

Package ‘jstable’

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Title Create Tables from Different Types of Regression

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Description Create regression tables from generalized linear model(GLM), generalized estimating equation(GEE), generalized linear mixed-effects model(GLMM), Cox proportional hazards model, survey-weighted generalized linear model(svyglm) and survey-weighted Cox model results for publication.

Depends R (>= 3.4.0)

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LazyData true

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Imports geepack, lme4, stats, data.table, labelled, tableone, coxme, survival (>= 3.0.0), survey, methods, dplyr, purrr, magrittr, tibble, car

URL <https://github.com/jinseob2kim/jstable>

BugReports <https://github.com/jinseob2kim/jstable/issues>

Suggests testthat, knitr, rmarkdown

VignetteBuilder knitr

NeedsCompilation no

Author Jinseob Kim [aut, cre] (<<https://orcid.org/0000-0002-9403-605X>>), Zarathu [cph, fnd]

Maintainer Jinseob Kim <jinseob2kim@gmail.com>

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coefNA

coefNA: make coefficient table with NA

Description

Make coefficient table with NA

Usage

```
coefNA(model)
```

Arguments

model glm object (gaussian or binomial)

Details

DETAILS

Value

coefficient table with NA

Examples

```
coefNA(glm(mpg ~ wt + qsec, data = mtcars))
```

cox2.display

cox2.display: table for coxph.object with model option: TRUE - allow "frailty" or "cluster" model

Description

Table for coxph.object with model option: TRUE - allow "frailty" or "cluster" model

Usage

```
cox2.display(cox.obj.withmodel, dec = 2)
```

Arguments

cox.obj.withmodel
 coxph.object with model option: TRUE
dec Decimal point, Default: 2

Details

GEE like - cluster, Mixed effect model like - frailty

Value

Table, cluster/frailty info, metrics, caption

Examples

```
library(survival);data(lung)
fit1 <- coxph(Surv(time, status) ~ ph.ecog + age + cluster(inst), data = lung, model = TRUE)
fit2 <- coxph(Surv(time, status) ~ ph.ecog + age + frailty(inst), data = lung, model = TRUE)
cox2.display(fit1)
cox2.display(fit2)
```

coxExp

coxExp: transform the unit of coefficients in cox model(internal function)

Description

Transform the unit of coefficients to "HR"

Usage

```
coxExp(cox.coef, dec)
```

Arguments

cox.coef	cox model coefficients
dec	Decimal point

Details

DETAILS

Value

The transformed coefficients(95

Examples

```
library(coxme)
fit <- coxme(Surv(time, status) ~ ph.ecog + age + (1|inst), lung)
jstable:::coxExp(jstable:::coxmeTable(fit))
```

`coxme.display`

coxme.display: table for coxme.object (coxme package)

Description

Make mixed effect model results from coxme.object (coxme package)

Usage

```
coxme.display(coxme.obj, dec = 2)
```

Arguments

coxme.obj	coxme.object
dec	Decimal point, Default: 2

Details

DETAILS

Value

Fixed effect table, random effect, metrics, caption

Examples

```
library(coxme)
fit <- coxme(Surv(time, status) ~ ph.ecog + age + (1|inst), lung)
coxme.display(fit)
```

`coxmeTable`

coxmeTable: Summary table of coxme.object(internal function)

Description

Extract fixed effect table in coxme.object

Usage

```
coxmeTable(mod)
```

Arguments

mod	coxme.object
-----	--------------

Details**DETAILS****Value**

beta, se, z, p of fixed effects

Examples

```
library(coxme)
fit <- coxme(Surv(time, status) ~ ph.ecog + age + (1|inst), lung)
jstable:::coxmeTable(fit)
```

CreateTableOne2

CreateTableOne2: Modified CreateTableOne function in tableone package

Description

Combine CreateTableOne & print function in tableone package

Usage

```
CreateTableOne2(
  data,
  strata,
  vars,
  factorVars,
  includeNA = F,
  test = T,
  testApprox = chisq.test,
  argsApprox = list(correct = TRUE),
  testExact = fisher.test,
  argsExact = list(workspace = 2 * 10^5),
  testNormal = oneway.test,
  argsNormal = list(var.equal = F),
  testNonNormal = kruskal.test,
  argsNonNormal = list(NULL),
  showAllLevels = T,
  printToggle = F,
  quote = F,
  smd = F,
  Labels = F,
  exact = NULL,
  nonnormal = NULL,
  catDigits = 1,
  contDigits = 2,
```

```

pDigits = 3,
labeldata = NULL,
minMax = F
)

```

Arguments

data	A data frame in which these variables exist. All variables (both vars and strata) must be in this data frame.
strata	Stratifying (grouping) variable name(s) given as a character vector. If omitted, the overall results are returned.
vars	Variables to be summarized given as a character vector. Factors are handled as categorical variables, whereas numeric variables are handled as continuous variables. If empty, all variables in the data frame specified in the data argument are used.
factorVars	Numerically coded variables that should be handled as categorical variables given as a character vector. Do not include factors, unless you need to relevel them by removing empty levels. If omitted, only factors are considered categorical variables. The variables specified here must also be specified in the vars argument.
includeNA	If TRUE, NA is handled as a regular factor level rather than missing. NA is shown as the last factor level in the table. Only effective for categorical variables., Default: F
test	If TRUE, as in the default and there are more than two groups, groupwise comparisons are performed, Default: T
testApprox	A function used to perform the large sample approximation based tests. The default is chisq.test. This is not recommended when some of the cell have small counts like fewer than 5, Default: chisq.test
argsApprox	A named list of arguments passed to the function specified in testApprox. The default is list(correct = TRUE), which turns on the continuity correction for chisq.test, Default: list(correct = TRUE)
testExact	A function used to perform the exact tests. The default is fisher.test. If the cells have large numbers, it will fail because of memory limitation. In this situation, the large sample approximation based should suffice., Default: fisher.test
argsExact	A named list of arguments passed to the function specified in testExact. The default is list(workspace = 2 * 10^5), which specifies the memory space allocated for fisher.test, Default: list(workspace = 2 * 10^5)
testNormal	A function used to perform the normal assumption based tests. The default is oneway.test. This is equivalent of the t-test when there are only two groups, Default: oneway.test
argsNormal	A named list of arguments passed to the function specified in testNormal. The default is list(var.equal = TRUE), which makes it the ordinary ANOVA that assumes equal variance across groups., Default: list(var.equal = F)
testNonNormal	A function used to perform the nonparametric tests. The default is kruskal.test (Kruskal-Wallis Rank Sum Test). This is equivalent of the wilcox.test (Mann-Whitney U test) when there are only two groups, Default: kruskal.test

argsNonNormal	A named list of arguments passed to the function specified in testNonNormal. The default is list(NULL), which is just a placeholder., Default: list(NULL)
showAllLevels	Whether to show all levels. FALSE by default, i.e., for 2-level categorical variables, only the higher level is shown to avoid redundant information., Default: T
printToggle	Whether to print the output. If FALSE, no output is created, and a matrix is invisibly returned., Default: F
quote	Whether to show everything in quotes. The default is FALSE. If TRUE, everything including the row and column names are quoted so that you can copy it to Excel easily, Default: F
smd	If TRUE, as in the default and there are more than two groups, standardized mean differences for all pairwise comparisons are calculated, Default: F
Labels	Use Label, Default: F
exact	A character vector to specify the variables for which the p-values should be those of exact tests. By default all p-values are from large sample approximation tests (chisq.test.), Default: NULL
nonnormal	A character vector to specify the variables for which the p-values should be those of nonparametric tests. By default all p-values are from normal assumption-based tests (oneway.test.), Default: NULL
catDigits	Number of digits to print for proportions., Default: 1
contDigits	Number of digits to print for continuous variables. Default 2.
pDigits	Number of digits to print for p-values (also used for standardized mean differences), Default: 3
labeldata	labeldata to use, Default: NULL
minMax	Whether to use [min,max] instead of [p25,p75] for nonnormal variables. The default is FALSE.

Details

DETAILS

Value

A matrix object containing what you see is also invisibly returned. This can be assinged a name and exported via write.csv.

Examples

```
library(survival)
CreateTableOne2(vars = names(lung), strata = "sex", data = lung)
```

CreateTableOneJS	<i>CreateTableOneJS: Modified CreateTableOne function in tableone package</i>
------------------	---

Description

Combine CreateTableOne & print function in tableone package

Usage

```
CreateTableOneJS(
  vars,
  strata = NULL,
  strata2 = NULL,
  data,
  factorVars = NULL,
  includeNA = F,
  test = T,
  testApprox = chisq.test,
  argsApprox = list(correct = TRUE),
  testExact = fisher.test,
  argsExact = list(workspace = 2 * 10^5),
  testNormal = oneway.test,
  argsNormal = list(var.equal = F),
  testNonNormal = kruskal.test,
  argsNonNormal = list(NULL),
  showAllLevels = T,
  printToggle = F,
  quote = F,
  smd = F,
  Labels = F,
  exact = NULL,
  nonnormal = NULL,
  catDigits = 1,
  contDigits = 2,
  pDigits = 3,
  labeldata = NULL,
  psub = T,
  minMax = F
)
```

Arguments

vars	Variables to be summarized given as a character vector. Factors are handled as categorical variables, whereas numeric variables are handled as continuous variables. If empty, all variables in the data frame specified in the data argument are used.
------	---

strata	Stratifying grouping variable name(s) given as a character vector. If omitted, the overall results are returned.
strata2	Stratifying 2nd grouping variable name(s) given as a character vector. If omitted, the 1 group results are returned.
data	A data frame in which these variables exist. All variables (both vars and strata) must be in this data frame.
factorVars	Numerically coded variables that should be handled as categorical variables given as a character vector. Do not include factors, unless you need to relevel them by removing empty levels. If omitted, only factors are considered categorical variables. The variables specified here must also be specified in the vars argument.
includeNA	If TRUE, NA is handled as a regular factor level rather than missing. NA is shown as the last factor level in the table. Only effective for categorical variables., Default: F
test	If TRUE, as in the default and there are more than two groups, groupwise comparisons are performed, Default: T
testApprox	A function used to perform the large sample approximation based tests. The default is chisq.test. This is not recommended when some of the cell have small counts like fewer than 5, Default: chisq.test
argsApprox	A named list of arguments passed to the function specified in testApprox. The default is list(correct = TRUE), which turns on the continuity correction for chisq.test, Default: list(correct = TRUE)
testExact	A function used to perform the exact tests. The default is fisher.test. If the cells have large numbers, it will fail because of memory limitation. In this situation, the large sample approximation based should suffice., Default: fisher.test
argsExact	A named list of arguments passed to the function specified in testExact. The default is list(workspace = $2 * 10^5$), which specifies the memory space allocated for fisher.test, Default: list(workspace = $2 * 10^5$)
testNormal	A function used to perform the normal assumption based tests. The default is oneway.test. This is equivalent of the t-test when there are only two groups, Default: oneway.test
argsNormal	A named list of arguments passed to the function specified in testNormal. The default is list(var.equal = TRUE), which makes it the ordinary ANOVA that assumes equal variance across groups., Default: list(var.equal = F)
testNonNormal	A function used to perform the nonparametric tests. The default is kruskal.test (Kruskal-Wallis Rank Sum Test). This is equivalent of the wilcox.test (Mann-Whitney U test) when there are only two groups, Default: kruskal.test
argsNonNormal	A named list of arguments passed to the function specified in testNonNormal. The default is list(NULL), which is just a placeholder., Default: list(NULL)
showAllLevels	Whether to show all levels. FALSE by default, i.e., for 2-level categorical variables, only the higher level is shown to avoid redundant information., Default: T
printToggle	Whether to print the output. If FALSE, no output is created, and a matrix is invisibly returned., Default: F

quote	Whether to show everything in quotes. The default is FALSE. If TRUE, everything including the row and column names are quoted so that you can copy it to Excel easily, Default: F
smd	If TRUE, as in the default and there are more than two groups, standardized mean differences for all pairwise comparisons are calculated, Default: F
Labels	Use Label, Default: F
exact	A character vector to specify the variables for which the p-values should be those of exact tests. By default all p-values are from large sample approximation tests (chisq.test),, Default: NULL
nonnormal	A character vector to specify the variables for which the p-values should be those of nonparametric tests. By default all p-values are from normal assumption-based tests (oneway.test),, Default: NULL
catDigits	Number of digits to print for proportions., Default: 1
contDigits	Number of digits to print for continuous variables. Default 2.
pDigits	Number of digits to print for p-values (also used for standardized mean differences), Default: 3
labeldata	labeldata to use, Default: NULL
psub	show sub-group p-values, Default: F
minMax	Whether to use [min,max] instead of [p25,p75] for nonnormal variables. The default is FALSE.

Details

DETAILS

Value

A matrix object containing what you see is also invisibly returned. This can be assinged a name and exported via write.csv.

Examples

```
library(survival)
CreateTableOneJS(vars = names(lung), strata = "sex", data = lung)
```

extractAIC.coxme

extractAIC.coxme: Extract AIC from coxme.object

Description

Extract AIC from coxme.object

Usage

```
## S3 method for class 'coxme'
extractAIC(fit, scale = NULL, k = 2, ...)
```

Arguments

<code>fit</code>	<code>coxme.object</code>
<code>scale</code>	<code>NULL</code>
<code>k</code>	numeric specifying the 'weight' of the equivalent degrees of freedom (=: edf) part in the AIC formula.
<code>...</code>	further arguments (currently unused in base R).

Details

DETAILS

Value`AIC(Integreted, Penalized)`**Examples**

```
library(coxme)
fit <- coxme(Surv(time, status) ~ ph.ecog + age + (1|inst), lung)
extractAIC(fit)
```

geeExp

*geeExp: transform the unit of coefficients (internal function)***Description**

Transform the unit of coefficients to "Coeff", "OR" or "RR"

Usage`geeExp(gee.coef, family = "binomial", dec)`**Arguments**

<code>gee.coef</code>	geeUni object.
<code>family</code>	Family: "gaussian", "binomial", "poisson", "quasipoisson", etc..., Default: 'binomial'
<code>dec</code>	Decimal point

Details

DETAILS

Value

The transforemed coefficients(95

Examples

```
library(geepack)
data(dietox)
dietox$Cu <- as.factor(dietox$Cu)
gee.uni <- geeUni("Weight", c("Time", "Cu"), data = dietox, id.vec = dietox$Pig,
                   family = "gaussian", cor.type = "exchangeable")
gee.exp <- geeExp(gee.uni, "binomial", 2)
```

geeglm.display

geeglm.display

Description

Make gee results from "geeglm" object

Usage

```
geeglm.display(geeglm.obj, decimal = 2)
```

Arguments

geeglm.obj	"geeglm" object
decimal	Decimal, Default: 2

Details

DETAILS

Value

List: caption, main table, metrics table

See Also

[data.table-package](#) [complete.cases](#)

Examples

```
library(geepack)
data(dietox)
dietox$Cu <- as.factor(dietox$Cu)
gee01 <- geeglm (Weight ~ Time + Cu , id =Pig, data = dietox,
                  family=gaussian,corstr="ex")
geeglm.display(gee01)
```

geeUni*geeUni: The coefficient of univariate gee (internal function)***Description**

Extract the coefficients of univariate gee using geeglm function (geepack package).

Usage

```
geeUni(y, x, data, id.vec, family, cor.type = "exchangeable")
```

Arguments

y	Dependant variable
x	Independent variable
data	Data
id.vec	Vector of id (should be ordered)
family	Family: "gaussian", "binomial", "poisson", "quasipoisson", etc...
cor.type	Correlation structure, Default: 'exchangeable'

Details**DETAILS****Value**

coefficient, standard error, p-value

Examples

```
library(geepack)
data(dietox)
dietox$Cu <- as.factor(dietox$Cu)
gee.uni <- geeUni("Weight", "Time", data = dietox, id.vec = dietox$Pig,
                  family = "gaussian", cor.type = "exchangeable")
```

glmshow.display *glmshow.display: Show summary table of glm object.*

Description

Show summary table of glm object(regression, logistic).

Usage

```
glmshow.display(glm.object, decimal = 2)
```

Arguments

glm.object	glm.object
decimal	digits, Default: 2

Details

DETAILS

Value

table

See Also

[glm](#)

Examples

```
glmshow.display(glm(mpg ~ wt + qsec, data = mtcars))
```

LabelepiDisplay *LabelepiDisplay: Apply label information to epiDisplay object using label data*

Description

Apply label information to epiDisplay.object using label data

Usage

```
LabelepiDisplay(epiDisplay.obj, label = F, ref)
```

Arguments

- epiDisplay.obj epiDisplay.object or glmshow.object
- label Apply label information, Default: F
- ref Label data made by mk.lev function

Details

DETAILS

Value

epiDisplay.object with label information

Examples

```
fit <- glm(Sepal.Length ~ Sepal.Width + Species, data = iris)
fit.table <- glmshow.display(fit)
iris.label <- mk.lev(iris)
LabeljsCox(fit.table, label = TRUE, ref = iris.label)
```

LabeljsCox

LabeljsCox: Apply label information to cox2.display object using label data

Description

Apply label information to cox2.display object using label data

Usage

```
LabeljsCox(obj, ref)
```

Arguments

- obj cox2.display object
- ref Label data made by mk.lev function

Details

DETAILS

Value

cox2.display object with label information

Examples

```
library(survival)
fit <- coxph(Surv(time, status) ~ sex + ph.ecog + ph.karno + cluster(inst),
              data = lung, model = TRUE)
fit.table <- cox2.display(fit)
lung.label <- mk.lev(lung)
LabeljsCox(fit.table, ref = lung.label)
```

LabeljsGeeglm

LabeljsGeeglm: Apply label information to geeglm.display object using label data

Description

Apply label information to geeglm.display object using label data

Usage

```
LabeljsGeeglm(obj, ref)
```

Arguments

- | | |
|-----|------------------------------------|
| obj | geeglm.display object |
| ref | Label data made by mk.lev function |

Details

DETAILS

Value

geeglm.display object with label information

Examples

```
library(geepack);library(jstable)
data(dietox)
dietox$Cu <- as.factor(dietox$Cu)
gee01 <- geeglm (Weight ~ Time + Cu , id =Pig, data = dietox,
                  family=gaussian,corstr="ex")
g1 <- geeglm.display(gee01)
LabeljsGeeglm(g1, ref = mk.lev(dietox))
```

LabeljsMetric*LabeljsMetric: Apply label information to jstable metric object using label data***Description**

Apply label information to metric object of jstable using label data

Usage

```
LabeljsMetric(obj.metric, ref)
```

Arguments

obj.metric	metric of lmer.display, coxme.display
ref	Label data made by mk.lev function

Details

DETAILS

Value

metric of lmer.display, coxme.display with label information

Examples

```
library(coxme)
fit <- coxme(Surv(time, status) ~ sex + ph.ecog + ph.karno + (1|inst) +(1|sex), lung)
fit.table <- coxme.display(fit)
lung.label <- mk.lev(lung)
LabeljsTable(fit.table$table, ref = lung.label)
LabeljsRanef(fit.table$ranef, ref = lung.label)
LabeljsMetric(fit.table$metric, ref = lung.label)
```

LabeljsMixed*LabeljsMixed: Apply label information to jstable object using label data***Description**

Apply label information to object of jstable using label data

Usage

```
LabeljsMixed(obj, ref)
```

Arguments

- | | |
|-----|------------------------------------|
| obj | lmer.display, coxme.display |
| ref | Label data made by mk.lev function |

Details

DETAILS

Value

lmer.display, coxme.display with label information

Examples

```
library(coxme)
fit <- coxme(Surv(time, status) ~ sex + ph.ecog + ph.karno + (1|inst) +(1|sex), lung)
fit.table <- coxme.display(fit)
lung.label <- mk.lev(lung)
LabeljsMixed(fit.table, ref = lung.label)
```

LabeljsRanef

LabeljsRanef: Apply label information to jstable random effect object using label data

Description

Apply label information to ranef object of jstable using label data

Usage

```
LabeljsRanef(obj.ranef, ref)
```

Arguments

- | | |
|-----------|--|
| obj.ranef | ranef of lmer.display, coxme.display, cox2.display |
| ref | Label data made by mk.lev function |

Details

DETAILS

Value

ranef of lmer.display, coxme.display, cox2.display with label information

Examples

```
library(coxme)
fit <- coxme(Surv(time, status) ~ sex + ph.ecog + ph.karno + (1|inst) +(1|sex), lung)
fit.table <- coxme.display(fit)
lung.label <- mk.lev(lung)
LabeljsTable(fit.table$table, ref = lung.label)
LabeljsRanef(fit.table$ranef, ref = lung.label)
```

LabeljsTable

LabeljsTable: Apply label information to jstable object using label data

Description

Apply label information to table of geeglm.display, lmer.display, coxme.display using label data

Usage

```
LabeljsTable(obj.table, ref)
```

Arguments

obj.table	table of geeglm.display, lmer.display, coxme.display
ref	Label data made by mk.lev function

Details

DETAILS

Value

table of geeglm.display, lmer.display, coxme.display with label information

Examples

```
library(coxme)
fit <- coxme(Surv(time, status) ~ sex + ph.ecog + ph.karno + (1|inst) +(1|sex), lung)
fit.table <- coxme.display(fit)
lung.label <- mk.lev(lung)
LabeljsTable(fit.table$table, ref = lung.label)
```

<code>lmer.display</code>	<i>lmer.display: table for "lmerMod" or "glmerMod" object (lme4 package)</i>
---------------------------	--

Description

Make mixed effect model results from "lmerMod" or "glmerMod" object (lme4 package)

Usage

```
lmer.display(lmerMod.obj, dec = 2, ci.ranef = F)
```

Arguments

<code>lmerMod.obj</code>	"lmerMod" or "glmerMod" object
<code>dec</code>	Decimal, Default: 2
<code>ci.ranef</code>	Show confidence interval of random effects?, Default: F

Details

DETAILS

Value

Table: fixed & random effect

Examples

```
library(geepack)
data(dietox)
dietox$Cu <- as.factor(dietox$Cu)
l1 <- lme4::lmer(Weight ~ Time + Cu + (1|Pig) + (1|Evit), data = dietox)
lmer.display(l1)
```

<code>lmerExp</code>	<i>lmerExp: transform the unit of coefficients (internal function)</i>
----------------------	--

Description

Transform the unit of coefficients to "Coeff", "OR" or "RR"

Usage

```
lmerExp(lmer.coef, family = "binomial", dec)
```

Arguments

<code>lmer.coef</code>	lmer coefficients.
<code>family</code>	Family: "gaussian", "binomial", "poisson", "quasipoisson", etc..., Default: 'binomial'
<code>dec</code>	Decimal point

Details

DETAILS

Value

The transforemed coefficients(95

Examples

#EXAMPLE1

`mk.lev`*Export label and level: multiple variable***Description**

Export label and level: multiple variable

Usage`mk.lev(data)`**Arguments**

<code>data</code>	data
-------------------	------

Details

DETAILS

Value

default label and level data

Examples`mk.lev(iris)`

`mk.lev.var`

Export label and level: one variable

Description

Export label and level: one variable

Usage

```
mk.lev.var(data, vname)
```

Arguments

data	data
vname	variable to export label and level

Details

DETAILS

Value

if continuous variable - (label, NA), categorical variable - (label, level)

Examples

```
lapply(names(iris), function(x){jstable::mk.lev.var(iris, x)})
```

`opt.data`

datatable option for data(DT package)

Description

DT::datatable option for data

Usage

```
opt.data(fname)
```

Arguments

fname	File name to download
-------	-----------------------

Details

DETAILS

Value

datatable option object

Examples

```
opt.data("mtcars")
```

opt.roc

datatable option for ROC result(DT package)

Description

DT::datatable option for ROC result

Usage

```
opt.roc(fname)
```

Arguments

fname File name to download

Details

DETAILS

Value

datatable option object

Examples

```
options = opt.roc("mtcars")
```

opt.simpledown	<i>datatable option for simple download(DT package)</i>
----------------	---

Description

Simple download DT::datatable option - No filter, No page

Usage

```
opt.simpledown(fname)
```

Arguments

fname	File name to download
-------	-----------------------

Details

DETAILS

Value

datatable option object

Examples

```
options = opt.simpledown("mtcars")
```

opt.tb1	<i>datatable option for table 1(DT package)</i>
---------	---

Description

DT::datatable option for table 1

Usage

```
opt.tb1(fname)
```

Arguments

fname	File name to download
-------	-----------------------

Details

DETAILS

Value

datatable option object

Examples

```
options = opt.tb1("mtcars")
```

opt.tbreg

datatable option for regression table(DT package)

Description

DT::datatable option for glm, gee(geepack package), lmer/glmer(lme4 package)

Usage

```
opt.tbreg(fname)
```

Arguments

fname	File name to download
--------------	-----------------------

Details

DETAILS

Value

datatable option object

Examples

```
options = opt.tbreg("mtcars")
```

svycox.display *svycoxph.display: table for svycoxph.object in survey package.*

Description

Table for complex design cox model.

Usage

```
svycox.display(svycoxph.obj, decimal = 2)
```

Arguments

svycoxph.obj	svycoxph.object
decimal	digit, Default: 2

Details

DETAILS

Value

List including table, metric, caption

See Also

[svycoxph AIC](#)

Examples

```
library(survival);data(pbc)
pbc$sex = factor(pbc$sex)
pbc$stage = factor(pbc$stage)
pbc$randomized<-with(pbc, !is.na(trt) & trt>0)
biasmodel<-glm(randomized~age*edema,data=pbc,family=binomial)
pbc$randprob<-fitted(biasmodel)

if (is.null(pbc$albumin)) pbc$albumin<-pbc$alb ##pre2.9.0

dpbc <- survey::svydesign(id=~1, prob=~randprob, strata=~edema, data=subset(pbc,randomized))

model <- survey::svycoxph(Surv(time,status>0)~ sex + protime + albumin + stage,design=dpbc)
svycox.display(model)
```

svyCreateTableOne2 *svyCreateTableOne2: Modified svyCreateTableOne function in tableone package*

Description

Combine `svyCreateTableOne` & `print` function in `tableone` package

Usage

```
svyCreateTableOne2(
  data,
  strata,
  vars,
  factorVars,
  includeNA = F,
  test = T,
  showAllLevels = T,
  printToggle = F,
  quote = F,
  smd = F,
  nonnormal = NULL,
  catDigits = 1,
  contDigits = 2,
  pDigits = 3,
  Labels = F,
  labldata = NULL,
  minMax = F
)
```

Arguments

<code>data</code>	A data frame in which these variables exist. All variables (both <code>vars</code> and <code>strata</code>) must be in this data frame.
<code>strata</code>	Stratifying (grouping) variable name(s) given as a character vector. If omitted, the overall results are returned.
<code>vars</code>	Variables to be summarized given as a character vector. Factors are handled as categorical variables, whereas numeric variables are handled as continuous variables. If empty, all variables in the data frame specified in the <code>data</code> argument are used.
<code>factorVars</code>	Numerically coded variables that should be handled as categorical variables given as a character vector. Do not include factors, unless you need to relevel them by removing empty levels. If omitted, only factors are considered categorical variables. The variables specified here must also be specified in the <code>vars</code> argument.

includeNA	If TRUE, NA is handled as a regular factor level rather than missing. NA is shown as the last factor level in the table. Only effective for categorical variables., Default: F
test	If TRUE, as in the default and there are more than two groups, groupwise comparisons are performed, Default: T
showAllLevels	Whether to show all levels. FALSE by default, i.e., for 2-level categorical variables, only the higher level is shown to avoid redundant information., Default: T
printToggle	Whether to print the output. If FALSE, no output is created, and a matrix is invisibly returned., Default: F
quote	Whether to show everything in quotes. The default is FALSE. If TRUE, everything including the row and column names are quoted so that you can copy it to Excel easily, Default: F
smd	If TRUE, as in the default and there are more than two groups, standardized mean differences for all pairwise comparisons are calculated, Default: F
nonnormal	A character vector to specify the variables for which the p-values should be those of nonparametric tests. By default all p-values are from normal assumption-based tests (oneway.test),, Default: NULL
catDigits	Number of digits to print for proportions., Default: 1
contDigits	Number of digits to print for continuous variables. Default 2.
pDigits	Number of digits to print for p-values (also used for standardized mean differences), Default: 3
Labels	Use Label, Default: F
labeldata	labeldata to use, Default: NULL
minMax	Whether to use [min,max] instead of [p25,p75] for nonnormal variables. The default is FALSE.

Details

DETAILS

Value

A matrix object containing what you see is also invisibly returned. This can be assinged a name and exported via write.csv.

Examples

```
library(survey);data(nhanes)
nhanes$SDMVPSU <- as.factor(nhanes$SDMVPSU)
nhanesSvy <- svydesign(ids = ~ SDMVPSU, strata = ~ SDMVSTRA, weights = ~ WTMEC2YR,
nest = TRUE, data = nhanes)
svyCreateTableOne2(vars = c("HI_CHOL","race","agecat","RIAGENDR"),
strata = "RIAGENDR", data = nhanesSvy)
```

svyCreateTableOneJS	<i>svyCreateTableOneJS: Modified CreateTableOne function in tableone package</i>
---------------------	--

Description

Combine svyCreateTableOne & print function in tableone package

Usage

```
svyCreateTableOneJS(
  vars,
  strata = NULL,
  strata2 = NULL,
  data,
  factorVars = NULL,
  includeNA = F,
  test = T,
  showAllLevels = T,
  printToggle = F,
  quote = F,
  smd = F,
  Labels = F,
  nonnormal = NULL,
  catDigits = 1,
  contDigits = 2,
  pDigits = 3,
  labldata = NULL,
  psub = T,
  minMax = F
)
```

Arguments

vars	Variables to be summarized given as a character vector. Factors are handled as categorical variables, whereas numeric variables are handled as continuous variables. If empty, all variables in the data frame specified in the data argument are used.
strata	Stratifying grouping variable name(s) given as a character vector. If omitted, the overall results are returned.
strata2	Stratifying 2nd grouping variable name(s) given as a character vector. If omitted, the 1 group results are returned.
data	A data frame in which these variables exist. All variables (both vars and strata) must be in this data frame.

<code>factorVars</code>	Numerically coded variables that should be handled as categorical variables given as a character vector. Do not include factors, unless you need to relevel them by removing empty levels. If omitted, only factors are considered categorical variables. The variables specified here must also be specified in the <code>vars</code> argument.
<code>includeNA</code>	If TRUE, NA is handled as a regular factor level rather than missing. NA is shown as the last factor level in the table. Only effective for categorical variables., Default: F
<code>test</code>	If TRUE, as in the default and there are more than two groups, groupwise comparisons are performed, Default: T
<code>showAllLevels</code>	Whether to show all levels. FALSE by default, i.e., for 2-level categorical variables, only the higher level is shown to avoid redundant information., Default: T
<code>printToggle</code>	Whether to print the output. If FALSE, no output is created, and a matrix is invisibly returned., Default: F
<code>quote</code>	Whether to show everything in quotes. The default is FALSE. If TRUE, everything including the row and column names are quoted so that you can copy it to Excel easily, Default: F
<code>smd</code>	If TRUE, as in the default and there are more than two groups, standardized mean differences for all pairwise comparisons are calculated, Default: F
<code>Labels</code>	Use Label, Default: F
<code>nonnormal</code>	A character vector to specify the variables for which the p-values should be those of nonparametric tests. By default all p-values are from normal assumption-based tests (oneway.test),, Default: NULL
<code>catDigits</code>	Number of digits to print for proportions., Default: 1
<code>contDigits</code>	Number of digits to print for continuous variables. Default 2.
<code>pDigits</code>	Number of digits to print for p-values (also used for standardized mean differences), Default: 3
<code>labeldata</code>	labeldata to use, Default: NULL
<code>psub</code>	show sub-group p-values, Default: F
<code>minMax</code>	Whether to use [min,max] instead of [p25,p75] for nonnormal variables. The default is FALSE.

Details

DETAILS

Value

A matrix object containing what you see is also invisibly returned. This can be assinged a name and exported via write.csv.

Examples

```
library(survey);data(nhanes)
nhanes$SDMVPSU <- as.factor(nhanes$SDMVPSU)
nhanesSvy <- svydesign(ids = ~ SDMVPSU, strata = ~ SDMVSTRA, weights = ~ WTMEC2YR,
nest = TRUE, data = nhanes)
svyCreateTableOneJS(vars = c("HI_CHOL", "race", "agecat", "RIAGENDR"),
strata = "RIAGENDR", data = nhanesSvy)
```

svyregress.display *svyregress.display: table for svyglm.object*

Description

table for svyglm.object (survey package).

Usage

```
svyregress.display(svyglm.obj, decimal = 2)
```

Arguments

svyglm.obj	svyglm.object
decimal	digit, Default: 2

Details

DETAILS

Value

table

Examples

```
library(survey);data(api)
apistrat$tt = c(rep(1, 20), rep(0, nrow(apistrat) - 20))
dstrat<-svydesign(id=~1,strata=~stype, weights=~pw, data=apistrat, fpc=~fpc)
ds <- svyglm(api00~ell+meals+cname+mobility, design=dstrat)
ds2 <- svyglm(tt~ell+meals+cname+mobility, design=dstrat, family = quasibinomial())
svyregress.display(ds)
svyregress.display(ds2)
```

TableSubgroupCox*TableSubgroupCox: Sub-group analysis table for Cox/svycox model.*

Description

Sub-group analysis table for Cox/svycox model.

Usage

```
TableSubgroupCox(
  formula,
  var_subgroup = NULL,
  var_cov = NULL,
  data,
  time_eventrate = 3 * 365,
  decimal.hr = 2,
  decimal.percent = 1,
  decimal.pvalue = 3
)
```

Arguments

formula	formula with survival analysis.
var_subgroup	1 sub-group variable for analysis, Default: NULL
var_cov	Variables for additional adjust, Default: NULL
data	Data or svydesign in survey package.
time_eventrate	Time for kaplan-meier based event rate calculation, Default = 365 * 3
decimal.hr	Decimal for hazard ratio, Default: 2
decimal.percent	Decimal for percent, Default: 1
decimal.pvalue	Decimal for pvalue, Default: 3

Details

This result is used to make forestplot.

Value

Sub-group analysis table.

See Also

[safely](#),[map](#),[map2](#) [coxph](#) [svycoxph](#) [confint](#)

Examples

```
library(survival);library(dplyr)
lung %>%
  mutate(status = as.integer(status == 1),
         sex = factor(sex),
         kk = factor(as.integer(pat.karno >= 70))) -> lung
TableSubgroupCox(Surv(time, status) ~ sex, data = lung, time_eventrate = 100)
TableSubgroupCox(Surv(time, status) ~ sex, var_subgroup = "kk", data = lung,
                 time_eventrate = 100)

## survey design
library(survey)
data.design <- svydesign(id = ~1, data = lung)
TableSubgroupCox(Surv(time, status) ~ sex, data = data.design, time_eventrate = 100)
TableSubgroupCox(Surv(time, status) ~ sex, var_subgroup = "kk", data = data.design,
                 time_eventrate = 100)
```

TableSubgroupMultiCox *TableSubgroupMultiCox:* *Multiple sub-group analysis table for Cox/svycox model.*

Description

Multiple sub-group analysis table for Cox/svycox model.

Usage

```
TableSubgroupMultiCox(
  formula,
  var_subgroups = NULL,
  var_cov = NULL,
  data,
  time_eventrate = 3 * 365,
  decimal.hr = 2,
  decimal.percent = 1,
  decimal.pvalue = 3,
  line = F
)
```

Arguments

formula	formula with survival analysis.
var_subgroups	Multiple sub-group variables for analysis, Default: NULL
var_cov	Variables for additional adjust, Default: NULL
data	Data or svydesign in survey package.
time_eventrate	Time for kaplan-meier based event rate calculation, Default = 365 * 3

```

decimal.hr      Decimal for hazard ratio, Default: 2
decimal.percent
                  Decimal for percent, Default: 1
decimal.pvalue  Decimal for pvalue, Default: 3
line            Include new-line between sub-group variables, Default: F

```

Details

This result is used to make forestplot.

Value

Multiple sub-group analysis table.

See Also

[map](#) [bind](#)

Examples

```

library(survival);library(dplyr)
lung %>%
  mutate(status = as.integer(status == 1),
         sex = factor(sex),
         kk = factor(as.integer(pat.karno >= 70)),
         kk1 = factor(as.integer(pat.karno >= 60))) -> lung
TableSubgroupMultiCox(Surv(time, status) ~ sex, var_subgroups = c("kk", "kk1"),
                      data=lung, time_eventrate = 100, line = TRUE)

## survey design
library(survey)
data.design <- svydesign(id = ~1, data = lung)
TableSubgroupMultiCox(Surv(time, status) ~ sex, var_subgroups = c("kk", "kk1"),
                      data = data.design, time_eventrate = 100)

```

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