

Package ‘overviewR’

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Type Package

Title Easily Extracting Information About Your Data

Version 0.0.4

Description Makes it easy to display descriptive information on a data set. Getting an easy overview of a data set by displaying and visualizing sample information in different tables (e.g., time and scope conditions). The package also provides publishable 'LaTeX' code to present the sample information.

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URL <https://github.com/cosimameyer/overviewR>

BugReports <https://github.com/cosimameyer/overviewR/issues>

Depends R (>= 3.5.0)

Imports dplyr (>= 1.0.0)

Suggests covr, knitr, rmarkdown, spelling, testthat

VignetteBuilder knitr

Encoding UTF-8

Language en-US

LazyData true

RoxygenNote 7.1.0

NeedsCompilation no

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overview_crosstab	<i>overview_crosstab</i>
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Description

Sorts a data set conditionally in a cross table. This can be helpful to get a sense of the time and scope conditions of a data set. Note, if used with a data set that has multiple observations on the id-time unit, the function automatically aggregates this information using the mean.

Usage

```
overview_crosstab(dat, cond1, cond2, threshold1, threshold2, id, time)
```

Arguments

dat	A data set object
cond1	Variable that describes the first condition
cond2	Variable that describes the second condition
threshold1	A threshold for cond1
threshold2	A threshold for cond2
id	Scope (e.g., country codes or individual IDs)
time	Time (e.g., time periods given by years, months, ...)

Value

A data frame object that contains a summary of the data set that can later be converted to a 'LaTeX' output using `overview_print`

Examples

```
data(toydata)
overview_crosstab(
  dat = toydata,
  cond1 = gdp,
  cond2 = population,
  threshold1 = 25000,
  threshold2 = 27000,
  id = ccode,
  time = year
)
```

overview_print	<i>overview_print</i>
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Description

Produces a 'LaTeX' output for output obtained via overview_tab and overview_crosstab

Usage

```
overview_print(
  obj,
  title = "Time and scope of the sample",
  id = "Sample",
  time = "Time frame",
  crosstab = FALSE,
  cond1 = "Condition 1",
  cond2 = "Condition 2",
  save_out = FALSE,
  path,
  file
)
```

Arguments

obj	Overview object produced by overview_tab or overview_crosstab
title	Title of the table (default is "Time and scope of the sample")
id	The name of the left column (default is "Sample"), will be ignored if crosstab is TRUE
time	The name of the right column (default is ("Time frame")), will be ignored if crosstab is TRUE
crosstab	Logical argument, if TRUE produces a crosstab output, default is FALSE
cond1	Description for the first condition (character), will be ignored if crosstab is FALSE. This should correspond to the input for cond1 in overview_crosstab
cond2	Description for the second condition (character), will be ignored if crosstab is FALSE. This should correspond to the input for cond2 in overview_crosstab
save_out	Optional argument, exports the output table as a .tex file, default is FALSE
path	Specifies the path where the output should be saved
file	Specifies name and file type (.tex)

Value

A 'LaTeX' output that can either be copy-pasted in a text document or exported directed as a .tex file

Examples

```

data(toydata)

overview_object <- overview_tab(dat = toydata, id = ccode, time = year)
overview_print(
  obj = overview_object,
  title = "Some nice title",
  crosstab = FALSE
)

overview_ct_object <- overview_crosstab(
  dat = toydata,
  cond1 = gdp,
  cond2 = population,
  threshold1 = 25000,
  threshold2 = 27000,
  id = ccode,
  time = year
)
overview_print(
  obj = overview_ct_object,
  title = "Some nice title for a cross tab",
  crosstab = TRUE,
  cond1 = "Name of first condition",
  cond2 = "Name of second condition"
)

```

 overview_tab

overview_tab

Description

Provides an overview table for the time and scope conditions of a data set

Usage

```
overview_tab(dat, id, time)
```

Arguments

dat	A data set object
id	Scope (e.g., country codes or individual IDs)
time	Time (e.g., time periods given by years, months, ...)

Value

A data frame object that contains a summary of a sample that can later be converted to a 'LaTeX' output using `overview_print`

Examples

```
data(toydata)
output_table <- overview_tab(dat = toydata, id = ccode, time = year)
```

toydata	<i>Cross-sectional data for countries</i>
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Description

Small, artificially generated toy data set that comes in a cross-sectional format where the unit of analysis is either country-year or country-year-month. It provides artificial information for five countries (Angola, Benin, France, Rwanda, and the UK) for a time span from 1990 to 1999 to illustrate the use of the package.

Usage

```
data(toydata)
```

Format

An object of class "data.frame"

ccode ISO3 country code (as character) for the countries in the sample (Angola, Benin, France, Rwanda, and UK)

year A value between 1990 and 1999

month An abbreviation (MMM) for month (character)

gpd A fake value for GDP (randomly generated)

population A fake value for population (randomly generated)

References

This data set was artificially created for the overviewR package.

Examples

```
data(toydata)
head(toydata)
```

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