.00344 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] 130.2 130.1 130.2 130.2 32.1 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 145.3 43.6 ...
... ... ... ... ...@ area : num 0.00284 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2]
145.3 145.2 145.4 145.3 43.5 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 132.3 33.9 ...
... ... ... ... ...@ area : num 0.00279 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] 132.3
132.2 132.5 132.3 33.9 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 129 33 ...
... ... ... ... ...@ area : num 0.00236 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] 129 129 129 129
33 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 139.5 34.1 ...
... ... ... ... ...@ area : num 0.00226 ...
... ... ... ... ...@ hole : logi FALSE ...

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... ... ..@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 140 139 140 140 34 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 139.3 34.4 ... ... ... ... ...@ area : num 0.00175 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 139.3 139.2 139.3 139.3 34.3 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 133.1 36.1 ... ... ... ... ...@ area : num 0.00167 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 133 133 133 133 36 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 142.2 27.1 ... ... ... ... ...@ area : num 0.00153 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 142 142 142 142 27 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 129.9 29.8 ... ... ... ... ...@ area : num 0.00149 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 129.9 129.9 129.9 129.9 29.9 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 129.8 33.4 ... ... ... ... ...@ area : num 0.00113 ... ... ... ... ...@ hole : logi TRUE ... ... ... ... ...@ ringDir: int -1 ... ... ... ... ...@ coords : num [1:4, 1:2] 129.8 129.9 129.8 129.8 33.3 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 141.3 24.8 ... ... ... ... ...@ area : num 0.00111 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 141.3 141.3 141.4 141.3 24.7 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 132.2 33.8 ... ... ... ... ...@ area : num 0.00108 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 132.3 132.2 132.2 132.3 33.8 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 131.2 25.8 ... ... ... ... ...@ area : num 0.00105 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 131.2 131.2 131.3 131.2 25.8 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 142.1 26.7 ... ... ... ... ...@ area : num 0.001 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 142.2 142.1 142.2 142.2 26.6 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 123 24.5 ... ... ... ... ...@ area : num 0.000985 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 123 122.9 123 123 24.4 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 139.6 33.9 ... ... ... ... ...@ area : num 0.00089 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 139.6 139.6 139.6 139.6 33.8 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 129.7 29.6 ... ... ... ... ...@ area : num 0.000879 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 129.7 129.7 129.7 129.7 29.6 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 143.9 44.2 ... ... ... ... ...@ area : num 0.000718 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 144 143.9 143.8 144 44.1 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 133 36 ... ... ... ... ...@ area : num 0.000551 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 133 133 133 133 36 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 130 30 ... ... ... ... ...@ area : num 0.000464 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 130 130 130 130 30 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 141.3 25.4 ... ... ... ... ...@ area : num 0.000418 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 141.3 141.3 141.3 141.3 25.4 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 131.3 24.5 ... ... ...

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... ... ..@ area : num 0.000359 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] 131.3 131.2 131.3 131.3 24.5 ... ... ... ... ...$ :Formal class
'Polygon' [package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 142.2 27.2 ... ... ... ... ...@ area : num 0.000342 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ...
... ...@ coords : num [1:4, 1:2] 142.2 142.2 142.2 142.2 27.1 ... ... ... ... ...$ :Formal class 'Polygon'
[package "sp"] with 5 slots ... ... ... ... ...@ labpt : num [1:2] 154 24.3 ... ... ... ... ...@ area : num
0.000232 ... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords
: num [1:4, 1:2] 154 153.9 154 154 24.3 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with
5 slots ... ... ... ... ...@ labpt : num [1:2] 140.3 30.5 ... ... ... ... ...@ area : num 0.00022 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2]
140.3 140.3 140.3 140.3 30.5 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 142.2 27.6 ... ... ... ... ...@ area : num 0.000209 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 142.2
142.2 142.2 142.2 27.6 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 140.9 27.2 ... ... ... ... ...@ area : num 0.000138 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 140.9 140.9
140.9 140.9 27.2 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 142.1 27.7 ... ... ... ... ...@ area : num 0.000137 ...
... ... ... ... ...@ hole : logi FALSE ... ... ... ... ...@ ringDir: int 1 ... ... ... ... ...@ coords : num [1:4, 1:2] 142.1 142.1 142.1
142.1 27.7 ... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 140 31.9 ... ... ... ... ...@ area : num 0.000103 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] 140 140 140 140 31.9 ...
... ... ... ... ...@ plotOrder: int [1:67] 1 2 3 4 5 6 7 8 9 10 ...
... ... ... ... ...@ labpt : num [1:2] 138 36.6 ...
... ... ... ... ...@ ID : chr "JPN" ...
... ... ... ... ...@ area : num 38.7 ...
... ... ... ... ...$ :Formal class 'Polygons' [package "sp"] with 5 slots ...
... ... ... ... ...@ Polygons :List of 1 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] -77.3 18.1 ...
... ... ... ... ...@ area : num 0.753 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:6, 1:2] -77.1 -77.7 -78.3
-76.9 -76.2 ...
... ... ... ... ...@ plotOrder: int 1 ...
... ... ... ... ...@ labpt : num [1:2] -77.3 18.1 ...
... ... ... ... ...@ ID : chr "JAM" ...
... ... ... ... ...@ area : num 0.753 ...
... ... ... ... ...$ :Formal class 'Polygons' [package "sp"] with 5 slots ...
... ... ... ... ...@ Polygons :List of 1 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 36.8 31.2 ...
... ... ... ... ...@ area : num 8.33 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:14, 1:2] 35 35 35.5 35.6 35.6 ...
... ... ... ... ...@ plotOrder: int 1 ...
... ... ... ... ...@ labpt : num [1:2] 36.8 31.2 ...
... ... ... ... ...@ ID : chr "JOR" ...
... ... ... ... ...@ area : num 8.33 ...
... ... ... ... ...$ :Formal class 'Polygons' [package "sp"] with 5 slots ...
... ... ... ... ...@ Polygons :List of 2 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 37.824 0.539 ...
... ... ... ... ...@ area : num 47 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:26, 1:2] 35.9 37 38.1 39.5 40.8 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 41.05 -2.11 ...
... ... ... ... ...@ area : num 0.00936 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:4, 1:2] 41.14 40.95 41.06 41.14 -2.12 ...
... ... ... ... ...@ plotOrder: int [1:2] 1 2 ...
... ... ... ... ...@ labpt : num [1:2] 37.824 0.539 ...
... ... ... ... ...@ ID : chr "KEN" ...
... ... ... ... ...@ area : num 47 ...
... ... ... ... ...$ :Formal class 'Polygons' [package "sp"] with 5 slots ...
... ... ... ... ...@ Polygons :List of 1 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 74.6 41.4 ...
... ... ... ... ...@ area : num 21 ...
... ... ... ... ...@ hole : logi FALSE ...
... ... ... ... ...@ ringDir: int 1 ...
... ... ... ... ...@ coords : num [1:32, 1:2] 80.2 78.1 76.9 76.3 75.7 ...
... ... ... ... ...@ plotOrder: int 1 ...
... ... ... ... ...@ labpt : num [1:2] 74.6 41.4 ...
... ... ... ... ...@ ID : chr "KGZ" ...
... ... ... ... ...@ area : num 21 ...
... ... ... ... ...$ :Formal class 'Polygons' [package "sp"] with 5 slots ...
... ... ... ... ...@ Polygons :List of 2 ...
... ... ... ... ...$ :Formal class 'Polygon' [package "sp"] with 5 slots ...
... ... ... ... ...@ labpt : num [1:2] 127.2 40.2 ...

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... . . . . . . .@ area : num 12.8 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 ..
... . . . . . . .@ coords : num [1:34, 1:2] 131 131 130 130 128 . . . . . . .$. :Formal class 'Polygon'
[package "sp"] with 5 slots . . . . . . .@ labpt : num [1:2] 124.9 39.6 . . . . . . .@ area : num 0.00238 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . . . . . .@ coords : num [1:4, 1:2] 124.8 124.9 124.9 124.8 39.5 . . . . . . .@ plotOrder: int [1:2] 1 2 . . .
.. @ labpt : num [1:2] 127.2 40.2 . . . . . .@ ID : chr "PRK" . . . . . .@ area : num 12.8 . . . $. :Formal
class 'Polygons' [package "sp"] with 5 slots . . . . . .@ Polygons :List of 42 . . . . . .$. :Formal
class 'Polygon' [package "sp"] with 5 slots . . . . . . .@ labpt : num [1:2] -157.39 1.86 . . . .
.. . . . . . .@ area : num 0.0419 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . .
.. . . . . . .@ coords : num [1:4, 1:2] -157.43 -157.18 -157.57 -157.43 2.02 . . . . . .$. :Formal
class 'Polygon' [package "sp"] with 5 slots . . . . . . .@ labpt : num [1:2] 173.029 0.927 . . .
.. . . . . . .@ area : num 0.00687 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 .
.. . . . . . .@ coords : num [1:4, 1:2] 173.02 173.08 172.98 173.02 1.01 . . . . . .$. :Formal
class 'Polygon' [package "sp"] with 5 slots . . . . . . .@ labpt : num [1:2] 172.99 1.82 . . .
.. . . . . . .@ area : num 0.00629 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 .
.. . . . . . .@ coords : num [1:4, 1:2] 173.01 172.93 173.03 173.01 1.71 . . . . . .$. :Formal
class 'Polygon' [package "sp"] with 5 slots . . . . . . .@ labpt : num [1:2] -159.34 3.86 . . .
.. . . . . . .@ area : num 0.00616 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 .
.. . . . . . .@ coords : num [1:4, 1:2] -159.34 -159.27 -159.4 -159.34 3.92 . . . . . .$. :Formal
class 'Polygon' [package "sp"] with 5 slots . . . . . . .@ labpt : num [1:2] 175.03 -1.51 . . .
.. . . . . . .@ area : num 0.00242 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 .
.. . . . . . .@ coords : num [1:4, 1:2] 175.04 175 175.05 175.04 -1.55 . . . . . .$. :Formal
class 'Polygon' [package "sp"] with 5 slots . . . . . . .@ labpt : num [1:2] -154.97 -4.07 . . .
.. . . . . . .@ area : num 0.00206 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . .
.. . . . . . .@ coords : num [1:4, 1:2] -154.94 -154.96 -155.02 -154.94 -4.05 . . . . . .$. :Formal
class 'Polygon' [package "sp"] with 5 slots . . . . . . .@ labpt : num [1:2] 175.97 -1.32 . . .
.. . . . . . .@ area : num 0.00187 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . .
.. . . . . . .@ coords : num [1:4, 1:2] 175.95 176.02 175.93 175.95 -1.28 . . . . . .$. :Formal
class 'Polygon' [package "sp"] with 5 slots . . . . . . .@ labpt : num [1:2] 172.8 3.03 . . .
.. . . . . . .@ area : num 0.00185 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . .
.. . . . . . .@ coords : num [1:4, 1:2] 172.87 172.77 172.75 172.87 3.06 . . . . . .$. :Formal
class 'Polygon' [package "sp"] with 5 slots . . . . . . .@ labpt : num [1:2] -171.66 -2.82 . . .
.. . . . . . .@ area : num 0.00176 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . .
.. . . . . . .@ coords : num [1:4, 1:2] -171.63 -171.63 -171.73 -171.63 -2.83 . . . . . .$. :Formal
class 'Polygon' [package "sp"] with 5 slots . . . . . . .@ labpt : num [1:2] 173.85 0.42 . . .
.. . . . . . .@ area : num 0.00166 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . .
.. . . . . . .@ coords : num [1:4, 1:2] 173.831 173.922 173.805 173.831 0.448 . . . . . .$. :Formal
class 'Polygon' [package "sp"] with 5 slots . . . . . . .@ labpt : num [1:2] 174.481 -0.747 . . .
.. . . . . . .@ area : num 0.00123 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . .
.. . . . . . .@ coords : num [1:4, 1:2] 174.49 174.458 174.496 174.49 -0.817 . . . . . .$. :Formal
class 'Polygon' [package "sp"] with 5 slots . . . . . . .@ labpt : num [1:2] 174.8 -1.2 . . .
.. . . . . . .@ area : num 0.00122 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . .
.. . . . . . .@ coords : num [1:4, 1:2] 174.77 174.72 174.77 174.77 -1.26 . . . . . .$. :Formal
class 'Polygon' [package "sp"] with 5 slots . . . . . . .@ labpt : num [1:2] 173.618 0.188 . . .
.. . . . . . .@ area : num 0.00111 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . .
.. . . . . . .@ coords : num [1:4, 1:2] 173.618 173.604 173.632 173.618 0.134 . . . . . .$. :Formal
class 'Polygon' [package "sp"] with 5 slots . . . . . . .@ labpt : num [1:2] 175.58 -1.87 . . .
.. . . . . . .@ area : num 0.00102 . . . . . . .@ hole : logi FALSE . . . . . . .@ ringDir: int 1 . . .

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... . . . .@ coords : num [1:4, 1:2] 175.59 175.55 175.59 175.59 -1.92 ... . . . . .$. :Formal class
'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 176.82 -2.64 ... . . . . .
.. @ area : num 0.000856 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... .
... . . . .@ coords : num [1:4, 1:2] 176.85 176.77 176.83 176.85 -2.67 ... . . . . $. :Formal class
'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 176.43 -1.37 ... . . . .
.. @ area : num 0.000822 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... .
... . . . .@ coords : num [1:4, 1:2] 176.46 176.39 176.42 176.46 -1.44 ... . . . . $. :Formal class
'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] -172.21 -4.51 ... . . . .
.. @ area : num 0.000751 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... .
... . . . .@ coords : num [1:4, 1:2] -172.19 -172.23 -172.2 -172.19 -4.53 ... . . . . $. :Formal class
'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] -155.89 -5.63 ... . . . .
.. @ area : num 0.000745 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... .
... . . . .@ coords : num [1:4, 1:2] -155.88 -155.93 -155.86 -155.88 -5.64 ... . . . . $. :Formal class
'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] -151.8 -11.4 ... . . . .
.. @ area : num 0.000645 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... .
... . . . .@ coords : num [1:4, 1:2] -151.8 -151.8 -151.8 -151.8 -11.5 ... . . . . $. :Formal class
'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 172.97 1.57 ... . . . .
.. @ area : num 0.000629 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... .
... . . . .@ coords : num [1:4, 1:2] 172.98 172.96 172.96 172.98 1.53 ... . . . . $. :Formal class
'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 173.33 1.99 ... . . . .
.. @ area : num 0.000565 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... .
... . . . .@ coords : num [1:4, 1:2] 173.34 173.31 173.33 173.34 1.98 ... . . . . $. :Formal class
'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 174.41 -0.615 ... . . . .
.. @ area : num 0.000528 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ... .
... . . . .@ coords : num [1:4, 1:2] 174.459 174.377 174.392 174.459 -0.652 ... . . . . $. :Formal class
'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] -160.39 4.71 ... . . . .
.. @ area : num 0.000476 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...
... . . . .@ coords : num [1:4, 1:2] -160.39 -160.41 -160.38 -160.39 4.69 ... . . . . $. :Formal class
'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 173.33 1.95 ... . . . .
.. @ area : num 0.00041 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...
... . . . .@ coords : num [1:4, 1:2] 173.33 173.31 173.35 173.33 1.94 ... . . . . $. :Formal class
'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 172.97 3.28 ... . . . .
.. @ area : num 0.000395 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...
... . . . .@ coords : num [1:4, 1:2] 172.97 172.96 172.98 172.97 3.25 ... . . . . $. :Formal class
'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] -171.24 -4.45 ... . . . .
.. @ area : num 0.000354 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...
... . . . .@ coords : num [1:4, 1:2] -171.23 -171.26 -171.24 -171.23 -4.46 ... . . . . $. :Formal class
'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 173.11 1.36 ... . . . .
.. @ area : num 0.000331 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...
... . . . .@ coords : num [1:4, 1:2] 173.13 173.1 173.12 173.13 1.35 ... . . . . $. :Formal class
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.. @ area : num 0.000324 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...
... . . . .@ coords : num [1:4, 1:2] 175.53 175.49 175.52 175.53 -1.81 ... . . . . $. :Formal class
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.. @ area : num 0.000281 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...
... . . . .@ coords : num [1:4, 1:2] 173.06 173.04 173.03 173.06 1.41 ... . . . . $. :Formal class
'Polygon' [package "sp"] with 5 slots ... . . . . .@ labpt : num [1:2] 173.412 0.217 ... . . . .
.. @ area : num 0.000277 ... . . . . .@ hole : logi FALSE ... . . . . .@ ringDir: int 1 ...

```

```

... . . . . .@ coords : num [1:4, 1:2] 173.41 173.402 173.426 173.41 0.204 ... . . . . .$. :Formal
class 'Polygon' [package "sp"] with 5 slots ... . . . . . .@ labpt : num [1:2] 172.86 1.85 ... . . .
... . . . . .@ area : num 0.000252 ... . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 ...
... . . . . .@ coords : num [1:4, 1:2] 172.88 172.83 172.86 172.88 1.84 ... . . . . .$. :Formal class
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... . . . . .@ area : num 0.000174 ... . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 ...
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... . . . . .@ area : num 0.000144 ... . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 ...
... . . . . .@ coords : num [1:4, 1:2] 172.94 172.91 172.94 172.94 1.34 ... . . . . .$. :Formal
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... . . . . .@ area : num 0.000142 ... . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 ...
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... . . . . .@ coords : num [1:4, 1:2] 173.932 173.924 173.939 173.932 0.298 ...
... . . . . .@ labpt : num [1:2] -150.2 -9.9 ... . . . .
... . . . . .@ area : num 0.000102 ... . . . . . .@ hole : logi FALSE ... . . . . . .@ ringDir: int 1 ...
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... . . . . .$. :Formal class

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```

## Details

see maptools package

## Source

maptools package

## References

maptools package

**Examples**

```
data(world_country_polygons)
str(world_country_polygons)
```

**zplot***Plotting for 3 dimensional data***Description**

Plots z above xy plane as 3D mountain or 2D contourlines

**Usage**

```
zplot(x, y, z, DrawTopView = TRUE, NrOfContourLines = 20,
      TwoDplotter = "native", xlim, ylim)
```

**Arguments**

x	Vector of x-coordinates of the data. If y and z are missing: Matrix containing 3 rows, one for each coordinate
y	Vector of y-coordinates of the data.
z	Vector of z-coordinates of the data.
DrawTopView	Optional: Boolean, if true plot contours otherwise a 3D plot. Default: True
NrOfContourLines	Optional: Numeric. Only used when DrawTopView == True. Number of lines to be drawn in 2D contour plots. Default: 20
TwoDplotter	Optional: String indicating which backend to use for plotting. Possible Values: 'ggplot', 'native', 'plotly'
xlim	
ylim	

**Value**

If the plotting backend does support it, this will return a handle for the generated plot.

**Author(s)**

Felix pape

**Examples**

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