

Package ‘apaText’

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Type Package

Title Create R Markdown Text for Results in the Style of the American Psychological Association (APA)

Version 0.1.7

Description Create APA style text from analyses for use within R Markdown documents. Descriptive statistics, confidence intervals, and cell sizes are reported.

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Encoding UTF-8

Depends R (>= 3.1.2)

Imports stats, dplyr, cocor

Suggests apaTables

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`apa.desc`*Report descriptive statistics for a set of values*

Description

Report descriptive statistics for a set of values

Usage

```
apa.desc(  
  .data,  
  .dv = NULL,  
  show.mean = NULL,  
  show.sd = NULL,  
  show.se = NULL,  
  show.conf.interval = NULL,  
  show.N = NULL,  
  number.decimals = NULL  
)
```

Arguments

<code>.data</code>	A data frame or data frame extension (e.g., tibble)
<code>.dv</code>	Name of the dependent variable column
<code>show.mean</code>	Show mean (Bool. Default TRUE)
<code>show.sd</code>	Show standard deviation (Bool. Default TRUE)
<code>show.se</code>	Show standard error (Bool. Default FALSE)
<code>show.conf.interval</code>	Show confidence interval (Bool. Default TRUE)
<code>show.N</code>	Show number of cases (Bool. Default TRUE)
<code>number.decimals</code>	Number of decimals in output

Value

R Markdown text

Examples

```
# 2-way ANOVA Example  
if (requireNamespace("apaTables", quietly = TRUE)){  
  library(dplyr)  
  goggles <- apaTables::goggles  
  
  #Main Effect Means: Gender  
  goggles %>% filter(gender == "Female") %>% apa.desc(attractiveness)
```

```

goggles %>% filter(gender == "Male") %>% apa.desc(attractiveness)

# Main Effect Means: Alcohol
goggles %>% filter(alcohol == "None") %>% apa.desc(attractiveness)
goggles %>% filter(alcohol == "2 Pints") %>% apa.desc(attractiveness)
goggles %>% filter(alcohol == "4 Pints") %>% apa.desc(attractiveness)

# Single Cell Mean
goggles %>% filter(alcohol == "4 Pints", gender == "Female") %>%
  apa.desc(attractiveness)
}

```

 apa.ind.t.test

Report descriptive statistics for a set of values

Description

Report descriptive statistics for a set of values

Usage

```

apa.ind.t.test(
  .data,
  .iv,
  .dv,
  bonferroni.multiplier = 1,
  show.mean.difference = TRUE,
  show.statistic = NULL,
  show.conf.interval = NULL,
  number.decimals = NULL,
  number.decimals.p = NULL,
  var.equal = TRUE,
  one.sided = FALSE
)

```

Arguments

<code>.data</code>	A data frame or data frame extension (e.g., tibble)
<code>.iv</code>	Name of the independent variable column (only 2 levels)
<code>.dv</code>	Name of the dependent variable column
<code>bonferroni.multiplier</code>	Multiply the p-value by this number to make a bonferroni adjustment
<code>show.mean.difference</code>	Show mean difference (Bool. Default TRUE)
<code>show.statistic</code>	Show t-value (Bool. Default TRUE)
<code>show.conf.interval</code>	Show CI for mean difference (Bool. Default TRUE)

number.decimals Number of decimals used in output (excluding p-value)

number.decimals.p Number of decimals used in p-value output

var.equal (boolean) TRUE or FALSE for cell equal variances

one.sided (boolean) TRUE or FALSE for conducting a one-sided test

Value

R Markdown text

Examples

```
if (requireNamespace("apaTables", quietly = TRUE)){
  library(dplyr)
  goggles <- apaTables::goggles

  # one-sided test
  goggles %>%
    filter(alccohol == "None") %>%
    filter(gender == "Female" | gender == "Male") %>%
    apa.ind.t.test(gender, attractiveness,
                  var.equal = TRUE, one.sided = TRUE)

  #two-sided test
  goggles %>%
    filter(alccohol == "None") %>%
    filter(gender == "Female" | gender == "Male") %>%
    apa.ind.t.test(gender, attractiveness,
                  var.equal = TRUE, one.sided = FALSE)

  #two-sided test with Bonferroni correction (three exploratory tests)
  goggles %>%
    filter(alccohol == "None") %>%
    filter(gender == "Female" | gender == "Male") %>%
    apa.ind.t.test(gender, attractiveness,
                  var.equal = TRUE, one.sided = FALSE,
                  bonferroni.multiplier = 3)
}
```

apa.r

Report r(x,y) correlation in markdown APA style

Description

Report r(x,y) correlation in markdown APA style

Usage

```
apa.r(
  .data,
  .x,
  .y,
  alternative = "two.sided",
  method = "pearson",
  show.r = TRUE,
  show.conf.interval = NULL,
  show.N = NULL,
  show.p = NULL,
  show.statistic = NULL,
  number.decimals = NULL,
  number.decimals.p = NULL
)
```

Arguments

<code>.data</code>	A data frame or data frame extension (e.g., tibble)
<code>.x</code>	Name of column in data frame
<code>.y</code>	Name of column in data frame
<code>alternative</code>	Alternative hypothesis to pass to alternative argument of <code>cor.test</code> . Default is "two.sided"
<code>method</code>	Calculation method to pass to alternative argument of <code>cor.test</code> . Default is "pearson"
<code>show.r</code>	Show correlation or not (TRUE/FALSE)
<code>show.conf.interval</code>	Show confidence interval or not (TRUE/FALSE). Default behavior is TRUE.
<code>show.N</code>	Show sample size or not (TRUE/FALSE). Default behavior is TRUE.
<code>show.p</code>	Show p-value or not (TRUE/FALSE). Default behavior is TRUE.
<code>show.statistic</code>	Show test statistic or not (TRUE/FALSE). Default behavior is TRUE.
<code>number.decimals</code>	Number of decimals used in output (excluding p-value)
<code>number.decimals.p</code>	Number of decimals used in output for p-value

Value

R Markdown text

Examples

```
library(dplyr)
attitude %>% apa.r(rating, advance)
```

apa.r.compare.across.samples

Report difference between correlations in markdown APA style from different samples

Description

Report difference between correlations in markdown APA style from different samples

Usage

```
apa.r.compare.across.samples(  
  formula,  
  data1,  
  data2,  
  alternative = "two.sided",  
  show.conf.interval = NULL,  
  show.N = NULL,  
  show.p = NULL,  
  show.statistic = NULL  
)
```

Arguments

formula	Formula for comparing correlations
data1	Project data frame 1 name
data2	Project data frame 2 name
alternative	Alternative hypothesis to pass to alternative argument of cocor.indep.groups. Default is "two.sided"
show.conf.interval	Show confidence interval or not (TRUE/FALSE). Default behavior is TRUE.
show.N	Show sample size or not (TRUE/FALSE). Default behavior is TRUE.
show.p	Show p-value or not (TRUE/FALSE). Default behavior is TRUE.
show.statistic	Show test statistic or not (TRUE/FALSE). Default behavior is TRUE.

Value

R Markdown text

Examples

```
# Test difference between r(rating, learning) from dataset: attitude  
# and r(weight, height) from dataset: women  
  
apa.r.compare.across.samples(formula = ~ rating + learning | height + weight,  
                             data1 = attitude,  
                             data2 = women)
```

```
apa.r.compare.across.samples.from.descriptive
```

Report difference between correlations in markdown APA style from different samples

Description

Report difference between correlations in markdown APA style from different samples

Usage

```
apa.r.compare.across.samples.from.descriptive(  
  r1,  
  r2,  
  n1,  
  n2,  
  alternative = "two.sided",  
  show.conf.interval = NULL,  
  show.N = NULL,  
  show.p = NULL,  
  show.statistic = NULL  
)
```

Arguments

r1	Correlation in sample 1
r2	Correlation in sample 2
n1	Sample size for sample 1
n2	Sample size for sample 2
alternative	Alternative hypothesis to pass to alternative argument of cocor.indep.groups. Default is "two.sided"
show.conf.interval	Show confidence interval or not (TRUE/FALSE). Default behavior is TRUE.
show.N	Show sample size or not (TRUE/FALSE). Default behavior is TRUE.
show.p	Show p-value or not (TRUE/FALSE). Default behavior is TRUE.
show.statistic	Show test statistic or not (TRUE/FALSE). Default behavior is TRUE.

Value

R Markdown text

Examples

```
apa.r.compare.across.samples.from.descriptive(r1 = .3, r2 = .6, n1 = 70, n2 = 80)
```

```
apa.r.compare.within.sample
```

Report difference in markdown APA style between between correlations within a sample

Description

Report difference in markdown APA style between between correlations within a sample

Usage

```
apa.r.compare.within.sample(  
  formula,  
  data,  
  test = "pearson1898",  
  alternative = "two.sided",  
  show.conf.interval = NULL,  
  show.N = NULL,  
  show.p = NULL,  
  show.statistic = NULL  
)
```

Arguments

formula	Formula for comparing correlations
data	Project data frame name
test	Type of significance test. If non-overlapping variables use one of "pearson1898", "dunn1969", "steiger1980", "raghunathan1996", or "silver2004". If overlapping variables use one of pearson1898, hotelling1940, hendrickson1970, williams1959, olkin1967, dunn1969, steiger1980, meng1992, hittner2003. Default is pearson1898.
alternative	Alternative hypothesis to pass to alternative argument of cor.test. Default is "two.sided"
show.conf.interval	Show confidence interval or not (TRUE/FALSE). Default behavior is TRUE.
show.N	Show sample size or not (TRUE/FALSE). Default behavior is TRUE.
show.p	Show p-value or not (TRUE/FALSE). Default behavior is TRUE.
show.statistic	Show test statistic or not (TRUE/FALSE). Default behavior is TRUE.

Value

R Markdown text

Examples

```
# non-overlapping variables example
apa.r.compare.within.sample(data = attitude,
  formula = ~ rating + complaints | privileges + learning)

# overlapping variables example
apa.r.compare.within.sample(data = attitude,
  formula = ~ rating + complaints | rating + learning)
```

 apaText

Create R Markdown Text for Results in the Style of the American Psychological Association (APA)

Description

Create APA style text from analyses for use within R Markdown documents. Descriptive statistics, confidence intervals, and cell sizes are reported.

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Author(s)

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 set.apa.default.options

*Create apaText default options for showing confidence intervals etc..
 These options will be used unless overridden by local function arguments*

Description

Create apaText default options for showing confidence intervals etc.. These options will be used unless overridden by local function arguments

Usage

```
set.apa.default.options()
```

Value

A list with options object for apaText

Examples

```
# You must create an object called apa.default.options  
# for options to be used, as per below.
```

```
apa.options <- set.apa.default.options()
```

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