

# Package ‘apaTables’

January 4, 2021

**Version** 2.0.8

**Title** 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.

**URL** <https://github.com/dstanley4/apaTables>

**BugReports** <https://github.com/dstanley4/apaTables/issues>

**Depends** R (>= 3.1.2)

**Imports** stats, utils, methods, car, broom, dplyr, boot, tibble, MBESS

**Suggests** testthat, knitr

**RoxygenNote** 7.1.1

**License** MIT License + file LICENSE

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album	<i>album data from textbook</i>
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### Description

A data set from Field et al (2012)

### 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

<https://studysites.sagepub.com/dsur/study/>

### References

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

---

apa.1way.table	<i>Creates a table of means and standard deviations for a 1-way ANOVA design in APA style</i>
----------------	---

---

### 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

```
## Not run:
# Example 1: 1-way from Field et al. (2012) Discovery Statistics Using R
apa.1way.table(iv=dose,dv=libido,data=viagra,filename="ex1_desc_table.doc")

## End(Not run)
```

---

apa.2way.table	<i>Creates a table of means and standard deviations for a 2-way ANOVA design in APA style</i>
----------------	---

---

### 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 = TRUE
)
```

### 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**

```
## Not run:
# Example 2: 2-way from Fidler & Thompson (2001)
apa.2way.table(iv1=a,iv2=b,dv=dv,data=fidler_thompson,landscape=TRUE, filename="ex2_desc_table.doc")

# Example 3: 2-way from Field et al. (2012) Discovery Statistics Using R
apa.2way.table(iv1=gender,iv2=alcohol,dv=attractiveness,data=goggles,filename="ex3_desc_table.doc")

## End(Not run)
```

---

apa.aov.table	<i>Creates a fixed-effects ANOVA table in APA style</i>
---------------	---

---

**Description**

Creates a fixed-effects ANOVA table in APA style

**Usage**

```
apa.aov.table(
  lm_output,
  filename,
  table.number = NA,
  conf.level = 0.9,
  type = 3
)
```

**Arguments**

lm_output	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
conf.level	Level of confidence for interval around partial eta-squared (.90 or .95). A value of .90 is the default, this helps to create consistency between the CI overlapping with zero and conclusions based on the p-value.
type	Sum of Squares Type. Type II or Type III; specify, 2 or 3, respectively. Default value is 3.

**Value**

APA table object

## References

Smithson, M. (2001). Correct confidence intervals for various regression effect sizes and parameters: The importance of noncentral distributions in computing intervals. *Educational and Psychological Measurement*, 61(4), 605-632.

Fidler, F., & Thompson, B. (2001). Computing correct confidence intervals for ANOVA fixed-and random-effects effect sizes. *Educational and Psychological Measurement*, 61(4), 575-604.

## Examples

```
## Not run:
#Example 1: 1-way from Field et al. (2012) Discovery Statistics Using R
options(contrasts = c("contr.helmert", "contr.poly"))
lm_output <- lm(libido ~ dose, data = viagra)
apa.aov.table(lm_output, filename = "ex1_anova_table.doc")

# Example 2: 2-way from Fidler & Thompson (2001)
# You must set these contrasts to ensure values match SPSS
options(contrasts = c("contr.helmert", "contr.poly"))
lm_output <- lm(dv ~ a*b, data = fidler_thompson)
apa.aov.table(lm_output, filename = "ex2_anova_table.doc")

#Example 3: 2-way from Field et al. (2012) Discovery Statistics Using R
# You must set these contrasts to ensure values match SPSS
options(contrasts = c("contr.helmert", "contr.poly"))
lm_output <- lm(attractiveness ~ gender*alcohol, data = goggles)
apa.aov.table(lm_output, filename = "ex3_anova_table.doc")

## End(Not run)
```

---

apa.cor.table	<i>Creates a correlation table in APA style with means and standard deviations</i>
---------------	--

---

## 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,
  show.sig.stars = 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. This argument is deprecated and will be removed from later versions.
show.sig.stars	(TRUE/FALSE) Display stars for significance in table.
landscape	(TRUE/FALSE) Make RTF file landscape

**Value**

APA table object

**Examples**

```
## Not run:
# View top few rows of attitude data set
head(attitude)

# Use apa.cor.table function
apa.cor.table(attitude)
apa.cor.table(attitude, filename="ex.CorTable1.doc")

## End(Not run)
```

---

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. This argument is deprecated and will be removed from later versions.
landscape	(TRUE/FALSE) Make RTF file landscape

**Value**

APA table object

**Examples**

```
## Not run:
# 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 = "ex1_d_table.doc")

## End(Not run)
```

---

apa.ezANOVA.table	<i>Creates an ANOVA table in APA style based output of ezANOVA command from ez package</i>
-------------------	--

---

**Description**

Creates an ANOVA table in APA style based output of ezANOVA command from ez package

**Usage**

```
apa.ezANOVA.table(
  ez.output,
  correction = "GG",
  table.title = "",
  filename,
  table.number = NA
)
```



**Arguments**

ez.output	Output object from ezANOVA command from ez package
correction	Type of sphericity correction: "none", "GG", or "HF" corresponding to none, Greenhouse-Geisser and Huynh-Feldt, respectively.
table.title	String containing text for table title
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**

```
## Not run:
# ** Example 1: Between Participant Predictors
#

library(apaTables)
library(ez)

# See format where one row represents one PERSON
# Note that participant, gender, and alcohol are factors

print(goggles)

# Use ezANOVA
# Be sure use the options command, as below, to ensure sufficient digits

options(digits = 10)
goggles_results <- ezANOVA(data = goggles,
                           dv = attractiveness,
                           between = .(gender, alcohol),
                           participant ,
                           detailed = TRUE)

# Make APA table

goggles_table <- apa.ezANOVA.table(goggles_results,
                                   filename="ex1_ez_independent.doc")

print(goggles_table)

#
# ** Example 2: Within Participant Predictors
#
```

```
library(apaTables)
library(tidyr)
library(forcats)
library(ez)

# See initial wide format where one row represents one PERSON
print(drink_attitude_wide)

# Convert data from wide format to long format where one row represents one OBSERVATION.
# Wide format column names MUST represent levels of each variable separated by an underscore.
# See vignette for further details.

drink_attitude_long <- gather(data = drink_attitude_wide,
                              key = cell, value = attitude,
                              beer_positive:water_neutral,
                              factor_key=TRUE)

drink_attitude_long <- separate(data = drink_attitude_long,
                                col = cell, into = c("drink", "imagery"),
                                sep = "_", remove = TRUE)

drink_attitude_long$drink <- as_factor(drink_attitude_long$drink)
drink_attitude_long$imagery <- as_factor(drink_attitude_long$imagery)

# See new long format of data, where one row is one OBSERVATION.
# As well, notice that we have two columns (drink, imagery)
# drink, imagery, and participant are factors
print(drink_attitude_long)

# Set contrasts to match Field et al. (2012) textbook output

alcohol_vs_water <- c(1, 1, -2)
beer_vs_wine <- c(-1, 1, 0)
negative_vs_other <- c(1, -2, 1)
positive_vs_neutral <- c(-1, 0, 1)
contrasts(drink_attitude_long$drink) <- cbind(alcohol_vs_water, beer_vs_wine)
contrasts(drink_attitude_long$imagery) <- cbind(negative_vs_other, positive_vs_neutral)

# Use ezANOVA
# Be sure use the options command, as below, to ensure sufficient digits

options(digits = 10)
drink_attitude_results <- ezANOVA(data = drink_attitude_long,
                                   dv = .(attitude), wid = .(participant),
                                   within = .(drink, imagery),
                                   type = 3, detailed = TRUE)

# Make APA table
```

```
drink_table <- apa.ezANOVA.table(drink_attitude_results,
                                filename="ex2_repeated_table.doc")

print(drink_table)

#
# ** Example 3: Between and Within Participant Predictors
#

library(apaTables)
library(tidyr)
library(forcats)
library(ez)

# See initial wide format where one row represents one PERSON
print(dating_wide)

# Convert data from wide format to long format where one row represents one OBSERVATION.
# Wide format column names MUST represent levels of each variable separated by an underscore.
# See vignette for further details.

dating_long <- gather(data = dating_wide,
                      key = cell, value = date_rating,
                      attractive_high:ugly_none,
                      factor_key = TRUE)

dating_long <- separate(data = dating_long,
                       col = cell, into = c("looks", "personality"),
                       sep = "_", remove = TRUE)

dating_long$looks <- as_factor(dating_long$looks)
dating_long$personality <- as_factor(dating_long$personality)

# See new long format of data, where one row is one OBSERVATION.
# As well, notice that we have two columns (looks, personality)
# looks, personality, and participant are factors

print(dating_long)

# Set contrasts to match Field et al. (2012) textbook output

some_vs_none <- c(1, 1, -2)
hi_vs_av <- c(1, -1, 0)
attractive_vs_ugly <- c(1, 1, -2)
attractive_vs_average <- c(1, -1, 0)
contrasts(dating_long$personality) <- cbind(some_vs_none, hi_vs_av)
contrasts(dating_long$looks) <- cbind(attractive_vs_ugly, attractive_vs_average)

# Use ezANOVA
```

```

library(ez)
options(digits = 10)
dating_results <-ezANOVA(data = dating_long, dv = .(date_rating), wid = .(participant),
                        between = .(gender), within = .(looks, personality),
                        type = 3, detailed = TRUE)

# Make APA table

dating_table <- apa.ezANOVA.table(dating_results,
                                filename = "ex3_mixed_table.doc")
print(dating_table)

## End(Not run)

```

---

apa.reg.boot.table	<i>Creates a regression table in APA style with bootstrap confidence intervals</i>
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---

### Description

Creates a regression table in APA style with bootstrap confidence intervals

### Usage

```

apa.reg.boot.table(
  ...,
  filename = NA,
  table.number = NA,
  number.samples = 1000
)

```

### 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
number.samples	Number of samples to create for bootstrap CIs

### Value

APA table object

### References

Algina, J. Keselman, H.J. & Penfield, R.J. (2008). Note on a confidence interval for the squared semipartial correlation coefficient. *Educational and Psychological Measurement*, 68, 734-741.

**Examples**

```
## Not run:
#Note: number.samples = 50 below.
#       However, please use a value of 1000 or higher

# View top few rows of goggles data set
# from Discovering Statistics Using R
set.seed(1)
head(album)

# Single block example
blk1 <- lm(sales ~ adverts + airplay, data=album)
apa.reg.boot.table(blk1)
apa.reg.boot.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.boot.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.boot.table(blk1,blk2,filename="exInteraction1.doc")

## End(Not run)
```

---

apa.reg.table	<i>Creates a regression table in APA style</i>
---------------	--

---

**Description**

Creates a regression table in APA style

**Usage**

```
apa.reg.table(
  ...,
  filename = NA,
  table.number = NA,
  prop.var.conf.level = 0.95
)
```

**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  
 prop.var.conf.level Level of confidence (.90 or .95, default .95) for interval around sr2, R2, and Delta R2. Use of .90 confidence level helps to create consistency between the CI overlapping with zero and conclusions based on the p-value for that block (or block difference).

## Value

APA table object

## References

sr2 and delta R2 confidence intervals calculated via:

Alf Jr, E. F., & Graf, R. G. (1999). Asymptotic confidence limits for the difference between two squared multiple correlations: A simplified approach. *Psychological Methods*, 4(1), 70.

Note that Algina, Keselman, & Penfield (2008) found this approach can under some circumstances lead to inaccurate CIs on proportion of variance values. You might consider using the Algina, Keselman, & Penfield (2008) approach via the `apa.reg.boot.table` function

## Examples

```
## Not run:
# 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")
```

```
## End(Not run)
```

---

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>.

## Details

Bugs and feature requests can be reported at: <https://github.com/dstanley4/apaTables/issues>

Tutorial at: <https://dstanley4.github.io/apaTables/articles/apaTables.html>

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 tables - An ANOVA F-table can be created via [apa.aov.table](#) from a regression object (i.e. lm output or aov output). Cell mean/standard deviation tables for 1- and 2-way designs are created from data frames using [apa.1way.table](#) and [apa.2way.table](#).
- ezANOVA tables from ez package - An ANOVA F-table from ezANOVA output can be created via [apa.ezANOVA.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  
Type: Package  
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License: MIT

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---

 dating\_wide

*dating data from textbook*


---

**Description**

A data set from Field et al (2012)

**Usage**

data(dating\_wide)

**Format**

A data frame with 20 rows and 11 columns. Gender is a between subjects variable. Looks and Personality are within subject variables. Both gender and participant are factors.

**participant** Factor: Participant ID number

**gender** Factor: Gender: Male/Female

**attractive\_high** Date rating where looks=attractive and personality=high

**average\_high** Date rating where looks=average and personality=high

**ugly\_high** Date rating where looks=ugly and personality=high

**attractive\_some** Date rating where looks=attractive and personality=some

**average\_some** Date rating where looks=average and personality=some

**ugly\_some** Date rating where looks=ugly and personality=some

**attractive\_none** Date rating where looks=attractive and personality=none

**average\_none** Date rating where looks=average and personality=none

**ugly\_none** Date rating where looks=ugly and personality=none

**Source**

<https://studysites.sagepub.com/dsur/study/>

**References**

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



---

drink\_attitude\_wide    *drink attitude data from textbook*

---

### Description

A data set from Field et al (2012)

### Usage

```
data(drink_attitude_wide)
```

### Format

A data frame with 20 rows and 10 columns. Drink and Imagery are within subject variables. Participant is a factor.

**participant** Factor: Participant ID number

**beer\_positive** Attitude where drink=beer and imagery=positive

**beer\_negative** Attitude where drink=beer and imagery=negative

**beer\_neutral** Attitude where drink=beer and imagery=neutral

**wine\_positive** Attitude where drink=wine and imagery=positive

**wine\_negative** Attitude where drink=wine and imagery=negative

**wine\_neutral** Attitude where drink=wine and imagery=neutral

**water\_positive** Attitude where drink=water and imagery=positive

**water\_negative** Attitude where drink=water and imagery=negative

**water\_neutral** Attitude where drink=water and imagery=neutral

### Source

<https://studysites.sagepub.com/dsur/study/>

### References

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

---

Eysenck

*Eysenck data*

---

**Description**

A data set from Howell (2012)

**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**

<https://www.uvm.edu/~statdhtx/methods8/DataFiles/Tab13-2.dat>

**References**

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

---

fidler\_thompson

*Fidler & Thompson (2001) Fixed-Effects ANOVA data*

---

**Description**

A data set from Fidler & Thompson (2001)

**Usage**

```
data(fidler_thompson)
```

**Format**

A data frame with 24 rows and 3 variables:

**a** Independent variable: a

**b** Independent variable: b

**dv** Dependent variable: dv

## References

Fidler, F. & Thompson, B. (2001). Computing correct confidence intervals for ANOVA fixed- and random-effects effect sizes. *Educational and Psychological Measurement*, 61, 575-604.

---

get.ci.partial.eta.squared

*Calculates confidence interval for partial eta-squared in a fixed-effects ANOVA*

---

## Description

Calculates confidence interval for partial eta-squared in a fixed-effects ANOVA

## Usage

```
get.ci.partial.eta.squared(F.value, df1, df2, conf.level = 0.9)
```

## Arguments

F.value	The F-value for the fixed-effect
df1	Degrees of freedom for the fixed-effect
df2	Degrees of freedom error
conf.level	Confidence level (0 to 1). For partial eta-squared a confidence level of .90 is traditionally used rather than .95.

## Value

List with confidence interval values (LL and UL)

## Examples

```
# Smithson (2001) p. 619
get.ci.partial.eta.squared(F.value=6.00, df1=1, df2=42, conf.level=.90)
get.ci.partial.eta.squared(F.value=2.65, df1=6, df2=42, conf.level=.90)
get.ci.partial.eta.squared(F.value=2.60, df1=6, df2=42, conf.level=.90)

# Fidler & Thompson (2001) Fixed Effects 2x4 p. 594 (Table 6) / p. 596 (Table 8)
get.ci.partial.eta.squared(F.value=1.50, df1=1, df2=16, conf.level=.90)
get.ci.partial.eta.squared(F.value=4.00, df1=3, df2=16, conf.level=.90)
get.ci.partial.eta.squared(F.value=1.50, df1=3, df2=16, conf.level=.90)
```

---

goggles

*goggles data from textbook*

---

**Description**

A data set from Field et al (2012)

**Usage**

```
data(goggles)
```

**Format**

A data frame with 48 rows and 3 variables:

**participant** Participant identification number

**gender** Gender of participant

**alcohol** Amount alcohol consumed

**attractiveness** Perceived attractiveness

**Source**

<https://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**

A data set from Field et al (2012)

**Usage**

```
data(viagra)
```

**Format**

A data frame with 15 rows and 2 variables:

**dose** Level of viagra dose

**libido** Libido after taking viagra

**Source**

<https://studysites.sagepub.com/dsur/study/>

**References**

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

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