

Package: autoslider.core (via r-universe)

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Type Package

Title Slides automation with R

Version 0.0.1.9033

Description Slides automation with R.

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URL <https://github.com/insightsengineering/autoslider.core>

Depends flextable (>= 0.9.4), officer (>= 0.3.18), R (>= 2.10)

Imports assertthat, checkmate, cli, dplyr, filters (>= 0.3.1),
forcats, formatters (>= 0.5.9), ggplot2, ggpubr, glue,
googlesheets4, grid, gridExtra, lubridate, magrittr, methods,
purrr, readxl, rlang, rlistings (>= 0.2.9), rtables (>=
0.6.10), rvg (>= 0.2.5), stringr, survival, tern (>= 0.9.6),
tidyr, yaml

Suggests devtools, googledrive, htmltools, httr, knitr, mime,
nestcolor, rmarkdown (>= 2.23), rsvg, styler (>= 1.10.2),
svglite (>= 2.1.2), testthat (>= 3.2.0), withr

Config/Needs/verdepcheck insightsengineering/formatters,
tidyverse/magrittr, mllg/checkmate, rstudio/htmltools,
gagolews/stringi, tidymodels/broom, cran/car, tidyverse/dplyr,
davidgohel/flextable, yihui/knitr, r-lib/lifecycle,
davidgohel/officer, Merck/r2rtf, rstudio/rmarkdown,
therneau/survival, r-lib/testthat, tidyverse/tibble,
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libjpeg-dev libpng-dev libtiff-dev libxml2-dev libssl-dev

Repository <https://insightsengineering.r-universe.dev>

RemoteUrl <https://github.com/insightsengineering/autoslider.core>

RemoteRef main

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 autoslider.core-package

autoslider.core Package

Description

Slides automation with R.

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See Also

Useful links:

- <https://github.com/insightengineering/autoslider.core>

autoslider_error

autoslider_error class

Description

autoslider_error class

Usage

```
autoslider_error(x, spec, step)
```

Arguments

x	character scaler
spec	spec should be a list containing "program" and "suffix"
step	step is a character indicating in which step the pipeline encounter error

Details

this function is used to create autoslider_error object. this function is for internal use only to create the autoslider_error object. It enable us for further functionalities, like providing help on easy debugging, e.g. if the error is inside the user function, provide the call and let the user run the code outside the pipeline.

autoslider_format	<i>Table color and font</i>
-------------------	-----------------------------

Description

Zebra themed color

Usage

```
autoslider_format(
  ft,
  odd_header = "#0EAED5",
  odd_body = "#EBF5FA",
  even_header = "#0EAED5",
  even_body = "#D0E4F2",
  font_name = "arial",
  body_font_size = 12,
  header_font_size = 14
)

blue_format(ft, ...)

orange_format(ft, ...)

red_format(ft, ...)

purple_format(ft, ...)

autoslider_dose_format(ft, header_vals = names(ft))

white_format(ft, ...)

black_format(ft, ...)
```

Arguments

ft	flextable object
odd_header	Hex color code, default to deep sky blue
odd_body	Hex color code, default to alice blue
even_header	Hex color code, default to slate gray

even_body	Hex color code, default to slate gray
font_name	Font name, default to arial
body_font_size	Font size of the table content, default to 12
header_font_size	Font size of the table header, default to 14
...	arguments passed to program
header_vals	Header

Functions

- autoslider_format(): User defined color code and font size
- blue_format(): Blue color theme
- orange_format(): Orange color theme
- red_format(): Red color theme
- purple_format(): Purple color theme
- autoslider_dose_format(): 'AutoslideR' dose formats
- white_format(): White color theme
- black_format(): Black color theme

build_table_header	<i>Build table header, a utility function to help with construct structured header for table layout</i>
--------------------	---

Description

Build table header, a utility function to help with construct structured header for table layout

Usage

```
build_table_header(anl, arm, split_by_study, side_by_side)
```

Arguments

anl	analysis data object
arm	Arm variable for column split
split_by_study	if true, construct structured header with the study ID
side_by_side	A logical value indicating whether to display the data side by side.

center_figure_loc	<i>Create location container to center the figure, based on ppt size and user specified figure size</i>
-------------------	---

Description

Create location container to center the figure, based on ppt size and user specified figure size

Usage

```
center_figure_loc(fig_width, fig_height, ppt_width, ppt_height)
```

Arguments

fig_width	Figure width
fig_height	Figure height
ppt_width	Slide width
ppt_height	Slide height

Value

Location for a placeholder from scratch

center_table_loc	<i>create location container to center the table</i>
------------------	--

Description

create location container to center the table

Usage

```
center_table_loc(ft, ppt_width, ppt_height)
```

Arguments

ft	Flextable object
ppt_width	Powerpoint width
ppt_height	Powerpoint height

Value

Location for a placeholder

check_and_set_cutoff *Assert function to check the cutoff*

Description

Assert function to check the cutoff

Usage

check_and_set_cutoff(data, cutoff)

Arguments

data	dataframe
cutoff	cutoff threshold

decorate *generic function decorate*

Description

generic function decorate

s3 method for decorate

Usage

decorate(x, ...)

decorate(x, ...)

Arguments

x	object to decorate
...	additional arguments passed to methods

decorate,listing_df-method
decorate listing

Description

decorate listing

Usage

```
## S4 method for signature 'listing_df'
decorate(x, titles = "", footnotes = "", paper = "P8", for_test = FALSE, ...)
```

Arguments

x	A listing_df object representing the data to be decorated.
titles	Title to be added to the table.
footnotes	Footnote to be added to the table
paper	Orientation and font size as string, e.g. "P8"; "L11"
for_test	'logic' CICD parameter
...	Additional arguments. not used.

decorate,VTableTree-method
Decorate TableTree

Description

Decorate TableTree

Usage

```
## S4 method for signature 'VTableTree'
decorate(x, titles = "", footnotes = "", paper = "P8", for_test = FALSE, ...)
```

Arguments

x	A VTableTree object representing the data to be decorated.
titles	Title to be added to the table.
footnotes	Footnote to be added to the table
paper	Orientation and font size as string, e.g. "P8"; "L11"
for_test	'logic' CICD parameter
...	Additional arguments passed to the decoration function.

decorate.autoslider_error
decorate method for autoslider_error class

Description

decorate method for autoslider_error class

Usage

decorate.autoslider_error(x, ...)

Arguments

x object to decorate
... additional arguments. not used.

decorate.default *default method to decorate*

Description

default method to decorate

Usage

decorate.default(x, ...)

Arguments

x object to decorate
... additional arguments. not used.

decorate.ggplot	<i>Decorate ggplot object</i>
-----------------	-------------------------------

Description

Decorate ggplot object

Usage

```
decorate.ggplot(
  x,
  titles = "",
  footnotes = "",
  paper = "L11",
  for_test = FALSE,
  ...
)
```

Arguments

x	An object to decorate
titles	Plot titles
footnotes	Plot footnotes
paper	Paper size, by default "L11"
for_test	'logic' CICD parameter
...	additional arguments. not used.

Details

The paper default paper size, 'L11', indicate that the fontsize is 11. The fontsize of the footnotes, is the fontsize of the titles minus 2.

decorate.grob	<i>decorate grob</i>
---------------	----------------------

Description

decorate grob

Usage

```
decorate.grob(x, titles, footnotes, paper = "L11", for_test = FALSE, ...)
```

Arguments

<code>x</code>	object to decorate
<code>titles</code>	graph titles
<code>footnotes</code>	graph footnotes
<code>paper</code>	paper size. default is "L8".
<code>for_test</code>	'logic' CICD parameter
<code>...</code>	Additional arguments. not used.

Details

The paper default paper size, 'L11', indicate that the fontsize is 11. The fontsize of the footnotes, is the fontsize of the titles minus 2.

<code>decorate.list</code>	<i>decorate list of grobs</i>
----------------------------	-------------------------------

Description

decorate list of grobs

Usage

```
decorate.list(x, titles, footnotes, paper = "L11", for_test = FALSE, ...)
```

Arguments

<code>x</code>	object to decorate
<code>titles</code>	graph titles
<code>footnotes</code>	graph footnotes
<code>paper</code>	paper size. default is "L11".
<code>for_test</code>	'logic' CICD parameter
<code>...</code>	additional arguments. not used

Details

The paper default paper size, 'L11', indicate that the fontsize is 11. The fontsize of the footnotes, is the fontsize of the titles minus 2.

decorate_outputs	<i>Decorate outputs</i>
------------------	-------------------------

Description

Decorate outputs with titles and footnotes

Usage

```
decorate_outputs(
  outputs,
  generic_title = NULL,
  generic_footnote = "Confidential and for internal use only",
  version_label = get_version_label_output(),
  for_test = FALSE
)
```

Arguments

outputs	'list' of output objects as created by 'generate_outputs'
generic_title	'character' vector of titles
generic_footnote	'character' vector of footnotes
version_label	'character'. A version label to be added to the title.
for_test	'logic' CICD parameter

Details

'generic_title' and 'generic_footnote' will be added to **all** outputs. The use case is to add information such as protocol number and snapshot date defined in a central place (e.g. metadata.yml) to **every** output.

'version_label' must be either "DRAFT", "APPROVED" or 'NULL'. By default, when outputs are created on the master branch it is set to 'NULL', i.e. no version label will be displayed. Otherwise "DRAFT" will be added. To add "APPROVED" to the title you will need to explicitly set 'version_label = "APPROVED"'.

dec_paste	<i>Concatenate arguments into a string</i>
-----------	--

Description

Concatenate arguments into a string

Usage

```
dec_paste(...)
```

Arguments

```
... arguments passed to program
```

 eg_adae

Cached ADAE

Description

Cached ADAE data

Usage

```
data(eg_adae)
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 1934 rows and 93 columns.

 eg_adeq

Cached ADEG

Description

Cached ADEG data

Usage

```
data(eg_adeq)
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 13600 rows and 88 columns.

eg_adex	<i>Cached ADEX</i>
---------	--------------------

Description

Cached ADEX data

Usage

```
data(eg_adex)
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 6400 rows and 79 columns.

eg_adlb	<i>Cached ADLB</i>
---------	--------------------

Description

Cached ADLB data

Usage

```
data(eg_adlb)
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 8400 rows and 102 columns.

eg_adrs	<i>Cached ADRS</i>
---------	--------------------

Description

Cached ADRS data

Usage

```
data(eg_adrs)
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 3200 rows and 65 columns.

eg_ads1	<i>Cached ADSL</i>
---------	--------------------

Description

Cached ADSL data

Usage

```
data(eg_ads1)
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 400 rows and 55 columns.

eg_adtr	<i>Cached ADTR</i>
---------	--------------------

Description

Cached ADTR data

Usage

```
data(eg_adtr)
```

Format

An object of class `data.frame` with 2800 rows and 76 columns.

eg_adtte	<i>Cached ADTTE</i>
----------	---------------------

Description

Cached ADTTE data

Usage

```
data(eg_adtte)
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 2000 rows and 67 columns.

eg_adv	<i>Cached ADVS</i>
--------	--------------------

Description

Cached ADVS data

Usage

```
data(eg_adv)
```

Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 16800 rows and 87 columns.

fastDoCall	<i>Does do.call quicker, and avoids issues with debug mode within do.call</i>
------------	---

Description

copied from ms showcase app

Usage

```
fastDoCall(what, args, quote = FALSE, envir = parent.frame())
```

Arguments

what	either a function or a non-empty character string naming the function to be called.
args	a list of arguments to the function call. The names attribute of args gives the argument names.
quote	a logical value indicating whether to quote the arguments.
envir	an environment within which to evaluate the call. This will be most useful if what is a character string and the arguments are symbols or quoted expressions.

figure_to_slide	<i>Add figure to slides</i>
-----------------	-----------------------------

Description

Add figure to slides

Usage

```
figure_to_slide(
  ppt,
  content,
  decor = TRUE,
  fig_width,
  fig_height,
  figure_loc = ph_location_type("body"),
  ...
)
```

Arguments

ppt	slide page
content	content to be added
decor	should decoration be added
fig_width	user specified figure width
fig_height	user specified figure height
figure_loc	location of the figure. Defaults to 'ph_location_type("body")'
...	arguments passed to program

Value

slide with the added content

filter_spec	<i>Filter a spec object</i>
-------------	-----------------------------

Description

Filter a spec object

Usage

```
filter_spec(spec, filter_expr, verbose = TRUE)
```

Arguments

spec	A 'spec' object as returned by 'read_spec()'
filter_expr	A 'logical' expression indicating outputs to keep
verbose	Should a message about the number of outputs matching 'filter_spec' be printed? Defaults to 'TRUE'.

Value

A 'spec' object containing only the outputs matching 'filter_expr'

Author(s)

Thomas Neitmann ('neitmant')

Examples

```
library(dplyr)
spec_file <- system.file("spec.yml", package = "autoslider.core")
spec <- spec_file %>% read_spec()
## Keep only outputs belonging to batch 2
## Not run:
filter_spec(spec, batch == 2)

## End(Not run)

## Keep only the t_dm_IT output
filter_spec(spec, output == "t_dm_IT")

## Same as above but more verbose
filter_spec(spec, program == "t_dm" && suffix == "IT")

## Keep all t_ae outputs
filter_spec(spec, program == "t_ae")

## Keep all output run on safety population
filter_spec(spec, "SE" %in% suffix)

## Keep t_dm_CHN_IT and t_dm_CHN_SE
filter_spec(spec, program == "t_dm" && suffix %in% c("CHN_IT", "CHN_SE"))

## Keep all tables
filter_spec(spec, grepl("^t_", program))
```

format_3d	<i>Format of xx.xx (xx.xx, xx.xx)</i>
-----------	---------------------------------------

Description

Format of xx.xx (xx.xx, xx.xx)

Usage

```
format_3d(x, output)
```

Arguments

x	input array
output	output handle

format_date	<i>Convert dates from 'yyyy-mm-dd' format into 20APR2019 format 'Datetime' format removes the time and outputs date in the same way Able to handle truncated dates as well (e.g. just the year or year and month)</i>
-------------	---

Description

'dplyr::case_when()' will check all RHS expressions on the input, this means if these expressions return warnings, they will happen even then the input doesn't doesn't satisfy the LHS. For this reason, I had to 'quiet' all 'lubridate' functions. This 'format_date()' function was tested with the inputs in the examples, all gave the expected returned value, so there should be no issues.

Usage

```
format_date(x)
```

Arguments

x	vector of dates in character, in 'yyyy-mm-dd' format
---	--

Value

A vector.

Examples

```
# expected to return "2019"
format_date("2019")

# expected to return "20APR2019"
format_date("2019-04-20")

# expected to return ""
format_date("")

# expected to return "18JUN2019"
format_date("2019-06-18T10:32")

# expected to return "APR2019"
format_date("2019-04")
```

func_wrapper

function wrapper to pass filtered data

Description

function wrapper to pass filtered data

Usage

```
func_wrapper(func, datasets, spec, verbose = TRUE)
```

Arguments

func	function name
datasets	list of raw datasets
spec	spec
verbose	whether to show verbose information

Value

a wrapped function using filtered adam

generate_output	<i>Generate output and apply filters, titles, and footnotes</i>
-----------------	---

Description

Generate output and apply filters, titles, and footnotes

Usage

```
generate_output(program, datasets, spec, verbose_level = 2, ...)
```

Arguments

program	program name
datasets	list of datasets
spec	spec
verbose_level	Verbose level of messages be displayed. See details for further information.
...	arguments passed to program

Details

'verbose_level' is used to control how many messages are printed out. By default, '2' will show all filter messages and show output generation message. '1' will show output generation message only. '0' will display no message.

Author(s)

Liming Li ('Lil128')

Examples

```
library(dplyr)
filters::load_filters(
  yaml_file = system.file("filters.yml", package = "autoslider.core"),
  overwrite = TRUE
)

spec_file <- system.file("spec.yml", package = "autoslider.core")
spec <- spec_file %>% read_spec()

data <- list(
  adsl = eg_adsl,
  adae = eg_adae
)
generate_output("t_ae_slide", data, spec$t_ae_slide_SE)
```

generate_outputs	<i>Generate all outputs from a spec</i>
------------------	---

Description

Generate all outputs from a spec

Usage

```
generate_outputs(spec, datasets, verbose_level = 2)
```

Arguments

spec	Specification list generated by 'read_spec'
datasets	A 'list' of datasets
verbose_level	Verbose level of messages be displayed. See details for further information.

Details

'verbose_level' is used to control how many messages are printed out. By default, '2' will show all filter messages and show output generation message. '1' will show output generation message only. '0' will display no message.

Author(s)

- Thomas Neitmann ('neitmant') - Liming Li ('Lil128')

Examples

```
library(dplyr, warn.conflicts = FALSE)
data <- list(
  adsl = eg_adsl,
  adae = eg_adae
)
filters::load_filters(
  yaml_file = system.file("filters.yml", package = "autoslider.core"),
  overwrite = TRUE
)

spec_file <- system.file("spec.yml", package = "autoslider.core")
spec_file %>%
  read_spec() %>%
  filter_spec(output %in% c("t_dm_slide_IT", "t_ae_slide_SE")) %>%
  generate_outputs(datasets = data)
```

generate_slides *generate slides based on output*

Description

generate slides based on output

Usage

```
generate_slides(
  outputs,
  outfile = "output.pptx",
  template = file.path(system.file(package = "autoslider.core"), "theme/basic.pptx"),
  fig_width = 9,
  fig_height = 6,
  t_lpp = 20,
  t_cpp = 200,
  l_lpp = 20,
  l_cpp = 150,
  ...
)
```

Arguments

outputs	List of output
outfile	Out file path
template	Template file path
fig_width	figure width in inch
fig_height	figure height in inch
t_lpp	An integer specifying the table lines per page Specify this optional argument to modify the length of all of the table displays
t_cpp	An integer specifying the table columns per page Specify this optional argument to modify the width of all of the table displays
l_lpp	An integer specifying the listing lines per page Specify this optional argument to modify the length of all of the listings display
l_cpp	An integer specifying the listing columns per page Specify this optional argument to modify the width of all of the listings display
...	arguments passed to program

Examples

```
# Example 1. When applying to the whole pipeline
library(dplyr)
data <- list(
  adsl = eg_adsl %>% dplyr::mutate(FASFL = SAFFL),
```



```

    adae = eg_adae
  )

  filters::load_filters(
    yaml_file = system.file("filters.yml", package = "autoslider.core"),
    overwrite = TRUE
  )

spec_file <- system.file("spec.yml", package = "autoslider.core")
spec_file %>%
  read_spec() %>%
  filter_spec(program %in% c("t_dm_slide")) %>%
  generate_outputs(datasets = data) %>%
  decorate_outputs() %>%
  generate_slides()

# Example 2. When applying to an rtable object or an rlisting object
adsl <- eg_adsl
t_dm_slide(adsl, "TRT01P", c("SEX", "AGE")) %>%
  generate_slides()

```

gen_notes

General notes

Description

General notes

Usage

```
gen_notes()
```

Note

* Default arm variables are set to "TRT01A" for safety output, and "TRT01P" for efficacy output

get_proper_title

Adjust title line break and font size

Description

Adjust title line break and font size

Usage

```
get_proper_title(title, max_char = 60, title_color = "#1C2B39")
```

Arguments

<code>title</code>	Character string
<code>max_char</code>	Integer specifying the maximum number of characters in one line
<code>title_color</code>	Title color

`lyt_to_side_by_side` *Build side by side layout by cbind*

Description

Build side by side layout by cbind

Usage

```
lyt_to_side_by_side(lyt, anl, side_by_side = NULL)
```

Arguments

<code>lyt</code>	layout object
<code>anl</code>	analysis data object
<code>side_by_side</code>	A logical value indicating whether to display the data side by side.

`lyt_to_side_by_side_two_data`
Build side by side layout by cbind

Description

Build side by side layout by cbind

Usage

```
lyt_to_side_by_side_two_data(lyt, anl, alt_counts_df, side_by_side = NULL)
```

Arguments

<code>lyt</code>	layout object
<code>anl</code>	analysis data object
<code>alt_counts_df</code>	alternative data frame for counts
<code>side_by_side</code>	A logical value indicating whether to display the data side by side.

mutate_actarm	<i>Refactor active arm</i>
---------------	----------------------------

Description

Refactor active arm

Usage

```
mutate_actarm(
  df,
  arm_var = "TRT01A",
  levels = c("PLACEBO + PACLITAXEL + CISPLATIN",
             "ATEZOLIZUMAB + TIRAGOLUMAB + PACLITAXEL + CISPLATIN"),
  labels = c("Pbo+Pbo+PC", "Tira+Atezo+PC")
)
```

Arguments

df	Input dataframe
arm_var	Arm variable
levels	factor levels
labels	factor labels

na_replace	<i>Replace NAs to NA</i>
------------	--------------------------

Description

Replace NAs to NA

Usage

```
na_replace(table_df)
```

Arguments

table_df	Table dataframe
----------	-----------------

new_round	<i>Founding method</i>
-----------	------------------------

Description

Founding method

Usage

```
new_round(x, digits = 1)
```

Arguments

x	number need to be rounded
digits	number of digits

null_report	<i>Null report</i>
-------------	--------------------

Description

Null report

Usage

```
null_report()
```

Details

This will create a null report similar as `STREAM` does. You can use it inside output functions as shown in the example below.

Author(s)

Thomas Neitmann ('neitmant')

Examples

```
library(dplyr)
library(filters)
data <- list(
  adsl = eg_adsl,
  adae = eg_adae %>% mutate(AREL = "")
)

null_report()
```

```

## An example how to use the `null_report()` inside an output function
t_ae <- function(datasets) {
  trt <- "ACTARM"
  anl <- semi_join(
    datasets$adae,
    datasets$adsl,
    by = c("STUDYID", "USUBJID")
  )

  return(null_report())
}

data %>%
  apply_filter("SER_SE") %>%
  t_ae()

```

perc_perc	<i>Format of (xx%, xx%)</i>
-----------	-----------------------------

Description

Format of (xx%, xx%)

Usage

```
perc_perc(x, output)
```

Arguments

x	input array
output	output handle

ph_with_img	<i>Placeholder for ph_with_img</i>
-------------	------------------------------------

Description

Placeholder for ph_with_img

Usage

```
ph_with_img(ppt, figure, fig_width, fig_height, figure_loc)
```

Arguments

ppt	power point file
figure	image object
fig_width	width of figure
fig_height	height of figure
figure_loc	location of figure

```
preprocess_t_dd      Preprocess t_dd function
```

Description

Preprocess t_dd function

Usage

```
preprocess_t_dd(
  df,
  levels = c("PROGRESSIVE DISEASE", "ADVERSE EVENT", "OTHER", "<Missing>"),
  labels = c("Progressive Disease", "Adverse Events", "Other", "<Missing>")
)
```

Arguments

df	Input dataframe
levels	factor levels
labels	factor labels

```
preprocess_t_ds      Preprocess t_ds function
```

Description

Preprocess t_ds function

Usage

```
preprocess_t_ds(
  df,
  levels = c("Alive: On Treatment", "Alive: In Follow-up", "<Missing>"),
  labels = c("Alive: On Treatment", "Alive: In Follow-up", "<Missing>")
)
```

Arguments

df	Input dataframe
levels	factor levels
labels	factor labels

`print.decoratedGrob` *Print decorated grob*

Description

Print decorated grob

Usage

```
## S3 method for class 'decoratedGrob'  
print(x, ...)
```

Arguments

x	An object of class 'decoratedGrob'
...	not used.

`print.decoratedGrobSet`
Print decorated grob set

Description

Print decorated grob set

Usage

```
## S3 method for class 'decoratedGrobSet'  
print(x, ...)
```

Arguments

x	An object of class 'decoratedGrobSet'
...	not used.

read_spec	<i>Read yaml spec file</i>
-----------	----------------------------

Description

Read yaml spec file and split according to filter lists

Usage

```
read_spec(spec_file = "spec.yml", metadata = NULL)
```

Arguments

spec_file	'character'. Path to a yaml spec file
metadata	Metadata of study

Value

An object of class 'spec' which is a 'list' where each element corresponds to one output, e.g. 't_dm_IT'.

Author(s)

- Liming Li ('Lil128') - Thomas Neitmann ('neitmant')

Examples

```
spec_file <- system.file("spec.yml", package = "autoslider.core")

## Take a look at the 'raw' content of the spec file
cat(readLines(spec_file)[1:24], sep = "\n")

## This is how it looks once read into R
spec <- read_spec(spec_file)
spec[1:3]
```

save_output	<i>Save an Output</i>
-------------	-----------------------

Description

Save an Output

Usage

```

save_output(output, file_name, save_rds = TRUE)

save_output(output, file_name, save_rds = TRUE)

save_output.autoslider_error(output, file_name, save_rds = TRUE)

## S4 method for signature 'dVTableTree'
save_output(output, file_name, save_rds = TRUE)

save_output.decoratedGrob(output, file_name, save_rds = TRUE)

save_output.decoratedGrobSet(output, file_name, save_rds = TRUE)

save_output.dlisting(output, file_name, save_rds = TRUE)

```

Arguments

output	Output object, e.g. an 'rtable' or 'grob'
file_name	Full path of the new file <i>*excluding*</i> the extension
save_rds	Saved as an '.rds' files

Details

Tables are saved as RDS file

Value

The input 'object' invisibly

Examples

```

library(dplyr)
adsl <- eg_adsl %>%
  filter(SAFFL == "Y") %>%
  mutate(TRT01P = factor(TRT01P, levels = c("A: Drug X", "B: Placebo")))
output_dir <- tempdir()
t_dm_slide(adsl, "TRT01P", c("SEX", "AGE", "RACE", "ETHNIC", "COUNTRY")) %>%
  decorate(
    title = "Demographic table",
    footnote = ""
  ) %>%
  save_output(
    file_name = file.path(output_dir, "t_dm_SE"),
    save_rds = TRUE
  )

```

save_outputs	<i>Save a list of outputs</i>
--------------	-------------------------------

Description

Save a list of outputs

Usage

```
save_outputs(  
  outputs,  
  outfolder = file.path("output"),  
  generic_suffix = NULL,  
  save_rds = TRUE,  
  verbose_level = 1  
)
```

Arguments

outputs	'list' of outputs as created by 'generate_outputs'
outfolder	Folder in which to store the 'outputs'
generic_suffix	generic suffix. must be length 1 character or NULL.
save_rds	Should the input 'outputs' be saved as '.rds' files in addition to '.out' or '.pdf' files? Defaults to 'FALSE'.
verbose_level	Level of verbose information displayed. Default set to '1'.

Examples

```
## As `save_outputs` is the last step in the pipeline we have to run  
## the 'whole machinery' in order to show its functionality. Also take a look  
## at the `AutoslideR-Demo` repo on code.roche.com.  
library(dplyr, warn.conflicts = FALSE)  
  
data <- list(  
  adsl = eg_adsl,  
  adae = eg_adae,  
  adtte = eg_adtte  
)  
  
filters::load_filters(  
  yaml_file = system.file("filters.yml", package = "autoslider.core"),  
  overwrite = TRUE  
)  
  
## For this example the outputs will be saved in a temporary directory. In a  
## production run this should be the reporting event's 'output' folder instead.  
output_dir <- tempdir()
```

```
spec_file <- system.file("spec.yml", package = "autoslider.core")
read_spec(spec_file) %>%
  filter_spec(program == "t_dm_slide") %>%
  generate_outputs(datasets = data) %>%
  decorate_outputs() %>%
  save_outputs(outfolder = output_dir)
```

slides_preview *Generate flextable for preview first page*

Description

Generate flextable for preview first page

Usage

```
slides_preview(x)
```

Arguments

x rtables or data.frame

Examples

```
# Example 1. preview table
library(dplyr)
adsl <- eg_adsl
t_dm_slide(adsl, "TRT01P", c("SEX", "AGE")) %>% slides_preview()
```

s_proportion_1 *survival proportion afun*

Description

survival proportion afun

Usage

```
s_proportion_1(
  x,
  conf_level = 0.95,
  method = c("waldcc", "wald", "clopper-pearson", "wilson", "agresti-coull", "jeffreys"),
  long = FALSE
)
```

Arguments

x	data vector
conf_level	confidence level
method	type of method for calculation
long	flag

s_surv_time_1	<i>survival time afun</i>
---------------	---------------------------

Description

survival time afun

Usage

```
s_surv_time_1(df, .var, is_event, control = control_surv_time())
```

Arguments

df	data
.var	variable of interest
is_event	vector indicating event
control	‘control_surv_time()’ by default

table_to_slide	<i>Add decorated flextable to slides</i>
----------------	--

Description

Add decorated flextable to slides

Usage

```
table_to_slide(
  ppt,
  content,
  decor = TRUE,
  table_loc = ph_location_type("body"),
  ...
)
```

Arguments

ppt	Slide
content	Content to be added
decor	Should table be decorated
table_loc	Table location
...	additional arguments

Value

Slide with added content

to_flextable	<i>s3 method for to_flextable</i>
--------------	-----------------------------------

Description

s3 method for to_flextable

Usage

```
to_flextable(x, ...)
```

Arguments

x	object to to_flextable
...	additional arguments passed to methods

to_flextable.data.frame	<i>convert data.frame to flextable</i>
-------------------------	--

Description

convert data.frame to flextable

Usage

```
## S3 method for class 'data.frame'
to_flextable(
  x,
  col_width = NULL,
  table_format = orange_format,
  dose_template = FALSE,
  font_size = 9,
  ...
)
```

```
to_flextable.Ddataframe
```

To flextable

Description

Convert the dataframe into flextable, and merge the cells that have colspan > 1. align the columns to the middle, and the row.names to the left. indent the row.names by 10 times indentation.

Usage

```
## S3 method for class 'Ddataframe'
to_flextable(x, lpp, table_format = table_format, ...)
```

```
## S3 method for class 'Ddataframe'
to_flextable(x, lpp, table_format = table_format, ...)
```

Arguments

x	dataframe
lpp	{lpp} from {paginate_table}. numeric. Maximum lines per page
table_format	Table format
...	arguments passed to program

Details

convert the dataframe object into flextable, and merge the cells that have colspan > 1. align the columns to the middle, and the row.names to the left. indent the row.names by 10 times indentation. titles are added in headerlines, footnotes are added in footer lines, The width of the columns are aligned based on autofit() of officer function. For paginated table, the width of the 1st column are set as the widest 1st column among paginated tables

```
to_flextable.default default method to to_flextable
```

Description

default method to to_flextable

Usage

```
## Default S3 method:
to_flextable(x, ...)
```

Arguments

x object to to_flexable
 ... additional arguments. not used.

to_flexable.dlisting *convert listing to flextable*

Description

convert listing to flextable

Usage

```
## S3 method for class 'dlisting'
to_flexable(x, cpp, lpp, ...)
```

to_flexable.dVTableTree
 To flextable

Description

To flextable

Usage

```
## S3 method for class 'dVTableTree'
to_flexable(x, lpp, cpp, ...)
```

Arguments

x decorated rtable(dVTableTree) object
 lpp {lpp} from [paginate_table](#). numeric. Maximum lines per page
 ... argument parameters

Details

convert the VTableTree object into flextable, and merge the cells that have colspan > 1. align the columns to the middle, and the row.names to the left. indent the row.names by 10 times indentation. titles are added in headerlines, footnotes are added in footer lines, The width of the columns are aligned based on autofit() of officer function. For paginated table, the width of the 1st column are set as the widest 1st column among paginated tables

to_flextable.VTableTree
Covert rtables object to flextable

Description

Covert rtables object to flextable

Usage

```
## S3 method for class 'VTableTree'  
to_flextable(x, table_format = orange_format, ...)
```

Arguments

x rtable(VTableTree) object
table_format a function that decorate a flextable and return a flextable

to_vector *Convert list of numbers to vectors*

Description

Convert list of numbers to vectors

Usage

```
to_vector(num_list)
```

Arguments

num_list list of numbers

trim_perc	<i>Format of xx.xx (xx.x)</i>
-----------	-------------------------------

Description

Format of xx.xx (xx.x)

Usage

```
trim_perc(x, output)
```

Arguments

x	input array
output	output handle

trim_perc1	<i>Format of xx.xx (xx.xx)</i>
------------	--------------------------------

Description

Format of xx.xx (xx.xx)

Usage

```
trim_perc1(x, output)
```

Arguments

x	input array
output	output handle

t_aesi_slide	<i>Table of AEs of Special Interest adapted from https://insightsengineering.github.io/tlg-catalog/stable/tables/adverse-events/aet01_aesi.html</i>
--------------	--

Description

Table of AEs of Special Interest adapted from https://insightsengineering.github.io/tlg-catalog/stable/tables/adverse-events/aet01_aesi.html

Usage

```
t_aesi_slide(adsl, adae, aesi, arm = "ACTARM", grad_var = "AETOXGR")
```

Arguments

adsl	ADSL data set, dataframe
adae	ADAE data set, dataframe.
aesi	AESI variable which will act as a filter to select the rows required to create the table. An example of AESI variable is CQ01NAM.
arm	Arm variable, character, "ACTARM" by default.
grad_var	Grading variable, character, "AETOXGR" by default.

Value

rtables object

Author(s)

Kai Xiang Lim ('limk43')

Examples

```
library(dplyr)
adsl <- eg_adsl
adae <- eg_adae
adae_atoxgr <- adae %>% dplyr::mutate(ATOXGR = AETOXGR)
t_aesi_slide(adsl, adae, aesi = "CQ01NAM")
t_aesi_slide(adsl, adae, aesi = "CQ01NAM", arm = "ARM", grad_var = "AESEV")
t_aesi_slide(adsl, adae_atoxgr, aesi = "CQ01NAM", grad_var = "ATOXGR")
```

t_ae_pt_diff_slide	<i>Adverse event table</i>
--------------------	----------------------------

Description

Adverse event table

Usage

```
t_ae_pt_diff_slide(
  adsl,
  adae,
  arm = "TRT01A",
  cutoff = NA,
  split_by_study = FALSE,
  side_by_side = NULL
)
```

Arguments

adsl	ADSL data set, dataframe
adae	ADAE data set, dataframe
arm	Arm variable, character, "TRT01A" by default.
cutoff	Cutoff threshold
split_by_study	Split by study, building structured header for tables
side_by_side	"GlobalAsia" or "GlobalAsiaChina" to define the side by side requirement

Value

rtables object

Note

* Default arm variables are set to "TRT01A" for safety output, and "TRT01P" for efficacy output

Examples

```
library(dplyr)
adsl <- eg_adsl %>%
  dplyr::mutate(TRT01A = factor(TRT01A, levels = c("A: Drug X", "B: Placebo")))
adae <- eg_adae %>%
  dplyr::mutate(
    TRT01A = factor(TRT01A, levels = c("A: Drug X", "B: Placebo")),
    ATOXGR = AETOXGR
  )
out <- t_ae_pt_diff_slide(adsl, adae, "TRT01A", 2)
print(out)
generate_slides(out, paste0(tempdir(), "/ae_diff.pptx"))
```

t_ae_pt_slide	<i>Adverse event table</i>
---------------	----------------------------

Description

Adverse event table

Usage

```
t_ae_pt_slide(
  adsl,
  adae,
  arm = "TRT01A",
  cutoff = NA,
  prune_by_total = FALSE,
  split_by_study = FALSE,
  side_by_side = NULL
)
```

Arguments

adsl	ADSL data set, dataframe
adae	ADAE data set, dataframe
arm	Arm variable, character, "TRT01A" by default.
cutoff	Cutoff threshold
prune_by_total	Prune according total column
split_by_study	Split by study, building structured header for tables
side_by_side	A logical value indicating whether to display the data side by side.

Value

rtables object

Note

* Default arm variables are set to "TRT01A" for safety output, and "TRT01P" for efficacy output

Examples

```
library(dplyr)
# Example 1
adsl <- eg_adsl %>%
  dplyr::mutate(TRT01A = factor(TRT01A, levels = c("A: Drug X", "B: Placebo")))
adae <- eg_adae %>%
  dplyr::mutate(
    TRT01A = factor(TRT01A, levels = c("A: Drug X", "B: Placebo")),
```

```

      ATOXGR = AETOXGR
    )
  out <- t_ae_pt_slide(adsl, adae, "TRT01A", 2)
  print(out)
  generate_slides(out, "ae.pptx")

  # Example 2, prune by total column
  out2 <- t_ae_pt_slide(adsl, adae, "TRT01A", 25, prune_by_total = TRUE)
  print(out2)
  generate_slides(out, paste0(tempdir(), "/ae2.pptx"))

```

t_ae_pt_soc_diff_slide

Adverse event table

Description

Adverse event table

Usage

```

t_ae_pt_soc_diff_slide(
  adsl,
  adae,
  arm = "TRT01A",
  cutoff = NA,
  split_by_study = FALSE,
  side_by_side = NULL
)

```

Arguments

adsl	ADSL data set, dataframe
adae	ADAE data set, dataframe
arm	Arm variable, character, "TRT01A" by default.
cutoff	Cutoff threshold
split_by_study	Split by study, building structured header for tables
side_by_side	"GlobalAsia" or "GlobalAsiaChina" to define the side by side requirement

Value

rtables object

Note

* Default arm variables are set to "TRT01A" for safety output, and "TRT01P" for efficacy output

Examples

```

library(dplyr)
adsl <- eg_adsl %>%
  dplyr::mutate(TRT01A = factor(TRT01A, levels = c("A: Drug X", "B: Placebo")))
adae <- eg_adae %>%
  dplyr::mutate(
    TRT01A = factor(TRT01A, levels = c("A: Drug X", "B: Placebo")),
    ATOXGR = AETOXGR
  )
out <- t_ae_pt_soc_diff_slide(adsl, adae, "TRT01A", 2)
print(out)
generate_slides(out, paste0(tempdir(), "/ae_diff.pptx"))

```

t_ae_pt_soc_slide	<i>Adverse event table</i>
-------------------	----------------------------

Description

Adverse event table

Usage

```

t_ae_pt_soc_slide(
  adsl,
  adae,
  arm,
  cutoff = NA,
  prune_by_total = FALSE,
  split_by_study = FALSE,
  side_by_side = NULL
)

```

Arguments

adsl	ADSL data set, dataframe
adae	ADAE data set, dataframe
arm	Arm variable, character
cutoff	Cutoff threshold
prune_by_total	Prune according total column
split_by_study	Split by study, building structured header for tables
side_by_side	"GlobalAsia" or "GlobalAsiaChina" to define the side by side requirement

Value

rtables object

Examples

```

library(dplyr)
# Example 1
adsl <- eg_adsl %>%
  dplyr::mutate(TRT01A = factor(TRT01A, levels = c("A: Drug X", "B: Placebo")))
adae <- eg_adae %>%
  dplyr::mutate(
    TRT01A = factor(TRT01A, levels = c("A: Drug X", "B: Placebo")),
    ATOXGR = AETOXGR
  )
out <- t_ae_pt_soc_slide(adsl, adae, "TRT01A", 2)
print(out)
generate_slides(out, "ae.pptx")

# Example 2, prune by total column
out2 <- t_ae_pt_soc_slide(adsl, adae, "TRT01A", 25, prune_by_total = TRUE)
print(out2)
generate_slides(out2, paste0(tempdir(), "/ae2.pptx"))

```

t_ae_slide

*Adverse event table***Description**

Adverse event table

Usage

```

t_ae_slide(
  adsl,
  adae,
  arm = "TRT01A",
  split_by_study = FALSE,
  side_by_side = NULL
)

```

Arguments

adsl	ADSL data set, dataframe
adae	ADAE data set, dataframe
arm	Arm variable, character, "TRT01A" by default.
split_by_study	Split by study, building structured header for tables
side_by_side	should table be displayed side by side

Value

rtables object

Note

* Default arm variables are set to "TRT01A" for safety output, and "TRT01P" for efficacy output

Examples

```
library(dplyr)
adsl <- eg_adsl %>%
  dplyr::mutate(TRT01A = factor(TRT01A, levels = c("A: Drug X", "B: Placebo")))
adae <- eg_adae %>%
  dplyr::mutate(
    TRT01A = factor(TRT01A, levels = c("A: Drug X", "B: Placebo")),
    ATOXGR = AETOXGR
  )
out <- t_ae_slide(adsl, adae, "TRT01A")
print(out)
generate_slides(out, paste0(tempdir(), "/ae.pptx"))
```

t_ae_summ_slide	<i>Adverse event summary table</i>
-----------------	------------------------------------

Description

Adverse event summary table

Usage

```
t_ae_summ_slide(
  adsl,
  adae,
  arm = "TRT01A",
  dose_adjust_flags = NA,
  dose_adjust_labels = NA,
  gr34_highest_grade_only = TRUE
)
```

Arguments

adsl	ADSL dataset, dataframe
adae	ADAE dataset, dataframe
arm	Arm variable, character, "TRT01A" by default.
dose_adjust_flags	Character or a vector of characters. Each character is a variable name in adae dataset. These variables are Logical vectors which flag AEs leading to dose adjustment, such as drug discontinuation, dose interruption and reduction. The flag can be related to any drug, or a specific drug.

dose_adjust_labels

Character or a vector of characters. Each character represents a label displayed in the AE summary table (e.g. AE leading to discontinuation from drug X). The order of the labels should match the order of variable names in dose_adjust_flags.

gr34_highest_grade_only

A logical value. Default is TRUE, such that only patients with the highest AE grade as 3 or 4 are included for the count of the "Grade 3-4 AE" and "Treatment-related Grade 3-4 AE" ; set it to FALSE if you want to include patients with the highest AE grade as 5.

Value

an rtables object

Examples

```
library(dplyr)
ADSL <- eg_adsl
ADAE <- eg_adae

ADAE <- ADAE %>%
  dplyr::mutate(ATOXGR = AETOXGR)
t_ae_summ_slide(adsl = ADSL, adae = ADAE)

# add flag for ae leading to dose reduction
ADAE$reduce_flg <- ifelse(ADAE$AEACN == "DOSE REDUCED", TRUE, FALSE)
t_ae_summ_slide(
  adsl = ADSL, adae = ADAE,
  dose_adjust_flags = c("reduce_flg"),
  dose_adjust_labels = c("AE leading to dose reduction of drug X")
)
# add flgs for ae leading to dose reduction, drug withdraw and drug interruption
ADAE$withdraw_flg <- ifelse(ADAE$AEACN == "DRUG WITHDRAWN", TRUE, FALSE)
ADAE$interrup_flg <- ifelse(ADAE$AEACN == "DRUG INTERRUPTED", TRUE, FALSE)
out <- t_ae_summ_slide(
  adsl = ADSL, adae = ADAE, arm = "TRT01A",
  dose_adjust_flags = c("withdraw_flg", "reduce_flg", "interrup_flg"),
  dose_adjust_labels = c(
    "AE leading to discontinuation from drug X",
    "AE leading to drug X reduction",
    "AE leading to drug X interruption"
  )
)
print(out)
generate_slides(out, paste0(tempdir(), "/ae_summary.pptx"))
```

Description

Death table

Usage

```
t_dd_slide(adsl, arm = "TRT01A", split_by_study = FALSE, side_by_side = NULL)
```

Arguments

adsl	ADSL data set, dataframe
arm	Arm variable, character, "TRT01A" by default.
split_by_study	Split by study, building structured header for tables
side_by_side	used for studies in China. "GlobalAsia" or "GlobalAsiaChina" to define the side by side requirement.

Value

rtables object

Note

* Default arm variables are set to "TRT01A" for safety output, and "TRT01P" for efficacy output

Examples

```
library(dplyr)
adsl <- eg_adsl %>% preprocess_t_dd()
out1 <- t_dd_slide(adsl, "TRT01A")
print(out1)
generate_slides(out1, paste0(tempdir(), "/dd.pptx"))

out2 <- t_dd_slide(adsl, "TRT01A", split_by_study = TRUE)
print(out2)
```

t_dm_slide

Demographic table

Description

Demographic table

Usage

```
t_dm_slide(  
  adsl,  
  arm = "TRT01P",  
  vars = c("AGE", "SEX", "RACE"),  
  stats = c("median", "range", "count_fraction"),  
  split_by_study = FALSE,  
  side_by_side = NULL  
)
```

Arguments

adsl	ADSL data set, dataframe
arm	Arm variable, character, "TRT01P" by default.
vars	Characters of variables
stats	see '.stats' from [tern::analyze_vars()]
split_by_study	Split by study, building structured header for tables
side_by_side	"GlobalAsia" or "GlobalAsiaChina" to define the side by side requirement

Value

rtables object

Note

* Default arm variables are set to "TRT01A" for safety output, and "TRT01P" for efficacy output

Examples

```
library(dplyr)  
adsl <- eg_adsl  
out1 <- t_dm_slide(adsl, "TRT01P", c("SEX", "AGE", "RACE", "ETHNIC", "COUNTRY"))  
print(out1)  
generate_slides(out1, paste0(tempdir(), "/dm.pptx"))  
  
out2 <- t_dm_slide(adsl, "TRT01P", c("SEX", "AGE", "RACE", "ETHNIC", "COUNTRY"),  
  split_by_study = TRUE  
)  
print(out2)
```

t_dor_slide	<i>DOR table</i>
-------------	------------------

Description

DOR table

Usage

```
t_dor_slide(adsl, adtte, arm = "TRT01P", refgroup = NULL)
```

Arguments

adsl	ADSL dataset
adtte	ADTTE dataset
arm	Arm variable, character, "TRT01P" by default.
refgroup	Reference group

Note

* Default arm variables are set to "TRT01A" for safety output, and "TRT01P" for efficacy output

Examples

```
library(dplyr)
adsl <- eg_adsl %>%
  dplyr::mutate(TRT01P = factor(TRT01P, levels = c("A: Drug X", "B: Placebo", "C: Combination")))
adtte <- eg_adtte %>%
  dplyr::filter(PARAMCD == "OS") %>%
  dplyr::mutate(TRT01P = factor(TRT01P, levels = c("A: Drug X", "B: Placebo", "C: Combination")))
out <- t_dor_slide(adsl, adtte)
print(out)
generate_slides(out, paste0(tempdir(), "/dor.pptx"))
```

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