Package 'apaTables'

November 21, 2015

Title Create American Psychological Association (APA) Style Tables

Version 1.0.4

Description A common task faced by researchers is the creation of APA style (i.e., American Psychological Association style) tables from statistical output. In R a large number of function calls are often needed to obtain all of the desired information for a single APA style table. As well, the process of manually creating APA style tables in a word processor is prone to transcription errors. This package creates Word files (.doc files) containing APA style tables for several types of analyses. Using this package minimizes transcription errors and reduces the number commands needed by the user.

Depends R (>= 3.1.2)

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License Unlimited

LazyData true

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R topics documented:

`album` *album data from textbook*

Description

album data from textbook

Usage

```
data(album)
```

Format

A data frame with 200 rows and 4 variables:

adverts Amount spent of adverts, thousands of pounds

sales Album sales in thousands

airplay Number of times songs from album played on radio week prior to release

attract Attractiveness rating of band members

Source

http://studysites.sagepub.com/dsur/study/

References

Field, A., Miles, J., & Field, Z. (2012) Discovering Statistics Using R. Sage: Chicago.

`apa.1way.table` *Creates a table of means and standard deviations for a 1-way ANOVA design in APA style*

Description

Creates a table of means and standard deviations for a 1-way ANOVA design in APA style

Usage

```
apa.1way.table(iv, dv, data, filename = NA, table.number = NA,
  show.conf.interval = FALSE, landscape = FALSE)
```

Arguments

iv	Name of independent variable column in data frame
dv	Name of dependent variable column in data frame
data	Project data frame name
filename	(optional) Output filename document filename (must end in .rtf or .doc only)
table.number	Integer to use in table number output line
show.conf.interval	(TRUE/FALSE) Display confidence intervals in table.
landscape	(TRUE/FALSE) Make RTF file landscape

Value

APA table object

Examples

```
# View top few rows of viagra data set
# from Discovering Statistics Using R
head(viagra)

# Use apa.1way.table function
apa.1way.table(iv=dose,dv=libido,data=viagra,filename="ex1wayTable.doc")
```

---

apa.2way.table *Creates a table of means and standard deviations for a 2-way ANOVA design in APA style*

Description

Creates a table of means and standard deviations for a 2-way ANOVA design in APA style

Usage

```
apa.2way.table(iv1, iv2, dv, data, filename = NA, table.number = NA,
  show.conf.interval = FALSE, show.marginal.means = FALSE,
  landscape = FALSE)
```

Arguments

iv1	Name of independent variable 1 column in data frame
iv2	Name of independent variable 2 column in data frame
dv	Name of dependent variable column in data frame
data	Project data frame name
filename	(optional) Output filename document filename (must end in .rtf or .doc only)

table.number	Integer to use in table number output line
show.conf.interval	(TRUE/FALSE) Display confidence intervals in table. Negates show.marginal.means = TRUE.
show.marginal.means	(TRUE/FALSE) Show marginal means in output. Only used if show.conf.interval = FALSE.
landscape	(TRUE/FALSE) Make RTF file landscape

Value

APA table object

Examples

```
# View top few rows of goggles data set
# from Discovering Statistics Using R
head(goggles)

# Use apa.2way.table function
apa.2way.table(iv1=gender,iv2=alcohol,dv=attractiveness,data=goggles,filename="ex2wayTable.doc")
```

---

apa.cor.table *Creates a correlation table in APA style with means and standard deviations*

Description

Creates a correlation table in APA style with means and standard deviations

Usage

```
apa.cor.table(data, filename = NA, table.number = NA,
  show.conf.interval = TRUE, landscape = TRUE)
```

Arguments

data	Project data frame
filename	(optional) Output filename document filename (must end in .rtf or .doc only)
table.number	Integer to use in table number output line
show.conf.interval	(TRUE/FALSE) Display confidence intervals in table.
landscape	(TRUE/FALSE) Make RTF file landscape

Value

APA table object

Examples

```
# View top few rows of attitude data set
head(attitude)

# Use apa.cor.table function
apa.cor.table(attitude)
apa.cor.table(attitude, show.conf.interval=FALSE)
apa.cor.table(attitude, filename="ex.CorTable1.doc")
apa.cor.table(attitude, show.conf.interval=FALSE, filename="ex.CorTable2.doc")
```

`apa.d.table` *Creates a d-values for all paired comparisons in APA style*

Description

Creates a d-values for all paired comparisons in APA style

Usage

```
apa.d.table(iv, dv, data, filename = NA, table.number = NA,
  show.conf.interval = TRUE, landscape = TRUE)
```

Arguments

`iv`	Name of independent variable column in data frame for all paired comparisons
`dv`	Name of dependent variable column in data frame for all paired comparisons
`data`	Project data frame name
`filename`	(optional) Output filename document filename (must end in .rtf or .doc only)
`table.number`	Integer to use in table number output line
`show.conf.interval`	(TRUE/FALSE) Display confidence intervals in table.
`landscape`	(TRUE/FALSE) Make RTF file landscape

Value

APA table object

Examples

```
# View top few rows of viagra data set from Discovering Statistics Using R
head(viagra)

# Use apa.d.table function
apa.d.table(iv=dose,dv=libido,data=viagra,filename="ex.d.Table.doc")
```

apa.reg.table *Creates a regresion table in APA style*

Description

Creates a regresion table in APA style

Usage

```
apa.reg.table(..., filename = NA, table.number = NA)
```

Arguments

...	Regression (i.e., lm) result objects. Typically, one for each block in the regression.
filename	(optional) Output filename document filename (must end in .rtf or .doc only)
table.number	Integer to use in table number output line

Value

APA table object

Examples

```
# View top few rows of goggles data set
# from Discovering Statistics Using R
head(album)

# Single block example
blk1 <- lm(sales ~ adverts + airplay, data=album)
apa.reg.table(blk1)
apa.reg.table(blk1,filename="exRegTable.doc")

# Two block example, more than two blocks can be used
blk1 <- lm(sales ~ adverts, data=album)
blk2 <- lm(sales ~ adverts + airplay + attract, data=album)
apa.reg.table(blk1,blk2,filename="exRegBlocksTable.doc")

# Interaction product-term test with blocks
blk1 <- lm(sales ~ adverts + airplay, data=album)
blk2 <- lm(sales ~ adverts + airplay + I(adverts * airplay), data=album)
apa.reg.table(blk1,blk2,filename="exInteraction1.doc")

# Interaction product-term test with blocks and additional product terms
blk1<-lm(sales ~ adverts + airplay, data=album)
blk2<-lm(sales ~ adverts + airplay + I(adverts*adverts) + I(airplay*airplay), data=album)
blk3<-lm(sales~adverts+airplay+I(adverts*adverts)+I(airplay*airplay)+I(adverts*airplay),data=album)
apa.reg.table(blk1,blk2,blk3,filename="exInteraction2.doc")
```

```
# Interaction product-term test with single regression (i.e., semi-partial correlation focus)
blk1 <- lm(sales ~ adverts + airplay + I(adverts * airplay), data=album)
apa.reg.table(blk1,filename="exInteraction3.doc")
```

---

apaTables *Create American Psychological Association (APA) Style Tables*

Description

A common task faced by researchers is the creation of APA style (i.e., *American Psychological Association* style) tables from statistical output. In R a large number of function calls are often needed to obtain all of the desired information for a single APA style table. As well, the process of manually creating APA style tables in a word processor is prone to transcription errors. This package creates Word files (.doc files) containing APA style tables for several types of analyses. Using this package minimizes transcription errors and reduces the number commands needed by the user. Examples are provided in this documentation and at http://www.StatsCanBeFun.com. Currently, the following tables can be created:

- Correlation tables - Correlation tables (with confidence intervals and descriptive statistics) are created from data frames using apa.cor.table
- Single "block" regression tables - Single "block" regression tables are created from a regression object using apa.reg.table
- Multiple "block" regression tables - Multiple "block" regression tables are created from regression objects using apa.reg.table
- ANOVA cell tables - ANOVA mean/standard deviation tables for 1- and 2-way designs are created from data frames using apa.1way.table and apa.2way.table
- Standardized mean difference (i.e., *d*-value) tables (with confidence intervals and descriptive statistics) illustrating all possible paired comparisons using a single independent variable are created from data frames using apa.d.table

Package:	apaTables
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Author(s)

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Eysenck *Eysenck data*

Description

Eysenck data

Usage

```
data(Eysenck)
```

Format

A data frame with 100 rows and 3 variables:

Age Young or Old

Condition Experimental learning condition

Recall Level of word recall

Source

http://www.uvm.edu/~dhowell/methods7/DataFiles/Tab13-2.dat

References

Howell, D. (2012). Statistical methods for psychology. Cengage Learning.

goggles *goggles data from textbook*

Description

goggles data from textbook

Usage

```
data(goggles)
```

Format

A data frame with 48 rows and 3 variables:

gender Gender of participant

alcohol Amount alcohol consumed

attractiveness Perceived attractiveness

Source

http://studysites.sagepub.com/dsur/study/

References

Field, A., Miles, J., & Field, Z. (2012) Discovering Statistics Using R. Sage: Chicago.

`viagra` *viagra data from textbook*

Description

viagra data from textbook

Usage

```
data(viagra)
```

Format

A data frame with 15 rows and 2 variables:

dose Level of viagra dose

libido Libido after taking viagra

Source

http://studysites.sagepub.com/dsur/study/

References

Field, A., Miles, J., & Field, Z. (2012) Discovering Statistics Using R. Sage: Chicago.

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