Package: starfish (via r-universe)

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Title Internal helpers

Version 0.0.8.9001

Description Floating deep down in the sea starfish lives healthy and happily.

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Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.1

URL https://github.com/cathblatter/starfish, https://cathblatter.github.io/starfish/

BugReports https://github.com/cathblatter/starfish/issues

Imports ggplot2, methods, dplyr, tibble, lubridate

Depends R (>= 2.10)

LazyData true

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

Repository https://cathblatter.r-universe.dev

RemoteUrl https://github.com/cathblatter/starfish

RemoteRef HEAD

RemoteSha 1f014cb0dcd9e61d3c6c1a682d5ab9b9cf689eab

Contents

`create_table` *Reverse engineer a table from its description from a SQL query*

Description

Reverse engineer a table from its description from a SQL query

Usage

```
create_table(tbl_name)
```

Arguments

`tbl_name`	Table with holds the value with both the TABLE_NAME as well as the COLUMN_NAME. See details and examples

Details

The table to create derives its name from the TABLE_NAME column and the columns from the COLUMN_NAME column. Overall, the output comes from an Oracle DB

Value

a tibble assigned to the GlobalEnv

Examples

```
# mockup table descritpion
(tbl_descr <- tibble::tibble(TABLE_NAME = c("my_table"),
                             COLUMN_NAME = c("var1", "var2", "var3")))
# now print the table
## Not run: create_table(tbl_descr)
```

dict_hierarchie *dict_hierarchie*

Description

dict_tbl about pep_hierarchie dataset

Usage

```
dict_hierarchie
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 27 rows and 3 columns.

dict_pepzeiten *dict_pepzeiten*

Description

dict_tbl about pep_zeiten dataset

Usage

```
dict_pepzeiten
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 32 rows and 6 columns.

facet_custom *STARFISH customized facets with units on right side*

Description

STARFISH customized facets with units on right side

Usage

```
facet_wrap_starfish(
  facets = ~anon_unit,
  ncol = 1,
  nrow = NULL,
  strip.position = "right",
  drop = TRUE,
  scales = "fixed",
  shrink = TRUE,
  labeller = "label_value",
  as.table = TRUE,
  switch = NULL,
  dir = "h",
  ...
)

facet_wrap_sf(
  facets = ~anon_unit,
  ncol = 1,
  nrow = NULL,
  strip.position = "right",
  drop = TRUE,
  scales = "fixed",
  shrink = TRUE,
  labeller = "label_value",
  as.table = TRUE,
  switch = NULL,
  dir = "h",
  ...
)
```

Arguments

facets	defaults to variable anon_unit
ncol	defaults to 1
nrow	defaults to NULL
strip.position	"right"
drop	default: TRUE
scales	default: fixed
shrink	default fixed
labeller	"label_value"
as.table	TRUE
switch	NULL
dir	"h"
...	to pass to ggplot2::facet_wrap

Value

a facet

`filter_shifts_where` *Filter all shifts where a certain condition is met*

Description

Filter all shifts where a certain condition is met

Usage

```
filter_shifts_where(.data, ..., shift_var = shift_id)
```

Arguments

`.data`	a data frame or tibble
`...`	condition to pass to dplyr::filter
`shift_var`	variable with the shift_identified, default = "shift_id"

Value

a dataframe containing all shift-entries where a condition is met

---

`geom_covid_starfish` *Highlighting Covid timeframe in NH*

Description

Highlighting Covid timeframe in NH

Usage

```
geom_covid_starfish(
  date1 = "2020-03-17",
  date2 = "2021-12-01",
  color = "grey30",
  linetype = "dashed",
  alpha = 0.6
)
```

Arguments

date1	default set
date2	default set
color	default set
linetype	default set
alpha	default set

Value

a custom geom

---

get_starfish_palettes *Get names of all unique palettes provided in starfish*

Description

Get names of all unique palettes provided in starfish

Usage

```
get_starfish_palettes(full = FALSE)
```

Arguments

full	Whether to include full palette names (with suffixes, e.g. _cont) or just stubs

Value

Vector of palette name stubs or full names

Examples

```
get_starfish_palettes()
```

scale_custom *Custom color and fill scales*

Description

Custom coloring and filling functions based on unique color palettes

Usage

```
scale_color_starfish_d(palette = "starfish", extend = FALSE, ...)

scale_colour_starfish_d(palette = "starfish", extend = FALSE, ...)

scale_fill_starfish_d(palette = "starfish", extend = FALSE, ...)

scale_color_starfish_op(
  palette = "starfish",
  val_names = c("good", "neutral", "bad"),
  ...
)

scale_colour_starfish_op(
  palette = "starfish",
  val_names = c("good", "neutral", "bad"),
  ...
)

scale_fill_starfish_op(
  palette = "starfish",
  val_names = c("good", "neutral", "bad"),
  ...
)

scale_color_starfish_div(palette = "starfish", ...)

scale_colour_starfish_div(palette = "starfish", ...)

scale_fill_starfish_div(palette = "starfish", ...)

scale_color_starfish_c(palette = "starfish", ...)

scale_colour_starfish_c(palette = "starfish", ...)

scale_fill_starfish_c(palette = "starfish", ...)
```

Arguments

palette	Name of color palette

extend	Whether to extend discrete color palette to make sufficient colors for levels needed
...	Additional arguments to be passed to internal scale function
val_names	For opinionated scales, defaults to "good", "neutral", "bad"

Details

Specific functions include:

- scale_(color/colour/fill)_starfish_d : Discrete palette with either fixed or dynamically extended number of shades
- scale_(color/colour/fill)_starfish_op\b : Discrete palette with fixed colors for "good", "bad", and "neutral"
- scale_(color/colour/fill)_starfish_div : Continuous diverging color palette, must contain negative, neutral, positive values
- scale_(color/colour/fill)_starfish_c : Continuous color palette

Examples

```
library(ggplot2)
library(starfish)
ggplot(diamonds[1:2000,], aes(x = cut, y = carat,
color = cut)) +
geom_point() +
scale_color_starfish_d() +
theme_starfish()
```

---

scale_x_date_starfish *Custom starfish date scale*

Description

Custom starfish date scale

Usage

```
scale_x_date_starfish(
  date_breaks = "1 year",
  date_labels = "%Y",
  expand = c(0.05, 0),
  ...
)

scale_x_date_sf(
  date_breaks = "1 year",
  date_labels = "%Y",
  expand = c(0.05, 0),
  ...
)
```

Arguments

date_breaks	defaults to 1 year
date_labels	defaults to YYYY
expand	how to expand the axes
...	further args passed

Value

a custom scale

---

starfish_pal *STARFISH palette with six dimensions*

Description

STARFISH palette with six dimensions

Usage

```
starfish_pal

starfish_pal_op

starfish_pal_cont

starfish_pal_div
```

Format

An object of class character of length 17.

An object of class character of length 3.

An object of class character of length 2.

An object of class character of length 3.

tbl_study_period *tbl_study_period*

Description

a table containing all days of the study period

- as dates
- as integer representation
- days in month
- weekdays
- months
- weekends

Usage

```
tbl_study_period
```

Format

An object of class `data.frame` with 1826 rows and 5 columns.

theme_starfish *STARFISH ggplot theme*

Description

ggplot2 plot theme based on...

Usage

```
theme_starfish(base_theme = ggplot2::theme_minimal(), ...)
```

Arguments

`base_theme`	A base theme upon which additional theme-specific options are applied
`...`	Fruther arguments passed to `ggplot2::theme()`

References

https://github.com/gadenbuie/ggpomological/blob/master/R/theme_pomological.R

See Also

ggplot2::theme

Examples

```
## Not run:
library(ggplot2)
data <- data.frame(x = 1:10, y = 1:10)
ggplot(data, aes(x, y)) + geom_point() + theme_starfish()

## End(Not run)
```

`wd_data_rd` *Internal directories*

Description

paths to the project directory - data folder

Usage

```
wd_data_rd
```

Format

An object of class `character` of length 1.

`wd_deidata_rd` *Internal directories*

Description

paths to the project directory - de-id'd data folder

Usage

```
wd_deidata_rd
```

Format

An object of class `character` of length 1.

wd_prepdata_rd *Internal directories*

Description

paths to the project directory - prepared data folder

Usage

```
wd_prepdata_rd
```

Format

An object of class `character` of length 1.

wd_rd *Internal directories*

Description

paths to the project directory

Usage

```
wd_rd
```

Format

An object of class `character` of length 1.

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