

# Package ‘report’

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**Type** Package

**Title** Automated Reporting of Results and Statistical Models

**Version** 0.6.2

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**Description** The aim of the 'report' package is to bridge the gap between R's output and the formatted results contained in your manuscript. This package converts statistical models and data frames into textual reports suited for publication, ensuring standardization and quality in results reporting.

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**URL** <https://easystats.github.io/report/>

**BugReports** <https://github.com/easystats/report/issues>

**Depends** R (>= 3.6)

**Imports** bayestestR (>= 0.17.0), effectsize (>= 1.0.1), insight (>= 1.4.1), parameters (>= 0.28.1), performance (>= 0.15.1), datawizard (>= 1.2.0), stats, tools, utils

**Suggests** BayesFactor, brms, collapse, GLMMadaptive, glmmTMB, ivreg, knitr, lavaan, lme4, loo, nlme, dplyr, Formula, rmarkdown, rstanarm, survival, modelbased (>= 0.9.0), emmeans, marginaleffects (>= 0.25.0), RcppEigen, BH, testthat (>= 3.2.1)

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easystats/easystatstemplate

**Collate** 'cite\_easystats.R' 'format\_algorithm.R' 'format\_citation.R'  
'format\_formula.R' 'format\_model.R' 'reexports.R'  
'report-package.R' 'report.BFBayesFactor.R'

```
'utils_combine_tables.R' 'report.lm.R' 'report.MixMod.R'
'report_text.R' 'report.R' 'report.htest.R' 'report.aov.R'
'report.bayesfactor_models.R' 'report.lme4.R'
'report.stanreg.R' 'report.brmsfit.R' 'report.character.R'
'report.compare.loo.R' 'report.compare_performance.R'
'report.coxph.R' 'report.data.frame.R' 'report.default.R'
'report.estimate_contrasts.R' 'report.factor.R' 'report.glm.R'
'report.glmmTMB.R' 'report.ivreg.R' 'report.lavaan.R'
'report.lme.R' 'report.numeric.R' 'report.sessionInfo.R'
'report.survreg.R' 'report.test_performance.R'
'report.zeroinfl.R' 'report.effectsize.R' 'report_htest_chi2.R'
'report_htest_cor.R' 'report_htest_fisher.R'
'report_htest_friedman.R' 'report_htest_kruskal.R'
'report_htest_ttest.R' 'report_htest_wilcox.R' 'report_info.R'
'report_intercept.R' 'report_misc.R' 'report_model.R'
'report_parameters.R' 'report_participants.R'
'report_performance.R' 'report_priors.R' 'report_random.R'
'report_s.R' 'report_sample.R' 'report_statistics.R'
'report_table.R' 'utils_error_message.R' 'utils_grouped_df.R'
'utils_misspelled_variables.R' 'zzz.R'
```

**NeedsCompilation** no

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|----------------|----------------------------------------------------------------|
| as.report_text | <i>Create or test objects of class <a href="#">report</a>.</i> |
|----------------|----------------------------------------------------------------|

---

### Description

Allows to create or test whether an object is of the report class.

### Usage

```
as.report_text(x, ...)
```

```
as.report(text, table = NULL, plot = NULL, ...)
```

```
is.report(x)
```

```
as.report_effectsize(x, summary = NULL, prefix = " - ", ...)
```

```
as.report_info(x, summary = NULL, ...)
```

```

as.report_intercept(x, summary = NULL, ...)
as.report_model(x, summary = NULL, ...)
as.report_parameters(x, summary = NULL, prefix = " - ", ...)
as.report_performance(x, summary = NULL, ...)
as.report_priors(x, summary = NULL, ...)
as.report_random(x, summary = NULL, ...)
as.report_statistics(x, summary = NULL, prefix = " - ", ...)
as.report_table(x, ...)

```

### Arguments

|         |                                                             |
|---------|-------------------------------------------------------------|
| x       | An arbitrary R object.                                      |
| ...     | Args to be saved as attributes.                             |
| text    | Text obtained via report_text()                             |
| table   | Table obtained via report_table()                           |
| plot    | Plot obtained via report_plot(). Not yet implemented.       |
| summary | Add a summary as attribute (to be extracted via summary()). |
| prefix  | The prefix to be displayed in front of each parameter.      |

### Value

A report object or a TRUE/FALSE value.

---

|                |                                     |
|----------------|-------------------------------------|
| cite_easystats | <i>Cite the easystats ecosystem</i> |
|----------------|-------------------------------------|

---

### Description

A convenient function for those who wish to cite the easystats packages.

### Usage

```

cite_easystats(
  packages = "easystats",
  format = c("text", "markdown", "biblatex"),
  intext_prefix = TRUE,
  intext_suffix = "."
)

```

```
## S3 method for class 'cite_easystats'
summary(object, what = "all", ...)

## S3 method for class 'cite_easystats'
print(x, what = "all", ...)
```

## Arguments

|               |                                                                                                                                                                                                                        |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| packages      | A character vector of packages to cite. Can be "all" for all <i>easystats</i> packages or a vector with specific package names.                                                                                        |
| format        | The format to generate citations. Can be "text" for plain text, "markdown" for markdown citations and CSL bibliography (recommended for writing in RMarkdown), or "biblatex" for BibLaTeX citations and bibliography.  |
| intext_prefix | A character vector of length 1 containing text to include before in-text citations. If TRUE, defaults to "Analyses were conducted using the easystats collection of packages ". If FALSE or NA, no prefix is included. |
| intext_suffix | A character vector of length 1 containing text to include after in-text citations. Defaults to ". ". If FALSE or NA, no suffix is included.                                                                            |
| what          | What elements of the citations to print, can be "all", "intext", or "refs".                                                                                                                                            |
| ...           | Not used. Included for compatibility with the generic function.                                                                                                                                                        |
| x, object     | A "cite_easystats" object to print.                                                                                                                                                                                    |

## Value

A list of class "cite\_easystats" with elements:

- intext: In-text citations in the requested format
- refs: References or bibliography in the requested format

## Examples

```
# Cite just the 'easystats' umbrella package:
cite_easystats()
summary(cite_easystats(), what = "all")

# Cite every easystats package:
cite_easystats(packages = "all")
summary(cite_easystats(packages = "all"), what = "all")

# Cite specific packages:
cite_easystats(packages = c("modelbased", "see"))
summary(cite_easystats(packages = c("modelbased", "see")), what = "all")

# To cite easystats packages in an RMarkdown document, use:

## In-text citations:
print(cite_easystats(format = "markdown"), what = "intext")
```

```
## Bibliography (print with the `output = 'asis'` option on the code chunk)
print(cite_easystats(format = "markdown"), what = "refs")
```

---

|                  |                                                 |
|------------------|-------------------------------------------------|
| format_algorithm | <i>Convenient formatting of text components</i> |
|------------------|-------------------------------------------------|

---

## Description

Convenient formatting of text components

## Usage

```
format_algorithm(x)

format_formula(x, what = "conditional")

format_model(x)
```

## Arguments

|      |                                                                             |
|------|-----------------------------------------------------------------------------|
| x    | The R object that you want to report (see list of supported objects above). |
| what | The name of the item returned by <code>insight::find_formula</code> .       |

## Value

A character string.  
 A character string.  
 A character string.

## Examples

```
model <- lm(Sepal.Length ~ Species, data = iris)
format_algorithm(model)

# Mixed models
library(lme4)
model <- lme4::lmer(Sepal.Length ~ Sepal.Width + (1 | Species), data = iris)
format_algorithm(model)

model <- lm(Sepal.Length ~ Species, data = iris)
format_formula(model)

# Mixed models
library(lme4)
```

```
model <- lme4::lmer(Sepal.Length ~ Sepal.Width + (1 | Species), data = iris)
format_formula(model)
format_formula(model, "random")

model <- lm(Sepal.Length ~ Species, data = iris)
format_model(model)

# Mixed models
library(lme4)
model <- lme4::lmer(Sepal.Length ~ Sepal.Width + (1 | Species), data = iris)
format_model(model)
```

---

|                 |                            |
|-----------------|----------------------------|
| format_citation | <i>Citation formatting</i> |
|-----------------|----------------------------|

---

## Description

Convenience functions to manipulate and format citations. Only works with APA formatted citations, for now.

## Usage

```
format_citation(citation, authorsdate = FALSE, short = FALSE, intext = FALSE)

cite_citation(citation)

clean_citation(citation)
```

## Arguments

|             |                                                                                       |
|-------------|---------------------------------------------------------------------------------------|
| citation    | A character string of a citation.                                                     |
| authorsdate | Only show authors and date (remove title, journal, etc.).                             |
| short       | If more than one authors, replace by et al.                                           |
| intext      | Remove brackets around the date (so that it can be placed inside larger parentheses). |

## Value

A character string.

## Examples

```
library(report)

citation <- "Makowski, D., Ben-Shachar, M. S., Patil, I., & Ludecke, D. (2020).
Methods and Algorithms for Correlation Analysis in R. Journal of Open Source
Software, 5(51), 2306."

format_citation(citation, authorsdate = TRUE)
format_citation(citation, authorsdate = TRUE, short = TRUE)
format_citation(citation, authorsdate = TRUE, short = TRUE, intext = TRUE)

cite_citation(citation)
clean_citation(citation())
```

---

|        |                                         |
|--------|-----------------------------------------|
| report | <i>Automatic reporting of R objects</i> |
|--------|-----------------------------------------|

---

## Description

Create reports of different objects. See the documentation for your object's class:

## Usage

```
report(x, ...)
```

## Arguments

|     |                                                                             |
|-----|-----------------------------------------------------------------------------|
| x   | The R object that you want to report (see list of supported objects above). |
| ... | Arguments passed to or from other methods.                                  |

## Details

- [System and packages](#) (sessionInfo)
- [Dataframes and vectors](#)
- [Correlations and t-tests](#) (htest)
- [ANOVAs](#) (aov, anova, aovlist, ...)
- [Regression models](#) (glm, lm, ...)
- [Mixed models](#) (glmer, lmer, glmmTMB, ...)
- [Bayesian models](#) (stanreg, brms...)
- [Bayes factors](#) (from bayestestR)
- [Structural Equation Models \(SEM\)](#) (from lavaan)
- [Model comparison](#) (from performance())

Most of the time, the object created by the report() function can be further transformed, for instance summarized (using summary()), or converted to a table (using as.data.frame()).

**Organization:** `report_table` and `report_text` are the two distal representations of a report, and are the two provided in `report()`. However, intermediate steps are accessible (depending on the object) via specific functions (e.g., `report_parameters`).

**Output:**

The `report()` function generates a report-object that contain in itself different representations (e.g., text, tables, plots). These different representations can be accessed via several functions, such as:

- `as.report_text(r)`: Detailed text.
- `as.report_text(r, summary=TRUE)`: Minimal text giving the minimal information.
- `as.report_table(r)`: Comprehensive table including most available indices.
- `as.report_table(r, summary=TRUE)`: Minimal table.

Note that for some report objects, some of these representations might be identical.

**Value**

A list-object of class `report`, which contains further list-objects with a short and long description of the model summary, as well as a short and long table of parameters and fit indices.

**See Also**

Specific components of reports (especially for stats models):

- `report_table()`
- `report_parameters()`
- `report_statistics()`
- `report_effectsize()`
- `report_model()`
- `report_priors()`
- `report_random()`
- `report_performance()`
- `report_info()`
- `report_text()`

Other types of reports:

- `report_system()`
- `report_packages()`
- `report_participants()`
- `report_sample()`
- `report_date()`

Methods:

- `as.report()`

Template file for supporting new models:

- `report.default()`

## Examples

```
library(report)

model <- t.test(mtcars$mpg ~ mtcars$am)
r <- report(model)

# Text
r
summary(r)

# Tables
as.data.frame(r)
summary(as.data.frame(r))
```

---

report.aov

*Reporting ANOVAs*

---

## Description

Create reports for ANOVA models.

## Usage

```
## S3 method for class 'aov'
report(x, ...)

## S3 method for class 'aov'
report_effectsize(x, include_intercept = FALSE, ...)

## S3 method for class 'aov'
report_table(x, include_intercept = FALSE, ...)

## S3 method for class 'aov'
report_statistics(x, table = NULL, ...)

## S3 method for class 'aov'
report_parameters(x, ...)

## S3 method for class 'aov'
report_model(x, table = NULL, ...)

## S3 method for class 'aov'
report_info(x, effectsize = NULL, ...)

## S3 method for class 'aov'
report_text(x, table = NULL, ...)
```

**Arguments**

|                   |                                                                          |
|-------------------|--------------------------------------------------------------------------|
| x                 | Object of class aov, anova or aovlist.                                   |
| ...               | Arguments passed to or from other methods.                               |
| include_intercept | Set to TRUE to include the intercept (relevant for type-3 ANOVA tables). |
| table             | Provide the output of report_table() to avoid its re-computation.        |
| effectsize        | Provide the output of report_effectsize() to avoid its re-computation.   |

**Value**

An object of class `report()`.

**See Also**

Specific components of reports (especially for stats models):

- `report_table()`
- `report_parameters()`
- `report_statistics()`
- `report_effectsize()`
- `report_model()`
- `report_priors()`
- `report_random()`
- `report_performance()`
- `report_info()`
- `report_text()`

Other types of reports:

- `report_system()`
- `report_packages()`
- `report_participants()`
- `report_sample()`
- `report_date()`

Methods:

- `as.report()`

Template file for supporting new models:

- `report.default()`

**Examples**

```
data <- iris
data$Cat1 <- rep(c("A", "B"), length.out = nrow(data))

model <- aov(Sepal.Length ~ Species * Cat1, data = data)
r <- report(model)
r
summary(r)
as.data.frame(r)
summary(as.data.frame(r))
```

---

report.bayesfactor\_models

*Reporting Models' Bayes Factor*


---

**Description**

Create reports of Bayes factors for model comparison.

**Usage**

```
## S3 method for class 'bayesfactor_models'
report(
  x,
  interpretation = "jeffreys1961",
  exact = TRUE,
  protect_ratio = TRUE,
  ...
)

## S3 method for class 'bayesfactor_inclusion'
report(
  x,
  interpretation = "jeffreys1961",
  exact = TRUE,
  protect_ratio = TRUE,
  ...
)
```

**Arguments**

|                |                                                                                                                                                  |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| x              | Object of class bayesfactor_inclusion.                                                                                                           |
| interpretation | Effect size interpretation set of rules (see <a href="#">interpret_bf</a> ).                                                                     |
| exact          | Should very large or very small values be reported with a scientific format (e.g., 4.24e5), or as truncated values (as "> 1000" and "< 1/1000"). |
| protect_ratio  | Should values smaller than 1 be represented as ratios?                                                                                           |
| ...            | Arguments passed to or from other methods.                                                                                                       |

**Value**

An object of class `report()`.

**See Also**

Specific components of reports (especially for stats models):

- `report_table()`
- `report_parameters()`
- `report_statistics()`
- `report_effectsize()`
- `report_model()`
- `report_priors()`
- `report_random()`
- `report_performance()`
- `report_info()`
- `report_text()`

Other types of reports:

- `report_system()`
- `report_packages()`
- `report_participants()`
- `report_sample()`
- `report_date()`

Methods:

- `as.report()`

Template file for supporting new models:

- `report.default()`

**Examples**

```
library(bayestestR)
# Bayes factor - models
mo0 <- lm(Sepal.Length ~ 1, data = iris)
mo1 <- lm(Sepal.Length ~ Species, data = iris)
mo2 <- lm(Sepal.Length ~ Species + Petal.Length, data = iris)
mo3 <- lm(Sepal.Length ~ Species * Petal.Length, data = iris)
BFmodels <- bayesfactor_models(mo1, mo2, mo3, denominator = mo0)

r <- report(BFmodels)
r

# Bayes factor - inclusion
```

```
inc_bf <- bayesfactor_inclusion(BFmodels, prior_odds = c(1, 2, 3), match_models = TRUE)

r <- report(inc_bf)
r
as.data.frame(r)
```

---

report.BFBayesFactor    *Reporting BFBayesFactor objects from the BayesFactor package*

---

## Description

Interpretation of the Bayes factor output from the BayesFactor package.

## Usage

```
## S3 method for class 'BFBayesFactor'
report(x, h0 = "H0", h1 = "H1", ...)

## S3 method for class 'BFBayesFactor'
report_statistics(x, table = NULL, ...)
```

## Arguments

|        |                                                                                                                   |
|--------|-------------------------------------------------------------------------------------------------------------------|
| x      | An object of class BFBayesFactor.                                                                                 |
| h0, h1 | Names of the null and alternative hypotheses.                                                                     |
| ...    | Other arguments to be passed to <a href="#">effectsize::interpret_bf</a> and <a href="#">insight::format_bf</a> . |
| table  | A parameters table (this argument is meant for internal use).                                                     |

## Examples

```
library(BayesFactor)

rez <- BayesFactor::ttestBF(iris$Sepal.Width, iris$Sepal.Length)
report_statistics(rez, exact = TRUE) # Print exact BF
report(rez, h0 = "the null hypothesis", h1 = "the alternative")

rez <- BayesFactor::correlationBF(iris$Sepal.Width, iris$Sepal.Length)
report(rez)
```

---

`report.brmsfit`*Reporting Bayesian Models from brms*

---

## Description

Create reports for Bayesian models. The description of the parameters follows the Sequential Effect eXistence and sIgnificance Testing framework (see [SEXIT documentation](#)).

## Usage

```
## S3 method for class 'brmsfit'
report(x, ...)

## S3 method for class 'brmsfit'
report_effectsize(x, effectsize_method = "basic", ...)
```

## Arguments

|                                |                                                                                                                                                                                                                                                        |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>x</code>                 | Object of class <code>lm</code> or <code>glm</code> .                                                                                                                                                                                                  |
| <code>...</code>               | Arguments passed to or from other methods.                                                                                                                                                                                                             |
| <code>effectsize_method</code> | Method for computing effect sizes. For <code>brmsfit</code> objects, defaults to "basic" (faster, no refitting) instead of "refit" to improve performance with large Bayesian models. See documentation for <a href="#">effectsize::effectsize()</a> . |

## Details

Message from the `rstan` package: "To avoid recompilation of unchanged Stan programs, we recommend calling `rstan_options(auto_write = TRUE)`"

## Value

An object of class [report\(\)](#).

## See Also

Specific components of reports (especially for stats models):

- [report\\_table\(\)](#)
- [report\\_parameters\(\)](#)
- [report\\_statistics\(\)](#)
- [report\\_effectsize\(\)](#)
- [report\\_model\(\)](#)
- [report\\_priors\(\)](#)
- [report\\_random\(\)](#)

- `report_performance()`
- `report_info()`
- `report_text()`

Other types of reports:

- `report_system()`
- `report_packages()`
- `report_participants()`
- `report_sample()`
- `report_date()`

Methods:

- `as.report()`

Template file for supporting new models:

- `report.default()`

## Examples

```
# Bayesian models
library(brms)
model <- suppressWarnings(brm(mpg ~ qsec + wt,
  data = mtcars,
  refresh = 0, iter = 300
))
r <- report(model, verbose = FALSE)
r
summary(r)
as.data.frame(r)
summary(as.data.frame(r))
```

## Description

Create reports for data frames.

**Usage**

```

## S3 method for class 'character'
report(
  x,
  n_entries = 3,
  levels_percentage = "auto",
  missing_percentage = "auto",
  ...
)

## S3 method for class 'data.frame'
report(
  x,
  n = FALSE,
  centrality = "mean",
  dispersion = TRUE,
  range = TRUE,
  distribution = FALSE,
  levels_percentage = "auto",
  digits = 2,
  n_entries = 3,
  missing_percentage = "auto",
  ...
)

## S3 method for class 'factor'
report(x, levels_percentage = "auto", ...)

## S3 method for class 'numeric'
report(
  x,
  n = FALSE,
  centrality = "mean",
  dispersion = TRUE,
  range = TRUE,
  distribution = FALSE,
  missing_percentage = "auto",
  digits = 2,
  ...
)

```

**Arguments**

|                                |                                                                                                                                                                |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>x</code>                 | The R object that you want to report (see list of supported objects above).                                                                                    |
| <code>n_entries</code>         | Number of different character entries to show. Can be "all".                                                                                                   |
| <code>levels_percentage</code> | Show characters entries and factor levels by number or percentage. If "auto", then will be set to number and percentage if the length if n observations larger |

|                    |                                                                                                                                                       |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | than 100.                                                                                                                                             |
| missing_percentage | Show missing by number (default) or percentage. If "auto", then will be set to number and percentage if the length if n observations larger than 100. |
| ...                | Arguments passed to or from other methods.                                                                                                            |
| n                  | Include number of observations for each individual variable.                                                                                          |
| centrality         | Character vector, indicating the index of centrality (either "mean" or "median").                                                                     |
| dispersion         | Show index of dispersion ( <a href="#">sd</a> if centrality = "mean", or <a href="#">mad</a> if centrality = "median").                               |
| range              | Show range.                                                                                                                                           |
| distribution       | Show kurtosis and skewness.                                                                                                                           |
| digits             | Number of significant digits.                                                                                                                         |

### Value

An object of class [report\(\)](#).

### Examples

```
r <- report(iris,
  centrality = "median", dispersion = FALSE,
  distribution = TRUE, missing_percentage = TRUE
)
r
summary(r)
as.data.frame(r)
summary(as.data.frame(r))

# grouped analysis using `{dplyr}` package
library(dplyr)
r <- iris %>%
  group_by(Species) %>%
  report()
r
summary(r)
as.data.frame(r)
summary(as.data.frame(r))
```

### Description

Automatically report the results of Bayesian model comparison using the loo package.

**Usage**

```
## S3 method for class 'compare.loo'
report(x, include_IC = TRUE, include_ENP = FALSE, ...)
```

**Arguments**

|                          |                                                              |
|--------------------------|--------------------------------------------------------------|
| <code>x</code>           | An object of class <code>brms::loo_compare</code> .          |
| <code>include_IC</code>  | Whether to include the information criteria (IC).            |
| <code>include_ENP</code> | Whether to include the effective number of parameters (ENP). |
| <code>...</code>         | Additional arguments (not used for now).                     |

**Details**

The rule of thumb is that the models are "very similar" if `lelpd_diff1` (the absolute value of `elpd_diff`) is less than 4 (Sivula, Magnusson and Vehtari, 2020). If superior to 4, then one can use the SE to obtain a standardized difference (Z-diff) and interpret it as such, assuming that the difference is normally distributed. The corresponding p-value is then calculated as `2 * pnorm(-abs(Z-diff))`. However, note that if the raw ELPD difference is small (less than 4), it doesn't make much sense to rely on its standardized value: it is not very useful to conclude that a model is much better than another if both models make very similar predictions.

**Value**

Objects of class `report_text()`.

**Examples**

```
library(brms)

m1 <- brms::brm(mpg ~ qsec, data = mtcars)
m2 <- brms::brm(mpg ~ qsec + drat, data = mtcars)
m3 <- brms::brm(mpg ~ qsec + drat + wt, data = mtcars)

x <- suppressWarnings(brms::loo_compare(
  brms::add_criterion(m1, "loo"),
  brms::add_criterion(m2, "loo"),
  brms::add_criterion(m3, "loo"),
  model_names = c("m1", "m2", "m3")
))
report(x)
report(x, include_IC = FALSE)
report(x, include_ENP = TRUE)
```

---

`report.compare_performance`*Reporting models comparison*

---

## Description

Create reports for model comparison as obtained by the `performance::compare_performance()` function in the performance package.

## Usage

```
## S3 method for class 'compare_performance'  
report(x, ...)
```

```
## S3 method for class 'compare_performance'  
report_table(x, ...)
```

```
## S3 method for class 'compare_performance'  
report_statistics(x, table = NULL, ...)
```

```
## S3 method for class 'compare_performance'  
report_parameters(x, table = NULL, ...)
```

```
## S3 method for class 'compare_performance'  
report_text(x, table = NULL, ...)
```

## Arguments

|                    |                                                                                |
|--------------------|--------------------------------------------------------------------------------|
| <code>x</code>     | Object of class <code>NEW OBJECT</code> .                                      |
| <code>...</code>   | Arguments passed to or from other methods.                                     |
| <code>table</code> | Provide the output of <code>report_table()</code> to avoid its re-computation. |

## Value

An object of class `report()`.

## See Also

Specific components of reports (especially for stats models):

- `report_table()`
- `report_parameters()`
- `report_statistics()`
- `report_effectsize()`
- `report_model()`

- `report_priors()`
- `report_random()`
- `report_performance()`
- `report_info()`
- `report_text()`

Other types of reports:

- `report_system()`
- `report_packages()`
- `report_participants()`
- `report_sample()`
- `report_date()`

Methods:

- `as.report()`

Template file for supporting new models:

- `report.default()`

## Examples

```
library(report)
library(performance)

m1 <- lm(Sepal.Length ~ Petal.Length * Species, data = iris)
m2 <- lm(Sepal.Length ~ Petal.Length + Species, data = iris)
m3 <- lm(Sepal.Length ~ Petal.Length, data = iris)

x <- performance::compare_performance(m1, m2, m3)
r <- report(x)
r
summary(r)
as.data.frame(r)
summary(as.data.frame(r))

# Specific reports
report_table(x)
report_statistics(x)
report_parameters(x)
```

---

|                |                                                       |
|----------------|-------------------------------------------------------|
| report.default | <i>Template to add report support for new objects</i> |
|----------------|-------------------------------------------------------|

---

## Description

Template file to add report support for new objects. Check-out the vignette on [Supporting New Models](#).

## Usage

```
## Default S3 method:  
report(x, ...)  
  
## Default S3 method:  
report_effectsize(x, ...)  
  
## Default S3 method:  
report_table(x, ...)  
  
## Default S3 method:  
report_statistics(x, ...)  
  
## Default S3 method:  
report_parameters(x, ...)  
  
## Default S3 method:  
report_intercept(x, ...)  
  
## Default S3 method:  
report_model(x, ...)  
  
## Default S3 method:  
report_random(x, ...)  
  
## Default S3 method:  
report_priors(x, ...)  
  
## Default S3 method:  
report_performance(x, ...)  
  
## Default S3 method:  
report_info(x, ...)  
  
## Default S3 method:  
report_text(x, ...)
```

**Arguments**

x                      Object of class NEW OBJECT.  
...                    Arguments passed to or from other methods.

**Value**

An object of class `report()`.

**See Also**

Specific components of reports (especially for stats models):

- `report_table()`
- `report_parameters()`
- `report_statistics()`
- `report_effectsize()`
- `report_model()`
- `report_priors()`
- `report_random()`
- `report_performance()`
- `report_info()`
- `report_text()`

Other types of reports:

- `report_system()`
- `report_packages()`
- `report_participants()`
- `report_sample()`
- `report_date()`

Methods:

- `as.report()`

Template file for supporting new models:

- `report.default()`

**Examples**

```
library(report)

# Add a reproducible example instead of the following
model <- lm(Sepal.Length ~ Petal.Length * Species, data = iris)
r <- report(model)
r
summary(r)
as.data.frame(r)
summary(as.data.frame(r))
```

---

`report.estimate_contrasts`*Reporting estimate\_contrasts objects*

---

## Description

Create reports for estimate\_contrasts objects.

## Usage

```
## S3 method for class 'estimate_contrasts'  
report(x, ...)
```

```
## S3 method for class 'estimate_contrasts'  
report_table(x, ...)
```

```
## S3 method for class 'estimate_contrasts'  
report_text(x, table = NULL, ...)
```

## Arguments

|                    |                                                                   |
|--------------------|-------------------------------------------------------------------|
| <code>x</code>     | Object of class estimate_contrasts.                               |
| <code>...</code>   | Arguments passed to or from other methods.                        |
| <code>table</code> | Provide the output of report_table() to avoid its re-computation. |

## Value

An object of class `report()`.

## See Also

Specific components of reports (especially for stats models):

- `report_table()`
- `report_parameters()`
- `report_statistics()`
- `report_effectsize()`
- `report_model()`
- `report_priors()`
- `report_random()`
- `report_performance()`
- `report_info()`
- `report_text()`

Other types of reports:

- `report_system()`
- `report_packages()`
- `report_participants()`
- `report_sample()`
- `report_date()`

Methods:

- `as.report()`

Template file for supporting new models:

- `report.default()`

## Examples

```
library(modelbased)
model <- lm(Sepal.Width ~ Species, data = iris)
contr <- estimate_contrasts(model)
report(contr)
```

---

report.htest

*Reporting htest objects (Correlation, t-test...)*


---

## Description

Create reports for htest objects (`t.test()`, `cor.test()`, etc.).

## Usage

```
## S3 method for class 'htest'
report(x, ...)

## S3 method for class 'htest'
report_effectsize(x, table = NULL, ...)

## S3 method for class 'htest'
report_table(x, ...)

## S3 method for class 'htest'
report_statistics(x, table = NULL, ...)

## S3 method for class 'htest'
report_parameters(x, table = NULL, ...)

## S3 method for class 'htest'
report_model(x, table = NULL, ...)
```

```
## S3 method for class 'htest'  
report_info(x, effectsize = NULL, ...)  
  
## S3 method for class 'htest'  
report_text(x, table = NULL, ...)
```

### Arguments

|            |                                                                        |
|------------|------------------------------------------------------------------------|
| x          | Object of class htest.                                                 |
| ...        | Arguments passed to or from other methods.                             |
| table      | Provide the output of report_table() to avoid its re-computation.      |
| effectsize | Provide the output of report_effectsize() to avoid its re-computation. |

### Value

An object of class `report()`.

### See Also

Specific components of reports (especially for stats models):

- `report_table()`
- `report_parameters()`
- `report_statistics()`
- `report_effectsize()`
- `report_model()`
- `report_priors()`
- `report_random()`
- `report_performance()`
- `report_info()`
- `report_text()`

Other types of reports:

- `report_system()`
- `report_packages()`
- `report_participants()`
- `report_sample()`
- `report_date()`

Methods:

- `as.report()`

Template file for supporting new models:

- `report.default()`

## Examples

```
# t-tests
report(t.test(iris$Sepal.Width, iris$Sepal.Length))
report(t.test(iris$Sepal.Width, iris$Sepal.Length, var.equal = TRUE))
report(t.test(mtcars$mpg ~ mtcars$vs))
report(t.test(mtcars$mpg, mtcars$vs, paired = TRUE), verbose = FALSE)
report(t.test(iris$Sepal.Width, mu = 1))

# Correlations
report(cor.test(iris$Sepal.Width, iris$Sepal.Length))
```

---

|               |                                                    |
|---------------|----------------------------------------------------|
| report.lavaan | <i>Reports of Structural Equation Models (SEM)</i> |
|---------------|----------------------------------------------------|

---

## Description

Create a report for lavaan objects.

## Usage

```
## S3 method for class 'lavaan'
report(x, ...)

## S3 method for class 'lavaan'
report_performance(x, table = NULL, ...)
```

## Arguments

|       |                                                                   |
|-------|-------------------------------------------------------------------|
| x     | Object of class lavaan.                                           |
| ...   | Arguments passed to or from other methods.                        |
| table | Provide the output of report_table() to avoid its re-computation. |

## Value

An object of class `report()`.

## See Also

Specific components of reports (especially for stats models):

- `report_table()`
- `report_parameters()`
- `report_statistics()`
- `report_effectsize()`
- `report_model()`
- `report_priors()`

- `report_random()`
- `report_performance()`
- `report_info()`
- `report_text()`

Other types of reports:

- `report_system()`
- `report_packages()`
- `report_participants()`
- `report_sample()`
- `report_date()`

Methods:

- `as.report()`

Template file for supporting new models:

- `report.default()`

## Examples

```
# Structural Equation Models (SEM)
library(lavaan)
structure <- "ind60 =~ x1 + x2 + x3
             dem60 =~ y1 + y2 + y3
             dem60 ~ ind60"
model <- lavaan::sem(structure, data = PoliticalDemocracy)
r <- report(model)
r
summary(r)
as.data.frame(r)
summary(as.data.frame(r))

# Specific reports
suppressWarnings(report_table(model))
suppressWarnings(report_performance(model))
```

---

`report.lm`*Reporting (General) Linear Models*

---

**Description**

Create reports for (general) linear models.

**Usage**

```
## S3 method for class 'lm'
report(x, include_effectsize = TRUE, effectsize_method = "refit", ...)

## S3 method for class 'lm'
report_effectsize(x, effectsize_method = "refit", ...)

## S3 method for class 'lm'
report_table(x, include_effectsize = TRUE, ...)

## S3 method for class 'lm'
report_statistics(
  x,
  table = NULL,
  include_effectsize = TRUE,
  include_diagnostic = TRUE,
  ...
)

## S3 method for class 'lm'
report_parameters(
  x,
  table = NULL,
  include_effectsize = TRUE,
  include_intercept = TRUE,
  ...
)

## S3 method for class 'lm'
report_intercept(x, table = NULL, ...)

## S3 method for class 'lm'
report_model(x, table = NULL, ...)

## S3 method for class 'lm'
report_performance(x, table = NULL, ...)

## S3 method for class 'lm'
report_info(
```

```

    x,
    effectsize = NULL,
    include_effectsize = FALSE,
    parameters = NULL,
    ...
)

## S3 method for class 'lm'
report_text(x, table = NULL, ...)

## S3 method for class 'merMod'
report_random(x, ...)

```

### Arguments

|                                 |                                                                                                      |
|---------------------------------|------------------------------------------------------------------------------------------------------|
| <code>x</code>                  | Object of class <code>lm</code> or <code>glm</code> .                                                |
| <code>include_effectsize</code> | If <code>FALSE</code> , won't include effect-size related indices (standardized coefficients, etc.). |
| <code>effectsize_method</code>  | See documentation for <a href="#">effectsize::effectsize()</a> .                                     |
| <code>...</code>                | Arguments passed to or from other methods.                                                           |
| <code>table</code>              | Provide the output of <code>report_table()</code> to avoid its re-computation.                       |
| <code>include_diagnostic</code> | If <code>FALSE</code> , won't include diagnostic related indices for Bayesian models (ESS, Rhat).    |
| <code>include_intercept</code>  | If <code>FALSE</code> , won't include the intercept.                                                 |
| <code>effectsize</code>         | Provide the output of <code>report_effectsize()</code> to avoid its re-computation.                  |
| <code>parameters</code>         | Provide the output of <code>report_parameters()</code> to avoid its re-computation.                  |

### Value

An object of class [report\(\)](#).

### See Also

Specific components of reports (especially for stats models):

- [report\\_table\(\)](#)
- [report\\_parameters\(\)](#)
- [report\\_statistics\(\)](#)
- [report\\_effectsize\(\)](#)
- [report\\_model\(\)](#)
- [report\\_priors\(\)](#)
- [report\\_random\(\)](#)

- `report_performance()`
- `report_info()`
- `report_text()`

Other types of reports:

- `report_system()`
- `report_packages()`
- `report_participants()`
- `report_sample()`
- `report_date()`

Methods:

- `as.report()`

Template file for supporting new models:

- `report.default()`

## Examples

```
library(report)

# Linear models
model <- lm(Sepal.Length ~ Petal.Length * Species, data = iris)
r <- report(model)
r
summary(r)
as.data.frame(r)
summary(as.data.frame(r))

# Logistic models
model <- glm(vs ~ disp, data = mtcars, family = "binomial")
r <- report(model)
r
summary(r)
as.data.frame(r)
summary(as.data.frame(r))

# Mixed models
library(lme4)
model <- lme4::lmer(Sepal.Length ~ Petal.Length + (1 | Species), data = iris)
r <- report(model)
r
summary(r)
as.data.frame(r)
summary(as.data.frame(r))
```

---

|                    |                                                      |
|--------------------|------------------------------------------------------|
| report.sessionInfo | <i>Report R environment (packages, system, etc.)</i> |
|--------------------|------------------------------------------------------|

---

## Description

Report R environment (packages, system, etc.)

## Usage

```
## S3 method for class 'sessionInfo'
report(x, ...)

report_packages(session = NULL, include_R = TRUE, ...)

cite_packages(session = NULL, include_R = TRUE, ...)

report_system(session = NULL)
```

## Arguments

|           |                                                                                |
|-----------|--------------------------------------------------------------------------------|
| x         | The R object that you want to report (see list of of supported objects above). |
| ...       | Arguments passed to or from other methods.                                     |
| session   | A <a href="#">sessionInfo</a> object.                                          |
| include_R | Include R in the citations.                                                    |

## Value

For report\_packages, a data frame of class with information on package name, version and citation.

An object of class [report\(\)](#).

## Examples

```
library(report)

session <- sessionInfo()

r <- report(session)
r
summary(r)
as.data.frame(r)
summary(as.data.frame(r))

# Convenience functions
report_packages(include_R = FALSE)
cite_packages(prefix = "> ")
report_system()
```

---

|                |                                  |
|----------------|----------------------------------|
| report.stanreg | <i>Reporting Bayesian Models</i> |
|----------------|----------------------------------|

---

**Description**

Create reports for Bayesian models. The description of the parameters follows the Sequential Effect eXistence and sIgnificance Testing framework (see [SEXIT documentation](#)).

**Usage**

```
## S3 method for class 'stanreg'  
report(x, ...)
```

**Arguments**

|     |                                                       |
|-----|-------------------------------------------------------|
| x   | Object of class <code>lm</code> or <code>glm</code> . |
| ... | Arguments passed to or from other methods.            |

**Value**

An object of class `report()`.

**See Also**

Specific components of reports (especially for stats models):

- `report_table()`
- `report_parameters()`
- `report_statistics()`
- `report_effectsize()`
- `report_model()`
- `report_priors()`
- `report_random()`
- `report_performance()`
- `report_info()`
- `report_text()`

Other types of reports:

- `report_system()`
- `report_packages()`
- `report_participants()`
- `report_sample()`
- `report_date()`

Methods:

- [as.report\(\)](#)

Template file for supporting new models:

- [report.default\(\)](#)

## Examples

```
# Bayesian models
library(rstanarm)
model <- suppressWarnings(stan_glm(mpg ~ qsec + wt, data = mtcars, refresh = 0, iter = 500))
r <- report(model)
r
summary(r)
as.data.frame(r)
```

---

report.test\_performance

*Reporting models comparison*

---

## Description

Create reports for model comparison as obtained by the [performance::compare\\_performance\(\)](#) function in the performance package.

## Usage

```
## S3 method for class 'test_performance'
report(x, ...)
```

```
## S3 method for class 'test_performance'
report_table(x, ...)
```

```
## S3 method for class 'test_performance'
report_statistics(x, table = NULL, ...)
```

```
## S3 method for class 'test_performance'
report_parameters(x, table = NULL, ...)
```

```
## S3 method for class 'test_performance'
report_text(x, table = NULL, ...)
```

**Arguments**

|                    |                                                                                |
|--------------------|--------------------------------------------------------------------------------|
| <code>x</code>     | Object of class <code>NEW OBJECT</code> .                                      |
| <code>...</code>   | Arguments passed to or from other methods.                                     |
| <code>table</code> | Provide the output of <code>report_table()</code> to avoid its re-computation. |

**Value**

An object of class `report()`.

**See Also**

Specific components of reports (especially for stats models):

- `report_table()`
- `report_parameters()`
- `report_statistics()`
- `report_effectsize()`
- `report_model()`
- `report_priors()`
- `report_random()`
- `report_performance()`
- `report_info()`
- `report_text()`

Other types of reports:

- `report_system()`
- `report_packages()`
- `report_participants()`
- `report_sample()`
- `report_date()`

Methods:

- `as.report()`

Template file for supporting new models:

- `report.default()`

**Examples**

```
library(report)
library(performance)

m1 <- lm(Sepal.Length ~ Petal.Length * Species, data = iris)
m2 <- lm(Sepal.Length ~ Petal.Length + Species, data = iris)
m3 <- lm(Sepal.Length ~ Petal.Length, data = iris)

x <- performance::test_performance(m1, m2, m3)
r <- report(x)
r
summary(r)
as.data.frame(r)
summary(as.data.frame(r))

# Specific reports
report_table(x)
report_statistics(x)
report_parameters(x)
```

---

report\_date

*Miscellaneous reports*


---

**Description**

Other convenient or totally useless reports.

**Usage**

```
report_date(...)
```

```
report_story(...)
```

**Arguments**

... Arguments passed to or from other methods.

**Value**

Objects of class `report_text()`.

**See Also**

Specific components of reports (especially for stats models):

- `report_table()`
- `report_parameters()`

- `report_statistics()`
- `report_effectsize()`
- `report_model()`
- `report_priors()`
- `report_random()`
- `report_performance()`
- `report_info()`
- `report_text()`

Other types of reports:

- `report_system()`
- `report_packages()`
- `report_participants()`
- `report_sample()`
- `report_date()`

Methods:

- `as.report()`

Template file for supporting new models:

- `report.default()`

## Examples

```
library(report)

report_date()
summary(report_date())
report_story()
```

---

|                   |                                                       |
|-------------------|-------------------------------------------------------|
| report_effectsize | <i>Report the effect size(s) of a model or a test</i> |
|-------------------|-------------------------------------------------------|

---

## Description

Computes, interpret and formats the effect sizes of a variety of models and statistical tests (see list of supported objects in `report()`).

## Usage

```
report_effectsize(x, ...)
```

**Arguments**

`x`                      The R object that you want to report (see list of supported objects above).  
`...`                    Arguments passed to or from other methods.

**Value**

An object of class `report_effectsize()`.

**Examples**

```
library(report)

# h-tests
report_effectsize(t.test(iris$Sepal.Width, iris$Sepal.Length))

# ANOVAs
report_effectsize(aov(Sepal.Length ~ Species, data = iris))

# GLMs
report_effectsize(lm(Sepal.Length ~ Petal.Length * Species, data = iris))
report_effectsize(glm(vs ~ disp, data = mtcars, family = "binomial"))

# Mixed models
library(lme4)
model <- lme4::lmer(Sepal.Length ~ Petal.Length + (1 | Species), data = iris)
report_effectsize(model)

# Bayesian models
library(rstanarm)
model <- suppressWarnings(stan_glm(Sepal.Length ~ Species, data = iris, refresh = 0, iter = 600))
report_effectsize(model, effectsize_method = "basic")
```

---

report\_info

---

*Report additional information*


---

**Description**

Reports additional information relevant to the report (see list of supported objects in `report()`).

**Usage**

```
report_info(x, ...)
```

**Arguments**

`x`                      The R object that you want to report (see list of of supported objects above).  
`...`                    Arguments passed to or from other methods.

**Value**

An object of class `report_info()`.

**Examples**

```
library(report)

# h-tests
report_info(t.test(iris$Sepal.Width, iris$Sepal.Length))

# ANOVAs
report_info(aov(Sepal.Length ~ Species, data = iris))

# GLMs
report_info(lm(Sepal.Length ~ Petal.Length * Species, data = iris))
report_info(lm(Sepal.Length ~ Petal.Length * Species, data = iris), include_effectsize = TRUE)
report_info(glm(vs ~ disp, data = mtcars, family = "binomial"))

# Mixed models
library(lme4)
model <- lme4::lmer(Sepal.Length ~ Petal.Length + (1 | Species), data = iris)
report_info(model)

# Bayesian models
library(rstanarm)
model <- suppressWarnings(stan_glm(Sepal.Length ~ Species, data = iris, refresh = 0, iter = 300))
report_info(model)
```

---

report\_intercept

*Report intercept*


---

**Description**

Reports intercept of regression models (see list of supported objects in `report()`).

**Usage**

```
report_intercept(x, ...)
```

**Arguments**

**x** The R object that you want to report (see list of supported objects above).

**...** Arguments passed to or from other methods.

**Value**

An object of class `report_intercept()`.

**Examples**

```
library(report)

# GLMs
report_intercept(lm(Sepal.Length ~ Species, data = iris))
report_intercept(glm(vs ~ disp, data = mtcars, family = "binomial"))

# Mixed models
library(lme4)
model <- lme4::lmer(Sepal.Length ~ Petal.Length + (1 | Species), data = iris)
report_intercept(model)

# Bayesian models
library(rstanarm)
model <- suppressWarnings(stan_glm(Sepal.Length ~ Species, data = iris, refresh = 0, iter = 600))
report_intercept(model)
```

---

|              |                              |
|--------------|------------------------------|
| report_model | <i>Report the model type</i> |
|--------------|------------------------------|

---

**Description**

Reports the type of different R objects (see list of supported objects in `report()`).

**Usage**

```
report_model(x, table = NULL, ...)
```

**Arguments**

|                    |                                                                                  |
|--------------------|----------------------------------------------------------------------------------|
| <code>x</code>     | The R object that you want to report (see list of supported objects above).      |
| <code>table</code> | A table obtained via <code>report_table()</code> . If not provided, will run it. |
| <code>...</code>   | Arguments passed to or from other methods.                                       |

**Value**

A character string.

**Examples**

```
library(report)

# h-tests
report_model(t.test(iris$Sepal.Width, iris$Sepal.Length))

# ANOVA
report_model(aov(Sepal.Length ~ Species, data = iris))

# GLMs
report_model(lm(Sepal.Length ~ Petal.Length * Species, data = iris))
report_model(glm(vs ~ disp, data = mtcars, family = "binomial"))

# Mixed models
library(lme4)
model <- lme4::lmer(Sepal.Length ~ Petal.Length + (1 | Species), data = iris)
report_model(model)

# Bayesian models
library(rstanarm)
model <- suppressWarnings(stan_glm(Sepal.Length ~ Species, data = iris, refresh = 0, iter = 600))
report_model(model)
```

---

|                   |                                         |
|-------------------|-----------------------------------------|
| report_parameters | <i>Report the parameters of a model</i> |
|-------------------|-----------------------------------------|

---

**Description**

Creates a list containing a description of the parameters of R objects (see list of supported objects in `report()`).

**Usage**

```
report_parameters(x, ...)
```

**Arguments**

|                  |                                                                             |
|------------------|-----------------------------------------------------------------------------|
| <code>x</code>   | The R object that you want to report (see list of supported objects above). |
| <code>...</code> | Arguments passed to or from other methods.                                  |

**Value**

A vector.

**Examples**

```
library(report)

# Miscellaneous
r <- report_parameters(sessionInfo())
r
summary(r)

# Data
report_parameters(iris$Sepal.Length)
report_parameters(as.character(round(iris$Sepal.Length, 1)))
report_parameters(iris$Species)
report_parameters(iris)

# h-tests
report_parameters(t.test(iris$Sepal.Width, iris$Sepal.Length))

# ANOVA
report_parameters(aov(Sepal.Length ~ Species, data = iris))

# GLMs
report_parameters(lm(Sepal.Length ~ Petal.Length * Species, data = iris))
report_parameters(lm(Petal.Width ~ Species, data = iris), include_intercept = FALSE)
report_parameters(glm(vs ~ disp, data = mtcars, family = "binomial"))

# Mixed models
library(lme4)
model <- lme4::lmer(Sepal.Length ~ Petal.Length + (1 | Species), data = iris)
report_parameters(model)

# Bayesian models
library(rstanarm)
```

```
model <- suppressWarnings(stan_glm(Sepal.Length ~ Species, data = iris, refresh = 0, iter = 600))
report_parameters(model)
```

---

report\_participants      *Reporting the participant data*

---

## Description

A helper function to help you format the participants data (age, sex, ...) in the participants section.

## Usage

```
report_participants(
  data,
  age = NULL,
  sex = NULL,
  gender = NULL,
  education = NULL,
  country = NULL,
  race = NULL,
  participants = NULL,
  by = NULL,
  spell_n = FALSE,
  digits = 1,
  threshold = 10,
  group = NULL,
  ...
)
```

## Arguments

|           |                                                                                                                                                                                                                                                                                                                                |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| data      | A data frame.                                                                                                                                                                                                                                                                                                                  |
| age       | The name of the column containing the age of the participant.                                                                                                                                                                                                                                                                  |
| sex       | The name of the column containing the sex of the participant. The classes should be one of <code>c("Male", "M", "Female", "F")</code> . Note that you can specify other characters here as well (e.g., "Intersex"), but the function will group all individuals in those groups as "Other".                                    |
| gender    | The name of the column containing the gender of the classes should be one of <code>c("Man", "M", "Male", "Woman", "W", "F", "Female", "Non-Binary", "N")</code> . Note that you can specify other characters here as well (e.g., "Gender Fluid"), but the function will group all individuals in those groups as "Non-Binary". |
| education | The name of the column containing education information.                                                                                                                                                                                                                                                                       |
| country   | The name of the column containing country information.                                                                                                                                                                                                                                                                         |
| race      | The name of the column containing race/ethnicity information.                                                                                                                                                                                                                                                                  |

|              |                                                                                                                                                          |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| participants | The name of the participants' identifier column (for instance in the case of repeated measures).                                                         |
| by           | A character vector indicating the name(s) of the column(s) used for stratified description.                                                              |
| spell_n      | Logical, fully spell the sample size ("Three participants" instead of "3 participants").                                                                 |
| digits       | Number of significant digits.                                                                                                                            |
| threshold    | Percentage after which to combine, e.g., countries (default is 10%, so countries that represent less than 10% will be combined in the "other" category). |
| group        | Deprecated. Use by instead.                                                                                                                              |
| ...          | Arguments passed to or from other methods.                                                                                                               |

### Value

A character vector with description of the "participants", based on the information provided in data.

### Examples

```
library(report)
data <- data.frame(
  "Age" = c(22, 23, 54, 21, 8, 42),
  "Sex" = c("Intersex", "F", "M", "M", "NA", NA),
  "Gender" = c("N", "W", "W", "M", "NA", NA)
)
report_participants(data, age = "Age", sex = "Sex")

# Years of education (relative to high school graduation)
data$Education <- c(0, 8, -3, -5, 3, 5)
report_participants(data,
  age = "Age", sex = "Sex", gender = "Gender",
  education = "Education"
)

# Education as factor
data$Education2 <- c(
  "Bachelor", "PhD", "Highschool",
  "Highschool", "Bachelor", "Bachelor"
)
report_participants(data, age = "Age", sex = "Sex", gender = "Gender", education = "Education2")

# Country
data <- data.frame(
  "Age" = c(22, 23, 54, 21, 8, 42, 18, 32, 24, 27, 45),
  "Sex" = c("Intersex", "F", "F", "M", "M", "M", "F", "F", "F", "F", "F"),
  "Gender" = c("N", "W", "W", "M", "M", "M", "W", "W", "W", "W", "W"),
  "Country" = c(
    "USA", NA, "Canada", "Canada", "India", "Germany",
    "USA", "USA", "USA", "USA", "Canada"
  )
)
report_participants(data)
```

```

# Country, control presentation threshold
report_participants(data, threshold = 5)

# Race/ethnicity
data <- data.frame(
  "Age" = c(22, 23, 54, 21, 8, 42, 18, 32, 24, 27, 45),
  "Sex" = c("Intersex", "F", "F", "M", "M", "M", "F", "F", "F", "F", "F"),
  "Gender" = c("N", "W", "W", "M", "M", "M", "W", "W", "W", "W", "W"),
  "Race" = c(
    "Black", NA, "White", "Asian", "Black", "Arab", "Black",
    "White", "Asian", "Southeast Asian", "Mixed"
  )
)
report_participants(data)

# Race/ethnicity, control presentation threshold
report_participants(data, threshold = 5)

# Repeated measures data
data <- data.frame(
  "Age" = c(22, 22, 54, 54, 8, 8),
  "Sex" = c("I", "F", "M", "M", "F", "F"),
  "Gender" = c("N", "W", "W", "M", "M", "M"),
  "Participant" = c("S1", "S1", "s2", "s2", "s3", "s3")
)
report_participants(data, age = "Age", sex = "Sex", gender = "Gender", participants = "Participant")

# Grouped data
data <- data.frame(
  "Age" = c(22, 22, 54, 54, 8, 8, 42, 42),
  "Sex" = c("I", "I", "M", "M", "F", "F", "F", "F"),
  "Gender" = c("N", "N", "W", "M", "M", "M", "Non-Binary", "Non-Binary"),
  "Participant" = c("S1", "S1", "s2", "s2", "s3", "s3", "s4", "s4"),
  "Condition" = c("A", "A", "A", "A", "B", "B", "B", "B")
)

report_participants(data,
  age = "Age",
  sex = "Sex",
  gender = "Gender",
  participants = "Participant",
  by = "Condition"
)

# Spell sample size
paste(
  report_participants(data, participants = "Participant", spell_n = TRUE),
  "were recruited in the study by means of torture and coercion."
)

```

---

|                    |                                                   |
|--------------------|---------------------------------------------------|
| report_performance | <i>Report the model's quality and fit indices</i> |
|--------------------|---------------------------------------------------|

---

### Description

Investigating the fit of statistical models to data often involves selecting the best fitting model amongst many competing models. This function helps report indices of model fit for various models. Reports the type of different R objects . For a list of supported objects, see [report\(\)](#).

### Usage

```
report_performance(x, table = NULL, ...)
```

### Arguments

|       |                                                                                     |
|-------|-------------------------------------------------------------------------------------|
| x     | The R object that you want to report (see list of supported objects above).         |
| table | A table obtained via <a href="#">report_table()</a> . If not provided, will run it. |
| ...   | Arguments passed to or from other methods.                                          |

### Value

An object of class [report\\_performance\(\)](#).

### Examples

```
# GLMs
report_performance(lm(Sepal.Length ~ Petal.Length * Species, data = iris))
report_performance(glm(vs ~ disp, data = mtcars, family = "binomial"))

# Mixed models
library(lme4)
model <- lme4::lmer(Sepal.Length ~ Petal.Length + (1 | Species), data = iris)
report_performance(model)

# Bayesian models
library(rstanarm)
model <- suppressWarnings(stan_glm(Sepal.Length ~ Species, data = iris, refresh = 0, iter = 600))
report_performance(model)

# Structural Equation Models (SEM)
```

```
library(lavaan)
structure <- "ind60 =~ x1 + x2 + x3
             dem60 =~ y1 + y2 + y3
             dem60 ~ ind60 "
model <- lavaan::sem(structure, data = PoliticalDemocracy)
suppressWarnings(report_performance(model))
```

---

|               |                                         |
|---------------|-----------------------------------------|
| report_priors | <i>Report priors of Bayesian models</i> |
|---------------|-----------------------------------------|

---

## Description

Reports priors of Bayesian models (see list of supported objects in [report\(\)](#)).

## Usage

```
report_priors(x, ...)
```

## Arguments

|     |                                                                             |
|-----|-----------------------------------------------------------------------------|
| x   | The R object that you want to report (see list of supported objects above). |
| ... | Arguments passed to or from other methods.                                  |

## Value

An object of class [report\\_priors\(\)](#).

## Examples

```
# Bayesian models
library(rstanarm)
model <- stan_glm(mpg ~ disp, data = mtcars, refresh = 0, iter = 1000)
r <- report_priors(model)
r
summary(r)
```

---

|               |                                          |
|---------------|------------------------------------------|
| report_random | <i>Report random effects and factors</i> |
|---------------|------------------------------------------|

---

**Description**

Reports random effects of mixed models (see list of supported objects in [report\(\)](#)).

**Usage**

```
report_random(x, ...)
```

**Arguments**

|                  |                                                                             |
|------------------|-----------------------------------------------------------------------------|
| <code>x</code>   | The R object that you want to report (see list of supported objects above). |
| <code>...</code> | Arguments passed to or from other methods.                                  |

**Value**

An object of class [report\\_random\(\)](#).

**Examples**

```
# Mixed models
library(lme4)
model <- lme4::lmer(Sepal.Length ~ Petal.Length + (1 | Species), data = iris)
r <- report_random(model)
r
summary(r)
```

```
# Bayesian models
library(rstanarm)
model <- suppressWarnings(stan_lmer(
  mpg ~ disp + (1 | cyl),
  data = mtcars, refresh = 0, iter = 1000
))
r <- report_random(model)
r
summary(r)
```

```
library(brms)
model <- suppressWarnings(brm(mpg ~ disp + (1 | cyl), data = mtcars, refresh = 0, iter = 1000))
r <- report_random(model)
```

```
r  
summary(r)
```

---

|          |                                                 |
|----------|-------------------------------------------------|
| report_s | <i>Report S- and p-values in easy language.</i> |
|----------|-------------------------------------------------|

---

### Description

Reports interpretation of S- and p-values in easy language.

### Usage

```
report_s(s = NULL, p = NULL, test_value = 0, test_parameter = "parameter")
```

### Arguments

|                |                                                            |
|----------------|------------------------------------------------------------|
| s              | An S-value. Either s or p must be provided.                |
| p              | A p-value. Either s or p must be provided.                 |
| test_value     | The value of the test parameter under the null hypothesis. |
| test_parameter | The name of the test parameter under the null hypothesis.  |

### Value

A string with the interpretation of the S- or p-value.

### Examples

```
report_s(s = 1.5)  
report_s(p = 0.05)
```

---

|               |                           |
|---------------|---------------------------|
| report_sample | <i>Sample Description</i> |
|---------------|---------------------------|

---

### Description

Create sample description table (also referred to as "Table 1").

**Usage**

```
report_sample(
  data,
  by = NULL,
  centrality = "mean",
  ci = NULL,
  ci_method = "wilson",
  ci_correct = FALSE,
  select = NULL,
  exclude = NULL,
  weights = NULL,
  total = TRUE,
  digits = 2,
  n = FALSE,
  group_by = NULL,
  ...
)
```

**Arguments**

|            |                                                                                                                                                                                                                                                                                                                                       |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| data       | A data frame for which descriptive statistics should be created.                                                                                                                                                                                                                                                                      |
| by         | Character vector, indicating the column(s) for possible grouping of the descriptive table. Note that weighting (see <code>weights</code> ) does not work with more than one grouping column.                                                                                                                                          |
| centrality | Character, indicates the statistics that should be calculated for numeric variables. May be "mean" (for mean and standard deviation) or "median" (for median and median absolute deviation) as summary.                                                                                                                               |
| ci         | Level of confidence interval for relative frequencies (proportions). If not NULL, confidence intervals are shown for proportions of factor levels.                                                                                                                                                                                    |
| ci_method  | Character, indicating the method how to calculate confidence intervals for proportions. Currently implemented methods are "wald" and "wilson". Note that "wald" can produce intervals outside the plausible range of [0, 1], and thus it is recommended to prefer the "wilson" method. The formulae for the confidence intervals are: |

- "wald":

$$p \pm z \sqrt{\frac{p(1-p)}{n}}$$

- "wilson":

$$\frac{2np + z^2 \pm z \sqrt{z^2 + 4npq}}{2(n + z^2)}$$

where  $p$  is the proportion (of a factor level),  $q$  is  $1-p$ ,  $z$  is the critical  $z$ -score based on the interval level and  $n$  is the length of the vector (cf. *Newcombe 1998, Wilson 1927*).

|            |                                                                                                                                           |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| ci_correct | Logical, if TRUE, applies continuity correction. See <i>Newcombe 1998</i> for different correction-methods based on the chosen ci_method. |
| select     | Character vector, with column names that should be included in the descriptive table.                                                     |
| exclude    | Character vector, with column names that should be excluded from the descriptive table.                                                   |
| weights    | Character vector, indicating the name of a potential weight-variable. Reported descriptive statistics will be weighted by weight.         |
| total      | Add a Total column.                                                                                                                       |
| digits     | Number of decimals.                                                                                                                       |
| n          | Logical, actual sample size used in the calculation of the reported descriptive statistics (i.e., without the missing values).            |
| group_by   | Deprecated. Use by instead.                                                                                                               |
| ...        | Arguments passed to or from other methods.                                                                                                |

### Value

A data frame of class `report_sample` with variable names and their related summary statistics.

### References

- Newcombe, R. G. (1998). Two-sided confidence intervals for the single proportion: comparison of seven methods. *Statistics in Medicine*. 17 (8): 857–872
- Wilson, E. B. (1927). Probable inference, the law of succession, and statistical inference. *Journal of the American Statistical Association*. 22 (158): 209–212

### Examples

```
library(report)

report_sample(iris[, 1:4])
report_sample(iris, select = c("Sepal.Length", "Petal.Length", "Species"))
report_sample(iris, by = "Species")
report_sample(airquality, by = "Month", n = TRUE, total = FALSE)

# confidence intervals for proportions
set.seed(123)
d <- data.frame(x = factor(sample(letters[1:3], 100, TRUE, c(0.01, 0.39, 0.6))))
report_sample(d, ci = 0.95, ci_method = "wald") # ups, negative CI
report_sample(d, ci = 0.95, ci_method = "wilson") # negative CI fixed
report_sample(d, ci = 0.95, ci_correct = TRUE) # continuity correction
```

---

|                   |                                         |
|-------------------|-----------------------------------------|
| report_statistics | <i>Report the statistics of a model</i> |
|-------------------|-----------------------------------------|

---

### Description

Creates a list containing a description of the parameters' values of R objects (see list of supported objects in [report\(\)](#)). Useful to insert in parentheses in plots or reports.

### Usage

```
report_statistics(x, table = NULL, ...)
```

### Arguments

|       |                                                                                     |
|-------|-------------------------------------------------------------------------------------|
| x     | The R object that you want to report (see list of supported objects above).         |
| table | A table obtained via <a href="#">report_table()</a> . If not provided, will run it. |
| ...   | Arguments passed to or from other methods.                                          |

### Value

An object of class [report\\_statistics\(\)](#).

### Examples

```
library(report)

# Data
report_statistics(iris$Sepal.Length)
report_statistics(as.character(round(iris$Sepal.Length, 1)))
report_statistics(iris$Species)
report_statistics(iris)

# h-tests
report_statistics(t.test(iris$Sepal.Width, iris$Sepal.Length))

# ANOVA
report_statistics(aov(Sepal.Length ~ Species, data = iris))

# GLMs
report_statistics(lm(Sepal.Length ~ Petal.Length * Species, data = iris))
report_statistics(glm(vs ~ disp, data = mtcars, family = "binomial"))

# Mixed models
library(lme4)
model <- lme4::lmer(Sepal.Length ~ Petal.Length + (1 | Species), data = iris)
report_statistics(model)
```

```
# Bayesian models
library(rstanarm)
model <- suppressWarnings(stan_glm(Sepal.Length ~ Species, data = iris, refresh = 0, iter = 600))
report_statistics(model)
```

---

|              |                                   |
|--------------|-----------------------------------|
| report_table | <i>Report a descriptive table</i> |
|--------------|-----------------------------------|

---

## Description

Creates tables to describe different objects (see list of supported objects in [report\(\)](#)).

## Usage

```
report_table(x, ...)
```

## Arguments

|     |                                                                             |
|-----|-----------------------------------------------------------------------------|
| x   | The R object that you want to report (see list of supported objects above). |
| ... | Arguments passed to or from other methods.                                  |

## Value

An object of class [report\\_table\(\)](#).

## Examples

```
# Miscellaneous
r <- report_table(sessionInfo())
r
summary(r)

# Data
report_table(iris$Sepal.Length)
report_table(as.character(round(iris$Sepal.Length, 1)))
report_table(iris$Species)
report_table(iris)

# h-tests
report_table(t.test(mtcars$mpg ~ mtcars$am))

# ANOVAs
report_table(aov(Sepal.Length ~ Species, data = iris))
```

```

# GLMs
report_table(lm(Sepal.Length ~ Petal.Length * Species, data = iris))
report_table(glm(vs ~ disp, data = mtcars, family = "binomial"))

# Mixed models
library(lme4)
model <- lme4::lmer(Sepal.Length ~ Petal.Length + (1 | Species), data = iris)
report_table(model)

# Bayesian models
library(rstanarm)
model <- suppressWarnings(stan_glm(Sepal.Length ~ Species, data = iris, refresh = 0, iter = 600))
report_table(model, effectsize_method = "basic")

# Structural Equation Models (SEM)
library(lavaan)
structure <- "ind60 =~ x1 + x2 + x3
              dem60 =~ y1 + y2 + y3
              dem60 ~ ind60"
model <- lavaan::sem(structure, data = PoliticalDemocracy)
suppressWarnings(report_table(model))

```

---

report\_text

---

*Report a textual description of an object*


---

## Description

Creates text containing a description of the parameters of R objects (see list of supported objects in [report\(\)](#)).

## Usage

```
report_text(x, table = NULL, ...)
```

## Arguments

|       |                                                                                  |
|-------|----------------------------------------------------------------------------------|
| x     | The R object that you want to report (see list of supported objects above).      |
| table | A table obtained via <code>report_table()</code> . If not provided, will run it. |
| ...   | Arguments passed to or from other methods.                                       |

**Value**

An object of class `report_text()`.

**Examples**

```
library(report)

# Miscellaneous
r <- report_text(sessionInfo())
r
summary(r)

# Data
report_text(iris$Sepal.Length)
report_text(as.character(round(iris$Sepal.Length, 1)))
report_text(iris$Species)
report_text(iris)

# h-tests
report_text(t.test(iris$Sepal.Width, iris$Sepal.Length))

# ANOVA
r <- report_text(aov(Sepal.Length ~ Species, data = iris))
r
summary(r)

# GLMs
r <- report_text(lm(Sepal.Length ~ Petal.Length * Species, data = iris))
r
summary(r)

library(lme4)
model <- lme4::lmer(Sepal.Length ~ Petal.Length + (1 | Species), data = iris)
r <- report_text(model)
r
summary(r)

# Bayesian models
library(rstanarm)
model <- suppressWarnings(stan_glm(mpg ~ cyl + wt, data = mtcars, refresh = 0, iter = 600))
r <- report_text(model)
r
summary(r)
```

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