Package 'zooaRchGUI'

June 15, 2017

Type Package

Title Interactive Analytical Tools for Zooarchaeological Data

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Author Erik Otarola-Castillo, Jesse Wolfhagen, John Brian Rapes, and Max D. Price

Maintainer Erik Otarola-Castillo <eoc@purdue.edu>

Description The analysis and inference of faunal remains recovered from
archaeological sites concerns the field of zooarchaeology. The zooaRchGUI package
provides a graphical user interface to analytical tools found in the R statistical environment
to make inferences on zooarchaeological data. Functions in this package allow users to interactively
read, manipulate, visualize, and analyze zooarchaeological data.

Imports car, coda, foreign, geomorph, ggplot2, graphics, grDevices,
MASS, pgirmess, raster, readxl, rjags, sp, spdep, splancs,
stats, tcltk, tcltk2, tkrplot, utils, vegan

License GPL (>= 2)

LazyData true

Suggests rmarkdown, knitr

URL http://www.zooarchgui.org/,
https://zooarchgui.github.io/zooaRchGUI/

BugReports https://github.com/zooaRchGUI/zooaRchGUI/issues

RoxygenNote 6.0.1

NeedsCompilation no

Repository CRAN

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R **topics documented:**

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zooaRchGUI-package   *Analytical Tools for Zooarchaeological Data*

Description

Functions in this package allow users to interactively read, manage, analyze and visualize zooarchaeological data - the faunal remains recovered from archaeological sites.

Author(s)

Erik Otarola-Castillo, Jesse Wolfhagen, John Brian Rapes and Max D. Price

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ClarksonLimbLoc   *Clarkson data for chi squared*

Description

Clarkson data for chi squared

Author(s)

Erik Otarola-Castillo

References

Otarola-Castillo, Erik 2010 Differences between NISP and MNE in Cutmark Analysis of Highly Fragmented Faunal Assemblages. Journal of Archaeological Science 37:1-12.

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clusterPTS	*Clustered Spatial Points Example for spatial statistics and autocorrelation example*

Description

Clustered Spatial Points Example for spatial statistics and autocorrelation example

Author(s)

Erik Otarola-Castillo

LRBdata	*Forager databse from Binford 2001, Constructing Frames of Reference*

Description

Forager databse from Binford 2001, Constructing Frames of Reference

Author(s)

Binford, Lewis R.

References

Binford, Lewis R. 2001. Constructing Frames of Reference: An Analytical Method for Archaeological Theory Building Using Ethnographic and Environmental Data Sets. Berkeley: University of California Press.

Available from http://ajohnson.sites.truman.edu/data-and-program/

| LRBkey | *Data frame describing the variables in the LRB data frame. Part of the datasets used to calculate Binford's environmental and hunter-gatherer frames of reference variables* |

Description

Data frame describing the variables in the LRB data frame. Part of the datasets used to calculate Binford's environmental and hunter-gatherer frames of reference variables

Author(s)

Binford, Lewis R.

References

Binford, Lewis R. 2001. Constructing Frames of Reference: An Analytical Method for Archaeological Theory Building Using Ethnographic and Environmental Data Sets. Berkeley: University of California Press.

Available from http://ajohnson.sites.truman.edu/data-and-program/

| marjRab | *Survival data from Marj Rabba, using Payne's (1973) age classes* |

Description

Survival data from Marj Rabba, using Payne's (1973) age classes

Author(s)

M.D. Price, M. Buckley, Y.M. Rowan, and M. Kersel

References

Payne, S. 1973 Kill - off Patterns in Sheep and Goats: The Mandibles from Asvan Kale. Anatolian Studies 23:281 - 303.

Price, M.D., Buckley, M., Rowan, Y.M., Kersel, M., 2013. Animal Management Strategies during the Chalcolithic in the Lower Galilee: New Data from Marj Rabba, Paleorient 39, 183 - 200.

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marjRab.fuse   *Fusion Survival data from Marj Rabba*

Description

Fusion Survival data from Marj Rabba

Author(s)

M.D. Price, M. Buckley, Y.M. Rowan, and M. Kersel

References

Price, M.D., Buckley, M., Rowan, Y.M., Kersel, M., 2013. Animal Management Strategies during the Chalcolithic in the Lower Galilee: New Data from Marj Rabba, Paleorient 39, 183 - 200.

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marjRlabels   *Survival data labels from Marj Rabba, using Payne's (1973) age classes*

Description

Survival data labels from Marj Rabba, using Payne's (1973) age classes

Author(s)

M.D. Price, M. Buckley, Y.M. Rowan, and M. Kersel

References

Payne, S. 1973 Kill - off Patterns in Sheep and Goats: The Mandibles from Asvan Kale. Anatolian Studies 23:281 - 303.

Price, M.D., Buckley, M., Rowan, Y.M., Kersel, M., 2013. Animal Management Strategies during the Chalcolithic in the Lower Galilee: New Data from Marj Rabba, Paleorient 39, 183 - 200.

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myData	*Simulated Site x Species data*

Description

Simulated Site x Species data

Author(s)

eoc

References

eoc

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randPTS	*Random Spatial Points Example for spatial statistics and autocorrelation example*

Description

Random Spatial Points Example for spatial statistics and autocorrelation example

Author(s)

Erik Otarola-Castillo

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spatPOLY	*Spatial Polygon Example*

Description

Spatial Polygon Example

Author(s)

Erik Otarola-Castillo

speth83 *Bison survival data from Speth 1983*

Description

Bison survival data from Speth 1983

Author(s)

John D. Speth

References

Speth, J. D. 1983 Bison Kills and Bone Counts: Decision Making by Ancient Hunters. University of Chicago Press, London.

speth83labels *Bison survival labels from Speth 1983*

Description

Bison survival labels from Speth 1983

Author(s)

John D. Speth

References

Speth, J. D. 1983 Bison Kills and Bone Counts: Decision Making by Ancient Hunters. University of Chicago Press, London.

standards *Standards for values*

Description

Standards for values

Author(s)

EOC, MP, JW

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syraPoly	*Syracuse Polygon Data*

Description

Syracuse Polygon Data

Author(s)

Erik Otarola-Castillo

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winslow.fuse	*Fusion Survival data for cattle remains from the Winslow site, a colonial period farm near Boston, MA.*

Description

Fusion Survival data for cattle remains from the Winslow site, a colonial period farm near Boston, MA.

Author(s)

D. Landon

References

Landon, David B. 1993 Feeding Colonial Boston: A Zooarchaeological Study. Historical Archaeology 30:i-vii, 1-153

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zooaRch_GUI	*zooaRchGUI*

Description

zooaRchGUI

Usage

```
zooaRch_GUI()
```

Examples

```
# Example 1: Binford data

 data(LRBdata)
 head(LRBdata)
```

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