Package 'edar'

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Type Package

Title Convenient Functions for Exploratory Data Analysis

Version 0.0.5

Description
A collection of convenient functions to facilitate common tasks in exploratory data analysis.
Some common tasks include generating summary tables of variables,
displaying tables as a 'flextable' or a 'kable'
and showing distributions of variables using 'ggplot2'.
Labels stating the source file with run time can be easily generated
for annotation in tables and plots.

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Encoding UTF-8

URL https://soutomas.github.io/edar/,
https://github.com/soutomas/edar/

BugReports https://github.com/soutomas/edar/issues

RoxygenNote 7.3.3

Imports dplyr, flextable, grDevices, janitor, kableExtra, knitr,
magrittr, patchwork, rlang, rstudioapi, scales, tidyr

Suggests ggplot2, gt

Depends R (>= 4.2.0)

NeedsCompilation no

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Repository CRAN

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Contents

`fc` *Copy files and rename with date*

Description

Copy files to destination and add date to file name with a tag as desired.

Usage

```
fc(fpath, des = "", tag = "-")
```

Arguments

`fpath`	<chr> A vector of file paths of the source files to copy.
`des`	<chr> Destination folder.
`tag`	<chr> Tag to the filename.

Value

A logical vector indicating if the operation succeeded for each of the files.

Examples

```
## Not run:
# Copy a file to home directory
tmp <- tempdir()
fc(c("f1.R","f2.R"),des=tmp)

## End(Not run)
```

ft *flextable wrapper*

Description

Sugar function for default flextable output.

Usage

```
ft(d, fnote = NULL, ttl = NULL, sig = 8, dig = 2, src = 0, omit = "")
```

Arguments

d	<dfr> A data frame.
fnote	<chr> Footnote.
ttl	<chr> Title.
sig	<int> Number of significant digits to compute.
dig	<int> Number of decimal places to display.
src	<int> Either 1 or 2 to add source label over 1 or 2 lines.
omit	<chr> Text to omit from the source label.

Value

A flextable object.

Examples

```
mtcars |> head() |> ft()
mtcars |> head() |> ft(src=1)
mtcars |> head() |> ft("Footnote")
mtcars |> head() |> ft("Footnote",src=1)
mtcars |> head() |> ft(sig=2,dig=1)
```

ft_def *flextable default*

Description

Sugar function to set flextable defaults. The arguments are passed to `flextable::set_flextable_defaults()`.

Usage

```
ft_def(font = "Calibri Light", fsize = 10, pad = 3)
```

Arguments

font	<chr> Font family - for font.family.
fsize	<int> Font size (in point) - for font.size.
pad	<int> Padding space around text - for padding.

Value

A list containing previous default values.

See Also

flextable::set_flextable_defaults().

Examples

```
## Not run:
ft_def()

## End(Not run)
```

---

ggcov_box *Box plot wrapper for discrete covariates*

Description

Sugar function to generate box plots for a chosen variable by discrete covariates. Orientation will follow the axis of the discrete variables. Numeric variables will be dropped, except the chosen variable to plot.

Usage

```
ggcov_box(d, var, cats, ...)
```

Arguments

d	<dfr> A data frame.
var	<var> A variable to plot as unquoted name.
cats	<var> Optional. A vector of selected discrete variables as unquoted names.
...	List of arguments to pass to ggplot2::geom_boxplot.

Value

A ggplot object of a box plot.

Examples

```
iris |> ggcov_box(Sepal.Length)
sleep |> ggcov_box(extra,group)
sleep |> ggcov_box(extra,"group") # character for `cats` will not break
d <- mtcars |> dplyr::mutate(cyl=factor(cyl),gear=factor(gear),vs=factor(vs))
d |> ggcov_box(mpg)
d |> ggcov_box(mpg,c("cyl","vs"))
```

---

ggcov_hist *Histogram wrapper for continuous covariates*

Description

Sugar function to generate histograms for numeric variables in a dataset. Non-numeric variables will be dropped.

Usage

```
ggcov_hist(d, cols, bins = 30, ...)
```

Arguments

d	<dfr> A data frame.
cols	<var> Optional. A vector of selected columns as unquoted names.
bins	<int> Number of bins.
...	Other arguments to pass to ggplot2::geom_histogram.

Value

A ggplot object with histograms of numeric variables.

Examples

```
iris |> ggcov_hist()
iris |> ggcov_hist(c(Sepal.Width,Sepal.Length))
```

ggcov_violin *Violin plot wrapper for discrete covariates*

Description

Sugar function to generate violin plots for a chosen variable by discrete covariates. Orientation will follow the axis of the discrete variables. Numeric variables will be dropped, except the chosen variable to plot.

Usage

```
ggcov_violin(d, var, cats, ...)
```

Arguments

d	<dfr> A data frame.
var	<var> A variable to plot as unquoted name.
cats	<var> Optional. A vector of selected discrete variables as unquoted names.
...	List of arguments to pass to ggplot2::geom_violin.

Value

A ggplot object with violin plots.

Examples

```
iris |> ggcov_violin(Sepal.Length)
sleep |> ggcov_violin(extra,group)
sleep |> ggcov_box(extra,"group") # character for `cats` will not break
d <- mtcars |> dplyr::mutate(cyl=factor(cyl),gear=factor(gear),vs=factor(vs))
d |> ggcov_violin(mpg)
d |> ggcov_violin(mpg,c("cyl","vs"))
```

ggsrc *Add source label to a ggplot object*

Description

Generate and add a source label with file path and run time to a ggplot object.

Usage

```
ggsrc(plt, span = 2, size = 8, col = "grey55", lab = NULL, omit = "")
```

Arguments

plt	A ggplot object.
span	<num> Number of lines: either 1 or 2.
size	<num> Text size.
col	<chr> Colour of the text.
lab	<chr> Custom label to use instead of the default.
omit	<chr> Text to omit from the label.

Value

A ggplot object with the added label.

Examples

```
# A source label can be easily added to a ggplot object.
library(ggplot2)
p = ggplot(mtcars, aes(mpg, wt)) + geom_point()
p |> ggsrc()
p |> ggsrc(lab="My label")
```

---

hcln *Generate hex colour codes for plotting*

Description

Create a vector of hex colour codes for the desired number of colours. Colours are generated by splitting hue in the range [0,360] in grDevices::hcl.

Usage

```
hcln(n, show = FALSE)
```

Arguments

n	<int> Number of colours to output.
show	<lgl> TRUE to show the output colours.

Value

Hex colour codes that can be used for plotting.

Examples

```
hcln(6,FALSE)
hcln(4,TRUE)
```

kb *kable wrapper*

Description

Sugar function for default kable output.

Usage

```
kb(d, fnote = NULL, cap = NULL, sig = 8, dig = 2, src = 0, omit = "")
```

Arguments

d	<dfr> A data frame.
fnote	<chr> Footnote.
cap	<chr> Caption.
sig	<int> Number of significant digits to compute.
dig	<int> Number of decimal places to display.
src	<int> Either 1 or 2 to add source label over 1 or 2 lines.
omit	<chr> Text to omit from the source label.

Value

A kable object

Examples

```
mtcars |> head() |> kb()
mtcars |> head() |> kb(src=1)
mtcars |> head() |> kb("Footnote")
mtcars |> head() |> kb("Footnote",src=1)
mtcars |> head() |> kb(sig=2,dig=1)
```

label_src *Generate source label*

Description

Generate a source label with file path and run time. In interactive sessions, the function uses `rstudioapi` to get the file path. It is designed to work in a script file in RStudio when running interactively. It will return empty if run in the console directly.

Usage

```
label_src(span = 2, omit = "", tz = TRUE)
```

Arguments

span	<int> Number of lines: either 1 or 2.
omit	<chr> Text to omit from the label.
tz	<lgl> FALSE to exclude time stamp.

Value

A label showing the source file path with a time stamp.

Examples

```
label_src(1)
label_src(tz=FALSE)
```

---

label_tz *Generate time stamp label*

Description

Generate a time stamp label of the current time.

Usage

```
label_tz(omit = "")
```

Arguments

omit	<chr> Text to omit from the label.

Value

A label with time stamp.

Examples

```
label_tz()
```

summ_by *Summarise continuous variables by group*

Description

Summarise all continuous variables by group. Non-numeric variables will be dropped.

Usage

```
summ_by(d, cols, ..., pct = c(0.25, 0.75), xname = "")
```

Arguments

d	<dfr> A data frame.
cols	<var> Optional. Select a vector of variables as unquoted names.
...	<var> Optional. Columns to group by as unquoted names.
pct	<num> A vector of two indicating the percentiles to compute.
xname	<chr> Characters to omit in output column names.

Value

A data frame of summarised variables.

Examples

```
iris |> summ_by()
iris |> summ_by(pct=c(0.1,0.9))
d <- mtcars |> dplyr::mutate(vs=factor(vs), am=factor(am))
d |> summ_by(mpg)
d |> summ_by(mpg,vs)
d |> summ_by(mpg,vs,am)
d |> summ_by(c(mpg,disp))
d |> summ_by(c(mpg,disp),vs)
d |> summ_by(c(mpg,disp),vs,xname="mpg_")
# grouping without column selection is possible but rarely useful in large dataset
d |> summ_by(,vs)
```

summ_cat *Summarise categorical variables*

Description

Summarise categorical variables. Numeric variables will be dropped.

Usage

```
summ_cat(d, pos)
```

Arguments

d	A data frame.
pos	<chr/int> (name or position) Optional. Choose a variable to return.

Value

A list containing summaries for each categorical variables.

Examples

```
iris |> summ_cat()
sleep |> summ_cat()
sleep |> summ_cat("group")
sleep |> summ_cat(1)
```

Index