

# Package ‘radiant.basics’

July 18, 2017

**Type** Package

**Title** Basics Menu for Radiant: Business Analytics using R and Shiny

**Version** 0.8.7.1

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**Description** The Radiant Basics menu includes interfaces for probability calculation, central limit theorem simulation, comparing means and proportions, goodness-of-fit testing, cross-tabs, and correlation. The application extends the functionality in radiant.data.

**Depends** R (>= 3.3.0),  
radiant.data (>= 0.8.7.1)

**Imports** ggplot2 (>= 2.1.0),  
gridExtra (>= 2.0.0),  
scales (>= 0.4.0),  
dplyr (>= 0.7.1),  
tidyr (>= 0.6),  
magrittr (>= 1.5),  
shiny (>= 1.0.3),  
psych (>= 1.6.6),  
import (>= 1.1.0),  
methods

**Suggests** testthat (>= 1.0.0)

**URL** <https://github.com/radiant-rstats/radiant.basics>, <https://radiant-rstats.github.io/docs>

**BugReports** <https://github.com/radiant-rstats/radiant.basics/issues>

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**LazyData** true

**RoxygenNote** 6.0.1

## R topics documented:

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---

|               |  |
|---------------|--|
| compare_means | <i>Compare means for two or more variables</i> |
|---------------|--|

---

## Description

Compare means for two or more variables

## Usage

```
compare_means(dataset, var1, var2, samples = "independent",
  alternative = "two.sided", conf_lev = 0.95, comb = "",
  adjust = "none", test = "t", data_filter = "")
```

## Arguments

|             |  |
|-------------|--|
| dataset     | Dataset name (string). This can be a dataframe in the global environment or an element in an <code>r_data</code> list from Radiant   |
| var1        | A numeric variable or factor selected for comparison   |
| var2        | One or more numeric variables for comparison. If var1 is a factor only one variable can be selected and the mean of this variable is compared across (factor) levels of var1 |
| samples     | Are samples independent ("independent") or not ("paired")  |
| alternative | The alternative hypothesis ("two.sided", "greater" or "less")  |
| conf_lev    | Span of the confidence interval  |
| comb        | Combinations to evaluate   |
| adjust      | Adjustment for multiple comparisons ("none" or "bonf" for Bonferroni)  |
| test        | t-test ("t") or Wilcoxon ("wilcox")  |
| data_filter | Expression entered in, e.g., Data > View to filter the dataset in Radiant. The expression should be a string (e.g., "price > 10000")   |

## Details

See [https://radiant-rstats.github.io/docs/basics/compare\\_means.html](https://radiant-rstats.github.io/docs/basics/compare_means.html) for an example in Radiant

## Value

A list of all variables defined in the function as an object of class `compare_means`

## See Also

`summary.compare_means` to summarize results  
`plot.compare_means` to plot results

## Examples

```
result <- compare_means("diamonds", "cut", "price")
result <- diamonds %>% compare_means("cut", "price")
```

---

|               |  |
|---------------|--|
| compare_props | <i>Compare proportions across groups</i> |
|---------------|--|

---

## Description

Compare proportions across groups

## Usage

```
compare_props(dataset, var1, var2, lev = "", alternative = "two.sided",  
  conf_lev = 0.95, comb = "", adjust = "none", data_filter = "")
```

## Arguments

|             |  |
|-------------|--|
| dataset     | Dataset name (string). This can be a dataframe in the global environment or an element in an <code>r_data</code> list from Radiant   |
| var1        | A grouping variable to split the data for comparisons  |
| var2        | The variable to calculate proportions for  |
| levs        | The factor level selected for the proportion comparison  |
| alternative | The alternative hypothesis ("two.sided", "greater" or "less")  |
| conf_lev    | Span of the confidence interval  |
| comb        | Combinations to evaluate   |
| adjust      | Adjustment for multiple comparisons ("none" or "bonf" for Bonferroni)  |
| data_filter | Expression entered in, e.g., Data > View to filter the dataset in Radiant. The expression should be a string (e.g., "price > 10000") |

## Details

See [https://radiant-rstats.github.io/docs/basics/compare\\_props.html](https://radiant-rstats.github.io/docs/basics/compare_props.html) for an example in Radiant

## Value

A list of all variables defined in the function as an object of class `compare_props`

## See Also

[summary.compare\\_props](#) to summarize results

[plot.compare\\_props](#) to plot results

## Examples

```
result <- compare_props("titanic", "pclass", "survived")  
result <- titanic %>% compare_props("pclass", "survived")
```

---

|          |                                |
|----------|--------------------------------|
| consider | <i>Car brand consideration</i> |
|----------|--------------------------------|

---

**Description**

Car brand consideration

**Usage**

```
data(consider)
```

**Format**

A data frame with 1000 rows and 2 variables

**Details**

Survey data of consumer purchase intentions. Description provided in `attr(consider,"description")`

---

|             |   |
|-------------|---|
| correlation | <i>Calculate correlations for two or more variables</i> |
|-------------|---|

---

**Description**

Calculate correlations for two or more variables

**Usage**

```
correlation(dataset, vars = "", method = "pearson", data_filter = "")
```

**Arguments**

|             |  |
|-------------|--|
| dataset     | Dataset name (string). This can be a dataframe in the global environment or an element in an <code>r_data</code> list from Radiant                   |
| vars        | Variables to include in the analysis. Default is all but character and factor variables with more than two unique values are removed                 |
| method      | Type of correlations to calculate. Options are "pearson", "spearman", and "kendall". "pearson" is the default  |
| data_filter | Expression entered in, e.g., <code>Data &gt; View</code> to filter the dataset in Radiant. The expression should be a string (e.g., "price > 10000") |

**Details**

See <https://radiant-rstats.github.io/docs/basics/correlation.html> for an example in Radiant

**Value**

A list with all variables defined in the function as an object of class `compare_means`

**See Also**

[summary.correlation](#) to summarize results

[plot.correlation](#) to plot results

**Examples**

```
result <- correlation("diamonds", c("price","carat"))
result <- correlation("diamonds", c("price","carat","table"))
result <- correlation("diamonds", "price:carat")
result <- diamonds %>% correlation("price:carat")
```

---

cross\_tabs

*Evaluate associations between categorical variables*

---

**Description**

Evaluate associations between categorical variables

**Usage**

```
cross_tabs(dataset, var1, var2, tab = NULL, data_filter = "")
```

**Arguments**

|             |  |
|-------------|--|
| dataset     | Dataset name (string). This can be a dataframe in the global environment or an element in an <code>r_data</code> list from Radiant   |
| var1        | A categorical variable   |
| var2        | Another categorical variable   |
| tab         | Table with frequencies as alternative to dataset   |
| data_filter | Expression entered in, e.g., Data > View to filter the dataset in Radiant. The expression should be a string (e.g., "price > 10000") |

**Details**

See [https://radiant-rstats.github.io/docs/basics/cross\\_tabs.html](https://radiant-rstats.github.io/docs/basics/cross_tabs.html) for an example in Radiant

**Value**

A list of all variables used in `cross_tabs` as an object of class `cross_tabs`

**See Also**

[summary.cross\\_tabs](#) to summarize results

[plot.cross\\_tabs](#) to plot results

**Examples**

```
result <- cross_tabs("newspaper", "Income", "Newspaper")
result <- newspaper %>% cross_tabs("Income", "Newspaper")
```

---

|           |                         |
|-----------|-------------------------|
| demand_uk | <i>Demand in the UK</i> |
|-----------|-------------------------|

---

**Description**

Demand in the UK

**Usage**

```
data(demand_uk)
```

**Format**

A data frame with 1000 rows and 2 variables

**Details**

Survey data of consumer purchase intentions. Description provided in `attr(demand_uk,"description")`

---

|          |  |
|----------|--|
| goodness | <i>Evaluate if sample data for a categorical variable is consistent with a hypothesized distribution</i> |
|----------|--|

---

**Description**

Evaluate if sample data for a categorical variable is consistent with a hypothesized distribution

**Usage**

```
goodness(dataset, var, p = NULL, tab = NULL, data_filter = "")
```

**Arguments**

|             |   |
|-------------|---|
| dataset     | Dataset name (string). This can be a dataframe in the global environment or an element in an <code>r_data</code> list from Radiant                                    |
| var         | A categorical variable  |
| p           | Hypothesized distribution as a number, fraction, or numeric vector. If unspecified, defaults to an even distribution  |
| tab         | Table with frequencies as alternative to dataset  |
| data_filter | Expression entered in, e.g., <code>Data &gt; View</code> to filter the dataset in Radiant. The expression should be a string (e.g., <code>"price &gt; 10000"</code> ) |

**Details**

See <https://radiant-rstats.github.io/docs/basics/goodness.html> for an example in Radiant

**Value**

A list of all variables used in `goodness` as an object of class `goodness`

**See Also**

[summary.goodness](#) to summarize results

[plot.goodness](#) to plot results

**Examples**

```
result <- goodness("newspaper", "Income")
```

---

|           |                             |
|-----------|-----------------------------|
| newspaper | <i>Newspaper readership</i> |
|-----------|-----------------------------|

---

**Description**

Newspaper readership

**Usage**

```
data(newspaper)
```

**Format**

A data frame with 580 rows and 2 variables

**Details**

Newspaper readership data for 580 consumers. Description provided in attr(newspaper,"description")

---

|                    |   |
|--------------------|---|
| plot.compare_means | <i>Plot method for the compare_means function</i> |
|--------------------|---|

---

**Description**

Plot method for the compare\_means function

**Usage**

```
## S3 method for class 'compare_means'
plot(x, plots = "scatter", shiny = FALSE,
     custom = FALSE, ...)
```

**Arguments**

|        |   |
|--------|---|
| x      | Return value from <a href="#">compare_means</a>   |
| plots  | One or more plots ("bar", "density", "box", or "scatter")   |
| shiny  | Did the function call originate inside a shiny app  |
| custom | Logical (TRUE, FALSE) to indicate if ggplot object (or list of ggplot objects) should be returned. This option can be used to customize plots (e.g., add a title, change x and y labels, etc.). See examples and <a href="http://docs.ggplot2.org/">http://docs.ggplot2.org/</a> for options. |
| ...    | further arguments passed to or from other methods   |



**Details**

See [https://radiant-rstats.github.io/docs/basics/compare\\_means.html](https://radiant-rstats.github.io/docs/basics/compare_means.html) for an example in Radiant

**See Also**

[compare\\_means](#) to calculate results

[summary.compare\\_means](#) to summarize results

**Examples**

```
result <- compare_means("diamonds", "cut", "price")
plot(result, plots = c("bar", "density"))
```

---

|                    |   |
|--------------------|---|
| plot.compare_props | <i>Plot method for the compare_props function</i> |
|--------------------|---|

---

**Description**

Plot method for the compare\_props function

**Usage**

```
## S3 method for class 'compare_props'
plot(x, plots = "bar", shiny = FALSE,
     custom = FALSE, ...)
```

**Arguments**

|        |   |
|--------|---|
| x      | Return value from <a href="#">compare_props</a>   |
| plots  | One or more plots of proportions ("bar" or "dodge")   |
| shiny  | Did the function call originate inside a shiny app  |
| custom | Logical (TRUE, FALSE) to indicate if ggplot object (or list of ggplot objects) should be returned. This option can be used to customize plots (e.g., add a title, change x and y labels, etc.). See examples and <a href="http://docs.ggplot2.org/">http://docs.ggplot2.org/</a> for options. |
| ...    | further arguments passed to or from other methods   |

**Details**

See [https://radiant-rstats.github.io/docs/basics/compare\\_props.html](https://radiant-rstats.github.io/docs/basics/compare_props.html) for an example in Radiant

**See Also**

[compare\\_props](#) to calculate results

[summary.compare\\_props](#) to summarize results

**Examples**

```
result <- compare_props("titanic", "pclass", "survived")
plot(result, plots = c("bar", "dodge"))
```

---

|                  |   |
|------------------|---|
| plot.correlation | <i>Plot method for the correlation function</i> |
|------------------|---|

---

**Description**

Plot method for the correlation function

**Usage**

```
## S3 method for class 'correlation'
plot(x, n = 1000, jit = 0.3, ...)
```

**Arguments**

|     |   |
|-----|---|
| x   | Return value from <a href="#">correlation</a>   |
| n   | Number of datapoints to use in the plot (1,000 is default). Use -1 for all observations |
| jit | Level of jittering to apply to scatter plot. Default is .3. Use 0 for no jittering      |
| ... | further arguments passed to or from other methods.                                      |

**Details**

See <https://radiant-rstats.github.io/docs/basics/correlation.html> for an example in Radiant

**See Also**

[correlation](#) to calculate results  
[summary.correlation](#) to summarize results

**Examples**

```
result <- correlation("diamonds", c("price", "carat", "table"))
plot(result)
diamonds %>% correlation("price:carat") %>% plot
```

---

|                 |  |
|-----------------|--|
| plot.cross_tabs | <i>Plot method for the cross_tabs function</i> |
|-----------------|--|

---

## Description

Plot method for the cross\_tabs function

## Usage

```
## S3 method for class 'cross_tabs'
plot(x, check = "", shiny = FALSE, custom = FALSE,
     ...)
```

## Arguments

|        |   |
|--------|---|
| x      | Return value from <a href="#">cross_tabs</a>  |
| check  | Show plots for variables var1 and var2. "observed" for the observed frequencies table, "expected" for the expected frequencies table (i.e., frequencies that would be expected if the null hypothesis holds), "chi_sq" for the contribution to the overall chi-squared statistic for each cell (i.e., $(o - e)^2 / e$ ), "dev_std" for the standardized differences between the observed and expected frequencies (i.e., $(o - e) / \sqrt{e}$ ), and "row_perc", "col_perc", and "perc" for row, column, and table percentages respectively |
| shiny  | Did the function call originate inside a shiny app  |
| custom | Logical (TRUE, FALSE) to indicate if ggplot object (or list of ggplot objects) should be returned. This option can be used to customize plots (e.g., add a title, change x and y labels, etc.). See examples and <a href="http://docs.ggplot2.org/">http://docs.ggplot2.org/</a> for options.   |
| ...    | further arguments passed to or from other methods   |

## Details

See [https://radiant-rstats.github.io/docs/basics/cross\\_tabs.html](https://radiant-rstats.github.io/docs/basics/cross_tabs.html) for an example in Radiant

## See Also

[cross\\_tabs](#) to calculate results  
[summary.cross\\_tabs](#) to summarize results

## Examples

```
result <- cross_tabs("newspaper", "Income", "Newspaper")
plot(result, check = c("observed", "expected", "chi_sq"))
newspaper %>% cross_tabs("Income", "Newspaper") %>% plot(c("observed", "expected"))
```

---

|               |  |
|---------------|--|
| plot.goodness | <i>Plot method for the goodness function</i> |
|---------------|--|

---

## Description

Plot method for the goodness function

## Usage

```
## S3 method for class 'goodness'
plot(x, check = "", fillcol = "blue", shiny = FALSE,
     custom = FALSE, ...)
```

## Arguments

|         |  |
|---------|--|
| x       | Return value from <a href="#">goodness</a>   |
| check   | Show plots for variable var. "observed" for the observed frequencies table, "expected" for the expected frequencies table (i.e., frequencies that would be expected if the null hypothesis holds), "chi_sq" for the contribution to the overall chi-squared statistic for each cell (i.e., $(o - e)^2 / e$ ), and "dev_std" for the standardized differences between the observed and expected frequencies (i.e., $(o - e) / \sqrt{e}$ ) |
| fillcol | Color used for bar plots   |
| shiny   | Did the function call originate inside a shiny app   |
| custom  | Logical (TRUE, FALSE) to indicate if ggplot object (or list of ggplot objects) should be returned. This option can be used to customize plots (e.g., add a title, change x and y labels, etc.). See examples and <a href="http://docs.ggplot2.org/">http://docs.ggplot2.org/</a> for options.  |
| ...     | further arguments passed to or from other methods  |

## Details

See <https://radiant-rstats.github.io/docs/basics/goodness> for an example in Radiant

## See Also

[goodness](#) to calculate results  
[summary.goodness](#) to summarize results

## Examples

```
result <- goodness("newspaper", "Income")
plot(result, check = c("observed", "expected", "chi_sq"))
newspaper %>% goodness("Income") %>% plot(c("observed", "expected"))
```

---

|                 |   |
|-----------------|---|
| plot.prob_binom | <i>Plot method for the probability calculator function (binomial)</i> |
|-----------------|---|

---

**Description**

Plot method for the probability calculator function (binomial)

**Usage**

```
## S3 method for class 'prob_binom'  
plot(x, type = "values", ...)
```

**Arguments**

|      |   |
|------|---|
| x    | Return value from <a href="#">prob_binom</a>      |
| type | Probabilities or values                           |
| ...  | further arguments passed to or from other methods |

**Details**

See [https://radiant-rstats.github.io/docs/basics/prob\\_calc.html](https://radiant-rstats.github.io/docs/basics/prob_calc.html) for an example in Radiant

---

|                 |  |
|-----------------|--|
| plot.prob_chisq | <i>Plot method for the probability calculator (Chi-squared distribution)</i> |
|-----------------|--|

---

**Description**

Plot method for the probability calculator (Chi-squared distribution)

**Usage**

```
## S3 method for class 'prob_chisq'  
plot(x, type = "values", ...)
```

**Arguments**

|      |   |
|------|---|
| x    | Return value from <a href="#">prob_chisq</a>      |
| type | Probabilities or values                           |
| ...  | further arguments passed to or from other methods |

**Details**

See [https://radiant-rstats.github.io/docs/basics/prob\\_calc.html](https://radiant-rstats.github.io/docs/basics/prob_calc.html) for an example in Radiant

---

|                |   |
|----------------|---|
| plot.prob_disc | <i>Plot method for the probability calculator function (discrete)</i> |
|----------------|---|

---

**Description**

Plot method for the probability calculator function (discrete)

**Usage**

```
## S3 method for class 'prob_disc'
plot(x, type = "values", ...)
```

**Arguments**

|      |   |
|------|---|
| x    | Return value from <a href="#">prob_disc</a>       |
| type | Probabilities or values                           |
| ...  | further arguments passed to or from other methods |

**Details**

See [https://radiant-rstats.github.io/docs/basics/prob\\_calc.html](https://radiant-rstats.github.io/docs/basics/prob_calc.html) for an example in Radian

**Examples**

```
result <- prob_disc(v = "5 6 7 8 9 10 11 ", p = ".1 .2 .3 .15 .1 .1 .05", pub = 0.95)
plot(result, type = "probs")
```

---

|                |  |
|----------------|--|
| plot.prob_expo | <i>Plot method for the probability calculator (Exponential distribution)</i> |
|----------------|--|

---

**Description**

Plot method for the probability calculator (Exponential distribution)

**Usage**

```
## S3 method for class 'prob_expo'
plot(x, type = "values", ...)
```

**Arguments**

|      |   |
|------|---|
| x    | Return value from <a href="#">prob_expo</a>       |
| type | Probabilities or values                           |
| ...  | further arguments passed to or from other methods |

**Details**

See [https://radiant-rstats.github.io/docs/basics/prob\\_calc.html](https://radiant-rstats.github.io/docs/basics/prob_calc.html) for an example in Radian

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|                 |  |
|-----------------|--|
| plot.prob_fdist | <i>Plot method for the probability calculator (F-distribution)</i> |
|-----------------|--|

---

**Description**

Plot method for the probability calculator (F-distribution)

**Usage**

```
## S3 method for class 'prob_fdist'  
plot(x, type = "values", ...)
```

**Arguments**

|      |   |
|------|---|
| x    | Return value from <a href="#">prob_fdist</a>      |
| type | Probabilities or values                           |
| ...  | further arguments passed to or from other methods |

**Details**

See [https://radiant-rstats.github.io/docs/basics/prob\\_calc.html](https://radiant-rstats.github.io/docs/basics/prob_calc.html) for an example in Radiant

---

|                |  |
|----------------|--|
| plot.prob_norm | <i>Plot method for the probability calculator (normal)</i> |
|----------------|--|

---

**Description**

Plot method for the probability calculator (normal)

**Usage**

```
## S3 method for class 'prob_norm'  
plot(x, type = "values", ...)
```

**Arguments**

|      |   |
|------|---|
| x    | Return value from <a href="#">prob_norm</a>       |
| type | Probabilities or values                           |
| ...  | further arguments passed to or from other methods |

**Details**

See [https://radiant-rstats.github.io/docs/basics/prob\\_calc.html](https://radiant-rstats.github.io/docs/basics/prob_calc.html) for an example in Radiant

---

|                |   |
|----------------|---|
| plot.prob_pois | <i>Plot method for the probability calculator function (Poisson distribution)</i> |
|----------------|---|

---

### Description

Plot method for the probability calculator function (Poisson distribution)

### Usage

```
## S3 method for class 'prob_pois'
plot(x, type = "values", ...)
```

### Arguments

|      |   |
|------|---|
| x    | Return value from <a href="#">prob_pois</a>       |
| type | Probabilities or values                           |
| ...  | further arguments passed to or from other methods |

### Details

See [https://radiant-rstats.github.io/docs/basics/prob\\_calc.html](https://radiant-rstats.github.io/docs/basics/prob_calc.html) for an example in Radian

---

|                 |  |
|-----------------|--|
| plot.prob_tdist | <i>Plot method for the probability calculator (t-distribution)</i> |
|-----------------|--|

---

### Description

Plot method for the probability calculator (t-distribution)

### Usage

```
## S3 method for class 'prob_tdist'
plot(x, type = "values", ...)
```

### Arguments

|      |   |
|------|---|
| x    | Return value from <a href="#">prob_tdist</a>      |
| type | Probabilities or values                           |
| ...  | further arguments passed to or from other methods |

### Details

See [https://radiant-rstats.github.io/docs/basics/prob\\_calc.html](https://radiant-rstats.github.io/docs/basics/prob_calc.html) for an example in Radian



---

|                |   |
|----------------|---|
| plot.prob_unif | <i>Plot method for the probability calculator (uniform)</i> |
|----------------|---|

---

**Description**

Plot method for the probability calculator (uniform)

**Usage**

```
## S3 method for class 'prob_unif'
plot(x, type = "values", ...)
```

**Arguments**

|      |   |
|------|---|
| x    | Return value from <a href="#">prob_unif</a>       |
| type | Probabilities or values                           |
| ...  | further arguments passed to or from other methods |

**Details**

See [https://radiant-rstats.github.io/docs/basics/prob\\_calc.html](https://radiant-rstats.github.io/docs/basics/prob_calc.html) for an example in Radiant

---

|                  |   |
|------------------|---|
| plot.single_mean | <i>Plot method for the single_mean function</i> |
|------------------|---|

---

**Description**

Plot method for the single\_mean function

**Usage**

```
## S3 method for class 'single_mean'
plot(x, plots = "hist", shiny = FALSE,
     custom = FALSE, ...)
```

**Arguments**

|        |   |
|--------|---|
| x      | Return value from <a href="#">single_mean</a>   |
| plots  | Plots to generate. "hist" shows a histogram of the data along with vertical lines that indicate the sample mean and the confidence interval. "simulate" shows the location of the sample mean and the comparison value (comp_value). Simulation is used to demonstrate the sampling variability in the data under the null-hypothesis |
| shiny  | Did the function call originate inside a shiny app  |
| custom | Logical (TRUE, FALSE) to indicate if ggplot object (or list of ggplot objects) should be returned. This option can be used to customize plots (e.g., add a title, change x and y labels, etc.). See examples and <a href="http://docs.ggplot2.org/">http://docs.ggplot2.org/</a> for options.   |
| ...    | further arguments passed to or from other methods   |

**Details**

See [https://radiant-rstats.github.io/docs/basics/single\\_mean.html](https://radiant-rstats.github.io/docs/basics/single_mean.html) for an example in Radiant

**See Also**

[single\\_mean](#) to generate the result  
[summary.single\\_mean](#) to summarize results

**Examples**

```
result <- single_mean("diamonds", "price", comp_value = 3500)
plot(result, plots = c("hist", "simulate"))
```

---

|                  |   |
|------------------|---|
| plot.single_prop | <i>Plot method for the single_prop function</i> |
|------------------|---|

---

**Description**

Plot method for the single\_prop function

**Usage**

```
## S3 method for class 'single_prop'
plot(x, plots = "bar", shiny = FALSE,
     custom = FALSE, ...)
```

**Arguments**

|        |   |
|--------|---|
| x      | Return value from <a href="#">single_prop</a>   |
| plots  | Plots to generate. "bar" shows a bar chart of the data. The "simulate" chart shows the location of the sample proportion and the comparison value (comp_value). Simulation is used to demonstrate the sampling variability in the data under the null-hypothesis                              |
| shiny  | Did the function call originate inside a shiny app  |
| custom | Logical (TRUE, FALSE) to indicate if ggplot object (or list of ggplot objects) should be returned. This option can be used to customize plots (e.g., add a title, change x and y labels, etc.). See examples and <a href="http://docs.ggplot2.org/">http://docs.ggplot2.org/</a> for options. |
| ...    | further arguments passed to or from other methods   |

**Details**

See [https://radiant-rstats.github.io/docs/basics/single\\_prop.html](https://radiant-rstats.github.io/docs/basics/single_prop.html) for an example in Radiant

**See Also**

[single\\_prop](#) to generate the result  
[summary.single\\_prop](#) to summarize the results

**Examples**

```
result <- single_prop("diamonds", "clarity", lev = "IF", comp_value = 0.05)
plot(result, plots = c("hist", "simulate"))
result <- single_prop("titanic", "pclass", lev = "1st")
plot(result, plots = c("hist", "simulate"))
```

---

prob\_binom

---

*Probability calculator for the binomial distribution (binomial)*


---

**Description**

Probability calculator for the binomial distribution (binomial)

**Usage**

```
prob_binom(n, p, lb = NA, ub = NA, plb = NA, pub = NA, dec = 3)
```

**Arguments**

|     |  |
|-----|--|
| n   | Number of trials                       |
| p   | Probability                            |
| lb  | Lower bound on the number of successes |
| ub  | Upper bound on the number of successes |
| plb | Lower probability bound                |
| pub | Upper probability bound                |
| dec | Number of decimals to show             |

**Details**

See [https://radiant-rstats.github.io/docs/basics/prob\\_calc.html](https://radiant-rstats.github.io/docs/basics/prob_calc.html) for an example in Radiant

---

prob\_chisq

---

*Probability calculator for the chi-squared distribution*


---

**Description**

Probability calculator for the chi-squared distribution

**Usage**

```
prob_chisq(df, lb = NA, ub = NA, plb = NA, pub = NA, dec = 3)
```

**Arguments**

|     |                              |
|-----|------------------------------|
| df  | Degrees of freedom           |
| lb  | Lower bound (default is 0)   |
| ub  | Upper bound (default is Inf) |
| plb | Lower probability bound      |
| pub | Upper probability bound      |
| dec | Number of decimals to show   |

**Details**

See [https://radiant-rstats.github.io/docs/basics/prob\\_calc.html](https://radiant-rstats.github.io/docs/basics/prob_calc.html) for an example in Radian

---

|           |  |
|-----------|--|
| prob_disc | <i>Probability calculator for the discrete distribution (discrete)</i> |
|-----------|--|

---

**Description**

Probability calculator for the discrete distribution (discrete)

**Usage**

```
prob_disc(v, p, lb = NA, ub = NA, plb = NA, pub = NA, dec = 3)
```

**Arguments**

|     |  |
|-----|--|
| v   | Values                                 |
| p   | Probabilities                          |
| lb  | Lower bound on the number of successes |
| ub  | Upper bound on the number of successes |
| plb | Lower probability bound                |
| pub | Upper probability bound                |
| dec | Number of decimals to show             |

**Details**

See [https://radiant-rstats.github.io/docs/basics/prob\\_calc.html](https://radiant-rstats.github.io/docs/basics/prob_calc.html) for an example in Radian

---

|           |  |
|-----------|--|
| prob_expo | <i>Probability calculator for the exponential distribution</i> |
|-----------|--|

---

**Description**

Probability calculator for the exponential distribution

**Usage**

```
prob_expo(rate, lb = NA, ub = NA, plb = NA, pub = NA, dec = 3)
```

**Arguments**

|      |                              |
|------|------------------------------|
| rate | Rate                         |
| lb   | Lower bound (default is 0)   |
| ub   | Upper bound (default is Inf) |
| plb  | Lower probability bound      |
| pub  | Upper probability bound      |
| dec  | Number of decimals to show   |

**Details**

See [https://radiant-rstats.github.io/docs/basics/prob\\_calc.html](https://radiant-rstats.github.io/docs/basics/prob_calc.html) for an example in Radian

---

|            |  |
|------------|--|
| prob_fdist | <i>Probability calculator for the F-distribution</i> |
|------------|--|

---

**Description**

Probability calculator for the F-distribution

**Usage**

```
prob_fdist(df1, df2, lb = NA, ub = NA, plb = NA, pub = NA, dec = 3)
```

**Arguments**

|     |                              |
|-----|------------------------------|
| df1 | Degrees of freedom           |
| df2 | Degrees of freedom           |
| lb  | Lower bound (default is 0)   |
| ub  | Upper bound (default is Inf) |
| plb | Lower probability bound      |
| pub | Upper probability bound      |
| dec | Number of decimals to show   |

**Details**

See [https://radiant-rstats.github.io/docs/basics/prob\\_calc.html](https://radiant-rstats.github.io/docs/basics/prob_calc.html) for an example in Radian

---

|           |   |
|-----------|---|
| prob_norm | <i>Probability calculator for the normal distribution</i> |
|-----------|---|

---

**Description**

Probability calculator for the normal distribution

**Usage**

```
prob_norm(mean, stdev, lb = NA, ub = NA, plb = NA, pub = NA, dec = 3)
```

**Arguments**

|       |                               |
|-------|-------------------------------|
| mean  | Mean                          |
| stdev | Standard deviation            |
| lb    | Lower bound (default is -Inf) |
| ub    | Upper bound (default is Inf)  |
| plb   | Lower probability bound       |
| pub   | Upper probability bound       |
| dec   | Number of decimals to show    |

**Details**

See [https://radiant-rstats.github.io/docs/basics/prob\\_calc.html](https://radiant-rstats.github.io/docs/basics/prob_calc.html) for an example in Radian

---

|           |  |
|-----------|--|
| prob_pois | <i>Probability calculator for the poisson distribution</i> |
|-----------|--|

---

**Description**

Probability calculator for the poisson distribution

**Usage**

```
prob_pois(lambda, lb = NA, ub = NA, plb = NA, pub = NA, dec = 3)
```

**Arguments**

|        |                              |
|--------|------------------------------|
| lambda | Rate                         |
| lb     | Lower bound (default is 0)   |
| ub     | Upper bound (default is Inf) |
| plb    | Lower probability bound      |
| pub    | Upper probability bound      |
| dec    | Number of decimals to show   |

**Details**

See [https://radiant-rstats.github.io/docs/basics/prob\\_calc.html](https://radiant-rstats.github.io/docs/basics/prob_calc.html) for an example in Radian

---

|            |  |
|------------|--|
| prob_tdist | <i>Probability calculator for the t distribution</i> |
|------------|--|

---

**Description**

Probability calculator for the t distribution

**Usage**

```
prob_tdist(df, mean = 0, stdev = 1, lb = NA, ub = NA, plb = NA,  
           pub = NA, dec = 3)
```

**Arguments**

|       |                               |
|-------|-------------------------------|
| df    | Degrees of freedom            |
| mean  | Mean                          |
| stdev | Standard deviation            |
| lb    | Lower bound (default is -Inf) |
| ub    | Upper bound (default is Inf)  |
| plb   | Lower probability bound       |
| pub   | Upper probability bound       |
| dec   | Number of decimals to show    |

**Details**

See [https://radiant-rstats.github.io/docs/basics/prob\\_calc.html](https://radiant-rstats.github.io/docs/basics/prob_calc.html) for an example in Radiant

---

|           |  |
|-----------|--|
| prob_unif | <i>Probability calculator for the uniform distribution</i> |
|-----------|--|

---

**Description**

Probability calculator for the uniform distribution

**Usage**

```
prob_unif(min, max, lb = NA, ub = NA, plb = NA, pub = NA, dec = 3)
```

**Arguments**

|     |                            |
|-----|----------------------------|
| min | Minimum value              |
| max | Maximum value              |
| lb  | Lower bound (default = 0)  |
| ub  | Upper bound (default = 1)  |
| plb | Lower probability bound    |
| pub | Upper probability bound    |
| dec | Number of decimals to show |

**Details**

See [https://radiant-rstats.github.io/docs/basics/prob\\_calc.html](https://radiant-rstats.github.io/docs/basics/prob_calc.html) for an example in Radiant

---

|                             |                                    |
|-----------------------------|------------------------------------|
| <code>radiant.basics</code> | <i><code>radiant.basics</code></i> |
|-----------------------------|------------------------------------|

---

**Description**

`radiant.basics`

Launch Radiant in the default browser

**Usage**

`radiant.basics()`

**Details**

See <https://radiant-rstats.github.io/docs> for documentation and tutorials

---

|                     |   |
|---------------------|---|
| <code>salary</code> | <i><code>Salaries for Professors</code></i> |
|---------------------|---|

---

**Description**

Salaries for Professors

**Usage**

`data(salary)`

**Format**

A data frame with 397 rows and 6 variables

**Details**

2008-2009 nine-month salary for professors in a college in the US. Description provided in `attr(salary,description)`



---

`single_mean`*Compare a sample mean to a population mean*

---

## Description

Compare a sample mean to a population mean

## Usage

```
single_mean(dataset, var, comp_value = 0, alternative = "two.sided",  
             conf_lev = 0.95, data_filter = "")
```

## Arguments

|                          |  |
|--------------------------|--|
| <code>dataset</code>     | Dataset name (string). This can be a dataframe in the global environment or an element in an <code>r_data</code> list from Radiant   |
| <code>var</code>         | The variable selected for the mean comparison  |
| <code>comp_value</code>  | Population value to compare to the sample mean   |
| <code>alternative</code> | The alternative hypothesis ("two.sided", "greater", or "less")   |
| <code>conf_lev</code>    | Span for the confidence interval   |
| <code>data_filter</code> | Expression entered in, e.g., Data > View to filter the dataset in Radiant. The expression should be a string (e.g., "price > 10000") |

## Details

See [https://radiant-rstats.github.io/docs/basics/single\\_mean.html](https://radiant-rstats.github.io/docs/basics/single_mean.html) for an example in Radiant

## Value

A list of variables defined in `single_mean` as an object of class `single_mean`

## See Also

[summary.single\\_mean](#) to summarize results

[plot.single\\_mean](#) to plot results

## Examples

```
single_mean("diamonds", "price")
```

---

`single_prop`*Compare a sample proportion to a population proportion*

---

**Description**

Compare a sample proportion to a population proportion

**Usage**

```
single_prop(dataset, var, lev = "", comp_value = 0.5,  
  alternative = "two.sided", conf_lev = 0.95, data_filter = "")
```

**Arguments**

|                          |  |
|--------------------------|--|
| <code>dataset</code>     | Dataset name (string). This can be a dataframe in the global environment or an element in an <code>r_data</code> list from Radiant   |
| <code>var</code>         | The variable selected for the proportion comparison  |
| <code>lev</code>         | The factor level selected for the proportion comparison  |
| <code>comp_value</code>  | Population value to compare to the sample proportion   |
| <code>alternative</code> | The alternative hypothesis ("two.sided", "greater", or "less")   |
| <code>conf_lev</code>    | Span of the confidence interval  |
| <code>data_filter</code> | Expression entered in, e.g., Data > View to filter the dataset in Radiant. The expression should be a string (e.g., "price > 10000") |

**Details**

See [https://radiant-rstats.github.io/docs/basics/single\\_prop.html](https://radiant-rstats.github.io/docs/basics/single_prop.html) for an example in Radiant

**Value**

A list of variables used in `single_prop` as an object of class `single_prop`

**See Also**

[summary.single\\_prop](#) to summarize the results

[plot.single\\_prop](#) to plot the results

**Examples**

```
result <- single_prop("diamonds", "cut")  
result <- single_prop("diamonds", "clarity", lev = "IF", comp_value = 0.05)
```

---

summary.compare\_means *Summary method for the compare\_means function*


---

**Description**

Summary method for the compare\_means function

**Usage**

```
## S3 method for class 'compare_means'
summary(object, show = FALSE, dec = 3, ...)
```

**Arguments**

|        |   |
|--------|---|
| object | Return value from <a href="#">compare_means</a>                     |
| show   | Show additional output (i.e., t.value, df, and confidence interval) |
| dec    | Number of decimals to show  |
| ...    | further arguments passed to or from other methods                   |

**Details**

See [https://radiant-rstats.github.io/docs/basics/compare\\_means.html](https://radiant-rstats.github.io/docs/basics/compare_means.html) for an example in Radiant

**See Also**

[compare\\_means](#) to calculate results  
[plot.compare\\_means](#) to plot results

**Examples**

```
result <- compare_means("diamonds", "cut", "price")
summary(result)
result <- diamonds %>% tbl_df %>% compare_means("x", "y")
summary(result)
result <- diamonds %>% tbl_df %>% group_by(cut) %>% compare_means("x", c("x", "y"))
summary(result)
```

---

summary.compare\_props *Summary method for the compare\_props function*


---

**Description**

Summary method for the compare\_props function

**Usage**

```
## S3 method for class 'compare_props'
summary(object, show = FALSE, dec = 3, ...)
```

**Arguments**

|        |   |
|--------|---|
| object | Return value from <a href="#">compare_props</a>                         |
| show   | Show additional output (i.e., chisq.value, df, and confidence interval) |
| dec    | Number of decimals to show  |
| ...    | further arguments passed to or from other methods                       |

**Details**

See [https://radiant-rstats.github.io/docs/basics/compare\\_props.html](https://radiant-rstats.github.io/docs/basics/compare_props.html) for an example in Radiant

**See Also**

[compare\\_props](#) to calculate results  
[plot.compare\\_props](#) to plot results

**Examples**

```
result <- compare_props("titanic", "pclass", "survived")
summary(result)
titanic %>% compare_props("pclass", "survived") %>% summary
```

---

|                     |  |
|---------------------|--|
| summary.correlation | <i>Summary method for the correlation function</i> |
|---------------------|--|

---

**Description**

Summary method for the correlation function

**Usage**

```
## S3 method for class 'correlation'
summary(object, cutoff = 0, covar = FALSE, dec = 2,
  ...)
```

**Arguments**

|        |   |
|--------|---|
| object | Return value from <a href="#">correlation</a>   |
| cutoff | Show only correlations larger than the cutoff in absolute value. Default is a cutoff of 0 |
| covar  | Show the covariance matrix (default is FALSE)   |
| dec    | Number of decimals to show  |
| ...    | further arguments passed to or from other methods.  |

**Details**

See <https://radiant-rstats.github.io/docs/basics/correlation.html> for an example in Radiant

**See Also**

[correlation](#) to calculate results

[plot.correlation](#) to plot results

**Examples**

```
result <- correlation("diamonds", c("price", "carat", "table"))
summary(result, cutoff = .3)
diamonds %>% correlation("price:carat") %>% summary
```

---

|                    |   |
|--------------------|---|
| summary.cross_tabs | <i>Summary method for the cross_tabs function</i> |
|--------------------|---|

---

**Description**

Summary method for the cross\_tabs function

**Usage**

```
## S3 method for class 'cross_tabs'
summary(object, check = "", dec = 2, ...)
```

**Arguments**

|        |   |
|--------|---|
| object | Return value from <a href="#">cross_tabs</a>  |
| check  | Show table(s) for variables var1 and var2. "observed" for the observed frequencies table, "expected" for the expected frequencies table (i.e., frequencies that would be expected if the null hypothesis holds), "chi_sq" for the contribution to the overall chi-squared statistic for each cell (i.e., $(o - e)^2 / e$ ), "dev_std" for the standardized differences between the observed and expected frequencies (i.e., $(o - e) / \sqrt{e}$ ), and "dev_perc" for the percentage difference between the observed and expected frequencies (i.e., $(o - e) / e$ ) |
| dec    | Number of decimals to show  |
| ...    | further arguments passed to or from other methods.  |

**Details**

See [https://radiant-rstats.github.io/docs/basics/cross\\_tabs.html](https://radiant-rstats.github.io/docs/basics/cross_tabs.html) for an example in Radiant

**See Also**

[cross\\_tabs](#) to calculate results

[plot.cross\\_tabs](#) to plot results

**Examples**

```
result <- cross_tabs("newspaper", "Income", "Newspaper")
summary(result, check = c("observed", "expected", "chi_sq"))
newspaper %>% cross_tabs("Income", "Newspaper") %>% summary("observed")
```

---

|                  |   |
|------------------|---|
| summary.goodness | <i>Summary method for the goodness function</i> |
|------------------|---|

---

## Description

Summary method for the goodness function

## Usage

```
## S3 method for class 'goodness'
summary(object, check = "", dec = 2, ...)
```

## Arguments

|        |   |
|--------|---|
| object | Return value from <a href="#">goodness</a>  |
| check  | Show table(s) for the selected variable (var). "observed" for the observed frequencies table, "expected" for the expected frequencies table (i.e., frequencies that would be expected if the null hypothesis holds), "chi_sq" for the contribution to the overall chi-squared statistic for each cell (i.e., $(o - e)^2 / e$ ), "dev_std" for the standardized differences between the observed and expected frequencies (i.e., $(o - e) / \sqrt{e}$ ), and "dev_perc" for the percentage difference between the observed and expected frequencies (i.e., $(o - e) / e$ ) |
| dec    | Number of decimals to show  |
| ...    | further arguments passed to or from other methods.  |

## Details

See <https://radiant-rstats.github.io/docs/basics/goodness> for an example in Radiant

## See Also

[goodness](#) to calculate results

[plot.goodness](#) to plot results

## Examples

```
result <- goodness("newspaper", "Income", c(.3, .7))
summary(result, check = c("observed", "expected", "chi_sq"))
newspaper %>% goodness("Income", "1/3 2/3") %>% summary("observed")
```

---

|                    |   |
|--------------------|---|
| summary.prob_binom | <i>Summary method for the probability calculator function</i> |
|--------------------|---|

---

### Description

Summary method for the probability calculator function

### Usage

```
## S3 method for class 'prob_binom'  
summary(object, type = "values", ...)
```

### Arguments

|        |   |
|--------|---|
| object | Return value from <a href="#">prob_binom</a>      |
| type   | Probabilities or values                           |
| ...    | further arguments passed to or from other methods |

### Details

See [https://radiant-rstats.github.io/docs/basics/prob\\_calc.html](https://radiant-rstats.github.io/docs/basics/prob_calc.html) for an example in Radian

---

|                    |  |
|--------------------|--|
| summary.prob_chisq | <i>Summary method for the probability calculator function (Chi-squared distribution)</i> |
|--------------------|--|

---

### Description

Summary method for the probability calculator function (Chi-squared distribution)

### Usage

```
## S3 method for class 'prob_chisq'  
summary(object, type = "values", ...)
```

### Arguments

|        |   |
|--------|---|
| object | Return value from <a href="#">prob_chisq</a>      |
| type   | Probabilities or values                           |
| ...    | further arguments passed to or from other methods |

### Details

See [https://radiant-rstats.github.io/docs/basics/prob\\_calc.html](https://radiant-rstats.github.io/docs/basics/prob_calc.html) for an example in Radian

---

|                   |  |
|-------------------|--|
| summary.prob_disc | <i>Summary method for the probability calculator function (discrete)</i> |
|-------------------|--|

---

**Description**

Summary method for the probability calculator function (discrete)

**Usage**

```
## S3 method for class 'prob_disc'
summary(object, type = "values", ...)
```

**Arguments**

|        |   |
|--------|---|
| object | Return value from <a href="#">prob_disc</a>       |
| type   | Probabilities or values                           |
| ...    | further arguments passed to or from other methods |

**Details**

See [https://radiant-rstats.github.io/docs/basics/prob\\_calc.html](https://radiant-rstats.github.io/docs/basics/prob_calc.html) for an example in Radiant

**Examples**

```
result <- prob_disc(v = "5 6 7 8 9 10 11 ", p = ".1 .2 .3 .15 .1 .1 .05", pub = 0.95)
summary(result, type = "probs")
```

---

|                   |  |
|-------------------|--|
| summary.prob_expo | <i>Summary method for the probability calculator function (Exponential distribution)</i> |
|-------------------|--|

---

**Description**

Summary method for the probability calculator function (Exponential distribution)

**Usage**

```
## S3 method for class 'prob_expo'
summary(object, type = "values", ...)
```

**Arguments**

|        |   |
|--------|---|
| object | Return value from <a href="#">prob_expo</a>       |
| type   | Probabilities or values                           |
| ...    | further arguments passed to or from other methods |

**Details**

See [https://radiant-rstats.github.io/docs/basics/prob\\_calc.html](https://radiant-rstats.github.io/docs/basics/prob_calc.html) for an example in Radiant



---

|                    |  |
|--------------------|--|
| summary.prob_fdist | <i>Summary method for the probability calculator function (F-distribution)</i> |
|--------------------|--|

---

### Description

Summary method for the probability calculator function (F-distribution)

### Usage

```
## S3 method for class 'prob_fdist'  
summary(object, type = "values", ...)
```

### Arguments

|        |   |
|--------|---|
| object | Return value from <a href="#">prob_fdist</a>      |
| type   | Probabilities or values                           |
| ...    | further arguments passed to or from other methods |

### Details

See [https://radiant-rstats.github.io/docs/basics/prob\\_calc.html](https://radiant-rstats.github.io/docs/basics/prob_calc.html) for an example in Radian

---

|                   |  |
|-------------------|--|
| summary.prob_norm | <i>Summary method for the probability calculator function (normal)</i> |
|-------------------|--|

---

### Description

Summary method for the probability calculator function (normal)

### Usage

```
## S3 method for class 'prob_norm'  
summary(object, type = "values", ...)
```

### Arguments

|        |   |
|--------|---|
| object | Return value from <a href="#">prob_norm</a>       |
| type   | Probabilities or values                           |
| ...    | further arguments passed to or from other methods |

### Details

See [https://radiant-rstats.github.io/docs/basics/prob\\_calc.html](https://radiant-rstats.github.io/docs/basics/prob_calc.html) for an example in Radian

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|                   |  |
|-------------------|--|
| summary.prob_pois | <i>Summary method for the probability calculator function (Poisson distribution)</i> |
|-------------------|--|

---

**Description**

Summary method for the probability calculator function (Poisson distribution)

**Usage**

```
## S3 method for class 'prob_pois'
summary(object, type = "values", ...)
```

**Arguments**

|        |   |
|--------|---|
| object | Return value from <a href="#">prob_pois</a>       |
| type   | Probabilities or values                           |
| ...    | further arguments passed to or from other methods |

**Details**

See [https://radiant-rstats.github.io/docs/basics/prob\\_calc.html](https://radiant-rstats.github.io/docs/basics/prob_calc.html) for an example in Radiant

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|                    |  |
|--------------------|--|
| summary.prob_tdist | <i>Summary method for the probability calculator function (t-distribution)</i> |
|--------------------|--|

---

**Description**

Summary method for the probability calculator function (t-distribution)

**Usage**

```
## S3 method for class 'prob_tdist'
summary(object, type = "values", ...)
```

**Arguments**

|        |   |
|--------|---|
| object | Return value from <a href="#">prob_tdist</a>      |
| type   | Probabilities or values                           |
| ...    | further arguments passed to or from other methods |

**Details**

See [https://radiant-rstats.github.io/docs/basics/prob\\_calc.html](https://radiant-rstats.github.io/docs/basics/prob_calc.html) for an example in Radiant

---

|                   |   |
|-------------------|---|
| summary.prob_unif | <i>Summary method for the probability calculator function (uniform)</i> |
|-------------------|---|

---

**Description**

Summary method for the probability calculator function (uniform)

**Usage**

```
## S3 method for class 'prob_unif'  
summary(object, type = "values", ...)
```

**Arguments**

|        |   |
|--------|---|
| object | Return value from <a href="#">prob_unif</a>       |
| type   | Probabilities or values                           |
| ...    | further arguments passed to or from other methods |

**Details**

See [https://radiant-rstats.github.io/docs/basics/prob\\_calc.html](https://radiant-rstats.github.io/docs/basics/prob_calc.html) for an example in Radiant

---

|                     |  |
|---------------------|--|
| summary.single_mean | <i>Summary method for the single_mean function</i> |
|---------------------|--|

---

**Description**

Summary method for the single\_mean function

**Usage**

```
## S3 method for class 'single_mean'  
summary(object, dec = 3, ...)
```

**Arguments**

|        |   |
|--------|---|
| object | Return value from <a href="#">single_mean</a>     |
| dec    | Number of decimals to show                        |
| ...    | further arguments passed to or from other methods |

**Details**

See [https://radiant-rstats.github.io/docs/basics/single\\_mean.html](https://radiant-rstats.github.io/docs/basics/single_mean.html) for an example in Radiant

**See Also**

[single\\_mean](#) to generate the results  
[plot.single\\_mean](#) to plot results

## Examples

```
result <- single_mean("diamonds", "price")
summary(result)
diamonds %>% single_mean("price") %>% summary
```

---

|                     |  |
|---------------------|--|
| summary.single_prop | <i>Summary method for the single_prop function</i> |
|---------------------|--|

---

## Description

Summary method for the single\_prop function

## Usage

```
## S3 method for class 'single_prop'
summary(object, dec = 3, ...)
```

## Arguments

|        |   |
|--------|---|
| object | Return value from <a href="#">single_prop</a>     |
| dec    | Number of decimals to show                        |
| ...    | further arguments passed to or from other methods |

## Details

See [https://radiant-rstats.github.io/docs/basics/single\\_prop.html](https://radiant-rstats.github.io/docs/basics/single_prop.html) for an example in Radiant

## See Also

[single\\_prop](#) to generate the results  
[plot.single\\_prop](#) to plot the results

## Examples

```
result <- single_prop("diamonds", "clarity", lev = "IF", comp_value = 0.05)
summary(result)
diamonds %>% single_prop("clarity", lev = "IF", comp_value = 0.05) %>% summary
```

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