Package 'datacleanr'

October 13, 2022

```
Title Interactive and Reproducible Data Cleaning
```

Version 1.0.3

Description Flexible and efficient cleaning of data with interactivity.

'datacleanr' facilitates best practices in data analyses and reproducibility with builtin features and by translating interactive/manual operations to code.

The package is designed for interoperability, and so seamlessly fits into reproducible analyses pipelines in 'R'.

License GPL-3

```
Suggests testthat (>= 2.1.0)
```

Encoding UTF-8

RoxygenNote 7.1.2

URL https://github.com/the-Hull/datacleanr

```
BugReports https://github.com/the-Hull/datacleanr/issues
```

```
Imports shiny (>= 1.5.0), htmltools (>= 0.5), summarytools (>= 0.9.6), dplyr (>= 1.0.2), rlang (>= 0.4.9), DT (>= 0.16), magrittr (>= 2.0.1), plotly (>= 4.9.2.1), grDevices, stats, purrr (>= 0.3.4), glue (>= 1.4.2), formatR (>= 1.7), RColorBrewer (>= 1.1.2), clipr (>= 0.7.1), rstudioapi (>= 0.13), utils, lubridate (>= 1.7.9.2), shinyWidgets (>= 0.5.4), htmlwidgets (>= 1.5.3), tools, fs (>= 1.5.0), shinyFiles (>= 0.8.0), bslib
```

Depends R (>= 3.6)

NeedsCompilation no

```
Author Alexander Hurley [cre, aut, cph]
```

```
(<https://orcid.org/0000-0002-9641-2805>),
Richard Peters [ctb] (<https://orcid.org/0000-0002-7441-1297>),
```

Christoforos Pappas [ctb] (https://orcid.org/0000-0001-5721-557X)

Maintainer Alexander Hurley <agl.hurley@gmail.com>

Repository CRAN

Date/Publication 2021-11-18 11:30:02 UTC

R topics documented:

apply_data_set_up	3
calc_limits_per_groups	3
can_internet	4
check_individual_statement	4
datacleanr_server	5
dcr_app	5
dcr_checks	7
extend_palette	8
filter_scoped	8
filter_scoped_df	9
get_factor_cols_idx	10
handle_add_outlier_trace	10
handle_restyle_traces	11
handle_sel_outliers	12
hide_trace_idx	13
make_group_table	13
make_save_filepath	14
module_server_apply_reset	14
module_server_box_str_filter	15
module_server_checkbox	15
module_server_df_filter	16
module_server_extract_code	16
module_server_extract_code_fileconfig	17
module_server_filter_str	18
module_server_group_relayout_buttons	18
module_server_group_select	19
module_server_group_selector_table	19
module_server_histograms	20
module_server_lowercontrol_btn	
module_server_plot_annotation_table	
module_server_plot_selectable	
module_server_plot_selectorcontrols	
module_server_summary	
module_server_text_annotator	
module_ui_apply_reset	
module_ui_box_str_filter	25
module ui checkbox	25
module_ui_df_filter	26
module_ui_extract_code	26
module_ui_extract_code_fileconfig	27
module_ui_filter_str	27
module_ui_group_relayout_buttons	27
module_ui_group_select	28
module_ui_group_selector_table	28
module_ui_histograms	28
module ui lowercontrol htn	29

apply_data_set_up 3

	module_ui_plot_annotation_table	29
	module_ui_plot_selectable	29
	module_ui_plot_selectorcontrols	30
	module_ui_summary	30
	module_ui_text_annotator	30
	print.dcr_code	31
	split_groups	31
Index		32

apply_data_set_up

Applies grouping to data set conditionally

Description

Applies grouping to data set conditionally

Usage

```
apply_data_set_up(df, group)
```

Arguments

df data frame

group supply reactive output from group selector

Value

returns df either grouped or not

```
calc_limits_per_groups
```

Return x and y limits of "group-subsetted" dframe

Description

Used for adjusting layout of plotly plot based on selected groups in group_selector_table; currently used in viz tab

Usage

```
calc_limits_per_groups(dframe, group_index, xvar, yvar, scaling = 0.02)
```

Arguments

dframe dataframe/tibble, grouped/ungrouped

group_index numeric, group indices for which to return lims

xvar character, name of x var for plot (must exist in dframe)
yvar character, name of y var for plot (must exist in dframe)

scaling numeric, 1 +/- scaling times limits

Value

list with xlim and ylim

can_internet

Check for internet connection

Description

Check for internet connection

Usage

```
can_internet(url = "http://www.google.com")
```

Arguments

url

character, valid path to url - user responsible

Value

logical - TRUE or FALSE

 $check_individual_statement$

check if a filter statement is valid

Description

check if a filter statement is valid

Usage

```
check_individual_statement(df, statement)
```

datacleanr_server 5

Arguments

df data frame / tibble to be filtered

statement character string,

Value

logical, did filter statement work?

datacleanr_server

datacleanr server function

Description

datacleanr server function

Usage

```
datacleanr_server(input, output, session, dataset, df_name, is_on_disk)
```

Arguments

input, output, session

standard shiny boilerplate

data.frame, tibble or data.table that needs cleaning

df_name character, name of dataset or file_path passed into shiny app

is_on_disk logical, whether df was read from file

dcr_app

Interactive and reproducible data cleaning

Description

Launches the datacleanr app for interactive and reproducible cleaning. See Details for more information.

Usage

```
dcr_app(dframe, browser = TRUE)
```

Arguments

dframe Character, a string naming a data.frame, tbl or data.table in the environ-

ment or a path to a .Rds file. Note, that data. tables are converted to tibbles

internally.

browser logical, should app start in OS's default browser? (default TRUE)

6 dcr_app

Details

datacleanr provides an interactive data overview, and allows reproducible filtering and (manual, interactive) visual outlier detection and annotation across multiple app tabs:

- Overview and Set-up: set groups (see below) and generate a exploratory summary of dframe
- Filtering: Provide and apply filter statements (groupwise, see below and filter_scoped_df)
- **Visualization and Annotating**: interactive visualization allowing outlier highlighting, annotating and before/after histograms of displayed (numeric) variables
- Extraction: generates Reproducible Recipe and outputs

For data sets exceeding 1.5 million rows, we suggest splitting the data, if possible, by a grouping factor. This is because at this volume interactive visualizations using plotly stretch the limits of what modern web browsers can handle. A simple example using iris is:

```
iris_split <- split(iris, iris$Species)
dcr_app(iris_split[[1]])
# or
lapply(iris_split, dcr_app)</pre>
```

Extensive documentation is provided on each of the tabs for individual procedures in help links. datacleanr relies on 1) generating a column of unique IDs (.dcrkey) and subsetting dframe into sub-groups (generated in-app, added as column .dcrindex) for filtering and visualization. These groups are composed of unique combinations of columns in the data set (must be factor) and are passed to group_by, and are carried through the app for exploratory analyses (tab **Overview and Set-up**), filtering (tab **Filtering**) and plotting (tab **Visualization**). These groups should ideally be chosen to facilitate a convenient filtering and viewing/cleaning process. For example, a data set with time series of multiple sensors could be grouped by sensor and/or additional columns, such that periods of interest can be visualized and cleaned simultaneously in the interactive plot.

Filtering is achieved by providing expressions that evaluate to TRUE \ FALSE, and can be applied to the entire data set, or individual/all groups via scoped filtering (see filter_scoped_df).

The interactive visualization allows selecting and deselecting points with lasso and box select tools, as well as interactive zooming (toolbar or clicking on legend items or group overview table, see tab in-app) as well as panning (toolbar and hover over plot's axes). Data formats supported are

- 1. Observational (numeric), timeseries (POSIXct) and categorical data in x and y dimensions/axis
- 2. Observational (numeric) data in z dimension (point size)
- 3. Spatial data, when lon and lat in decimal degrees are present in x and y.

Displaying spatial data requires a Mapbox account, from which an access token needs to be copied into your .Renviron (e.g. MAPBOX_TOKEN=your_copied_token).

Note, that when a column .dcrflag (logical, TRUE \ FALSE) is present in dframe, respective observations are given contrasting symbols (FALSE = circle, TRUE = star-triangle). This column is employed as a cross-referencing tool for e.g. other outlier detection or data-processing algorithms that were applied prior.

The tab **Extraction** provides code to reproduce the entire procedure (a *Reproducible Recipe*), which

dcr_checks 7

1. can be copied, or sent directly to an active RStudio script when used interactively (i.e. when dframe is an object in R's environment),

2. can be saved to disk with intermediate outputs (filter statements and selected outliers), where file names are based on the input file and configurable suffixes when dframe is a path.

Value

When datacleanr is ended by clicking on Close in the app's navigation bar, a list is **invisibly** returned with the following items:

- 1. **df_name**: character, object name/file path passed into dcr_app
- 2. **dcr_df**: tibble, filtered data set **with** additional columns .dcrkey, .dcrindex, .annotation the latter is NA for non-outliers, an empty string for outliers without annotation, and a custom string for annotated outliers
- 3. **dcr_selected_outliers**: data.frame, contains the outlier .dcrkey, the .annotation and a selection_count (integer, count incrementer) column
- 4. dcr_groups: character, a vector defining the groups (via group_by) used throughout datacleanr
- 5. **dcr_condition_df**: tibble, with columns filter (character, statement used for filtering) and group (list, of integers), defining groups that correspond to .dcrindex
- 6. **dcr_code**: character string, containing *Reproducible Recipe*

dcr_checks

Initial checks for data set

Description

Initial checks for data set

Usage

dcr_checks(dframe)

Arguments

dframe

dframe supplied to dcr_app

8 filter_scoped

extend_palette

extend brewer palette

Description

extend brewer palette

Usage

```
extend_palette(n)
```

Arguments

n

numeric, number of colors

Value

color vector of length n

filter_scoped

Apply filter based on a statement, scoped to dplyr groups

Description

Apply filter based on a statement, scoped to dplyr groups

Usage

```
filter_scoped(dframe, statement, scope_at = NULL)
```

Arguments

dframe

data.frame/tbl, grouped or ungrouped

statement

character, statement for filtering (only VALID expressions; use check_individual_statement

to grab only valid.

scope_at

numeric, group indices to apply filter statements to

Value

List, containing item filtered_df, a data.frame filtered based on statements and scope.

filter_scoped_df 9

filter_scoped_df Filter/Subset data dplyr-groupwise

Description

filter_scoped_df subsets rows of a data frame based on grouping structure (see group_by). Filtering statements are provided in a separate tibble where each row represents a combination of a logical expression and a list of groups to which the expression should be applied to corresponding to see indices from cur_group_id).

Usage

```
filter_scoped_df(dframe, condition_df)
```

Arguments

dframe A grouped or ungrouped tibble or data.frame

condition_df A tibble with two columns; condition_df[,1] with character strings which

evaluate to valid logical expressions applicable in subset or filter, and condition_df[

,2], a list-column with group scoping levels (numeric) or NULL for unscoped filtering. If all groups are given for a statement, the operation is the same as for

a grouped data. frame in filter.

Details

This function is applied in the "Filtering" tab of the datacleanr app, and applied in the reproducible code recipe in the "Extract" tab. Note, that multiple checks for valid statements are performed in the app (and only valid operations printed in the "Extract" tab). It is therefore not advisable to manually alter this code or use this function interactively.

Value

An object of the same type as dframe. The output is a subset of the input, with groups and rows appearing in the same order, and an additional column .dcrindex representing the group indices. The output may have less groups as the input, depending on subsetting.

Examples

```
# set-up condition_df
cdf <- dplyr::tibble(
    statement = c(
        "Sepal.Width > quantile(Sepal.Width, 0.1)",
        "Petal.Width > quantile(Petal.Width, 0.1)",
        "Petal.Length > quantile(Petal.Length, 0.8)"
    ),
    scope_at = list(NULL, NULL, c(1, 2))
)
```

```
fdf <- filter_scoped_df(
  dplyr::group_by(
    iris,
    Species
  ),
  condition_df = cdf
)

# Example of invalid expression:
# column 'Spec' does not exist in iris
# "Spec == 'setosa'"</pre>
```

get_factor_cols_idx

Identify columns carrying non-numeric values

Description

Identify columns carrying non-numeric values

Usage

```
get_factor_cols_idx(x)
```

Arguments

х

data.frame

Value

logical, is column in x non-numeric?

handle_add_outlier_trace

Handle outlier trace

Description

Single outlier trace is added to plotly; interactive select/deselect was implemented by adjusting selected_points, and subsequently adding, or deleting+adding the (modified) trace at the end of the existing JS data array. Requires tracemap with trace names and corresponding indices. Simple check for re-execution was implemented by passing on the selection keys to compare against on pertinent plotly_event.

handle_restyle_traces 11

Usage

```
handle_add_outlier_trace(
    sp,
    dframe,
    ok,
    selectors,
    trace_map,
    source = "scatterselect",
    session
)
```

Arguments

```
sp selected points

dframe plot data

ok reactive, old keys

selectors reactive input selectors

trace_map numeric, max trace id

source plotly source

session active session
```

handle_restyle_traces Wrapper for adjusting axis lims and hiding traces

Description

Wrapper for adjusting axis lims and hiding traces

Usage

```
handle_restyle_traces(
    source_id,
    session,
    dframe,
    scaling = 0.05,
    xvar,
    yvar,
    trace_map,
    max_id_group_trace,
    input_sel_rows,
    flush = TRUE
)
```

12 handle_sel_outliers

Arguments

source_id character, plotly source id

session session object

dframe data frame/tibble (grouped/ungrouped)

scaling numeric, 1 +/- scaling applied to x lims for xvar and yvar

xvar character, name of xvar, must be in dframe yvar character, name of yvar, must be in dframe

trace_map matrix, with columns for trace name (col 1) and trace id (col 2)

max_id_group_trace

numeric, max id of plotly trace from original data (not outlier traces)

Value

Used for it's side effect - no return

Description

Handle selection of outliers (with select - unselect capacity)

Usage

```
handle_sel_outliers(sel_old_df, sel_new)
```

Arguments

sel_old_df data.frame of selection info

sel_new data.frame, event data from plotly, must have column customdata

Value

updated selection data frame

hide_trace_idx 13

hide_trace_idx

Provide trace ids to set to invisible

Description

Provide trace ids to set to invisible

Usage

```
hide_trace_idx(trace_map, max_groups, selected_groups)
```

Arguments

 $trace_map \hspace{1cm} matrix, with cols trace name (col 1), trace id (col 2)$

max_groups numeric, number of groups in grouptable

selected_groups

groups highlighted in grouptable

Details

Provides the indices (JS notation, starting at 0) for indices that are set to visible = 'legendonly' through plotly.restyle

make_group_table

Make grouping overview table

Description

Make grouping overview table

Usage

```
make_group_table(dframe)
```

Arguments

dframe

data.frame

Value

tibble with one row per group

make_save_filepath

Wrapper for saving files

Description

Wrapper for saving files

Usage

```
make_save_filepath(save_dir, input_filepath, suffix, ext)
```

Arguments

save_dir character, selected save dir

input_filepath character, original file path to folder

suffix character, e.g. 'CLEAN' or 'cleaning_script'

ext character, file extension, no dot!!

Value

OS-conform file path for saving

```
module_server_apply_reset
```

Server Module: apply / reset filter

Description

Server Module: apply / reset filter

Usage

```
module_server_apply_reset(input, output, session, df_filtered, df_original)
```

Arguments

```
input, \, output, \, session \,
```

standard

df_filtered reactive, filtered df df_original reactive, original df

```
module_server_box_str_filter
```

Server Module: box for str filter condition

Description

Server Module: box for str filter condition

Usage

```
module_server_box_str_filter(input, output, session, selector, actionbtn)
```

Arguments

```
input, output, session standard
```

selector character, html selector for placement

actionbtn reactive, action button counter

module_server_checkbox

Server Module: checkbox rendering

Description

Server Module: checkbox rendering

Usage

```
module_server_checkbox(input, output, session, text)
```

Arguments

```
input, output, session
```

standard shiny boilerplate

text Character, appears next to checkbox (or coerced)

```
module_server_df_filter
```

Server Module: filter info text and filtered df output

Description

Server Module: filter info text and filtered df output

Usage

```
module_server_df_filter(input, output, session, dframe, condition_df)
```

Arguments

```
input, output, session
standard shiny boilerplate

dframe data frame/tibble for filtering
condition_df data frame/tibble with filtering conditions and grouping scope
```

Value

df, either filtered or original, based on validity of statements in condition_df

```
module_server_extract_code
```

Server Module: Selection Annotator

Description

Server Module: Selection Annotator

Usage

```
module_server_extract_code(
  input,
  output,
  session,
  df_label,
  filter_df,
  gvar,
  statements,
  sel_points,
  overwrite,
  is_on_disk,
  out_path
)
```

Arguments

```
input, output, session
                  standard shiny boilerplate
                  string, name of original df input
df_label
                  reactiveValue data frame with filter statements and scoping lvl
filter_df
                  reactive character, grouping vars for dplyr::group_by
gvar
statements
                  reactive, lgl, vector of working statements
sel_points
                  reactiveValue, data frame with selected point keys, annotations, and selection
                  count
                  reacive value, TRUE/FALSE from checkbox input
overwrite
                  Logical, whether df represented by df_label was on disk or from interactive R
is_on_disk
                  reactive, List, with character strings providing directory paths and file names for
out_path
                  saving/reading in code output
```

```
module_server_extract_code_fileconfig

Server Module: Extraction File selection menu
```

Description

Server Module: Extraction File selection menu

Usage

```
module_server_extract_code_fileconfig(
  input,
  output,
  session,
  df_label,
  is_on_disk,
  has_processed
)
```

Arguments

```
input, output, session
standard shiny boilerplate

df_label character, name of original df input

is_on_disk Logical, whether df represented by df_label was on disk or from interactive R use

has_processed reactive, logical, TRUE if filtered / selected points
```

```
module_server_filter_str
```

Server Module: box for str filter condition

Description

Server Module: box for str filter condition

Usage

```
module_server_filter_str(input, output, session, dframe)
```

Arguments

```
input, output, session standard shiny boilerplate
```

dframe, data frame passed into dcr app

Details

provides UI text box element

```
module_server_group_relayout_buttons
```

Server Module: Selection Annotator

Description

Server Module: Selection Annotator

Usage

```
module_server_group_relayout_buttons(input, output, session, startscatter)
```

Arguments

```
input, output, session
```

standard shiny boilerplate

startscatter reactive, actionbutton value

Details

provides UI text box element

Value

reactive values with input xvar, yvar and actionbutton counter

```
module_server_group_select
```

Server Module: group selection

Description

Server Module: group selection

Usage

```
module_server_group_select(input, output, session, dframe)
```

Arguments

```
input, output, session standard
```

dframe data frame for filtering

```
module_server_group_selector_table
```

Server Module: box for str filter condition

Description

Server Module: box for str filter condition

Usage

```
module_server_group_selector_table(input, output, session, df, df_label, ...)
```

Arguments

```
input, output, session
```

standard shiny boilerplate

df data frame (either from overview or filtering tab)

df_label character, original input data frame
... arguments passed to datatable()

Details

provides UI text box element

```
module_server_histograms

Server Module: dynamic histogram output for n vars str filter condition
```

Description

Server Module: dynamic histogram output for n vars str filter condition

Usage

```
module_server_histograms(
  input,
  output,
  session,
  dframe,
  selector_inputs,
  sel_points
)
```

Arguments

```
input, output, session
standard shiny boilerplate

dframe df
selector_inputs
reactive vals from above-plot controls,
sel_points reactive, provides .dcrkey of selected points
```

Details

provides UI buttons for deleting last / entire outlier selection

Value

reactive values with input xvar, yvar and actionbutton counter

Description

Server Module: box for str filter condition

Usage

```
module_server_lowercontrol_btn(
  input,
  output,
  session,
  selector_inputs,
  action_track
)
```

Arguments

```
input, output, session
standard shiny boilerplate
selector_inputs
reactive vals from above-plot controls, used to determine if plot is a map (lon/lat)
action_track reactive, logical - has plot been pressed?
```

Details

provides UI buttons for deleting last / entire outlier selection

Value

reactive values with input xvar, yvar and actionbutton counter

```
{\it module\_server\_plot\_annotation\_table} \\ {\it Server\ Module:\ DT\ for\ annotation}
```

Description

Server Module: DT for annotation

Usage

```
module_server_plot_annotation_table(input, output, session, dframe, sel_points)
```

Arguments

```
input, output, session
standard shiny boilerplate

dframe df used for plotting
sel_points numeric, vector of .dcrkeys selected in plot
```

Value

df with .dcrkeys and annotations

```
module_server_plot_selectable

Server Module: box for str filter condition
```

Description

Server Module: box for str filter condition

Usage

```
module_server_plot_selectable(
  input,
  output,
  session,
  selector_inputs,
  df,
  sel_points,
  mapstyle
)
```

Arguments

Details

provides plot, note, that data set needs a column .dcrkey, added in initial processing step

Description

Server Module: box for str filter condition

Usage

```
module_server_plot_selectorcontrols(input, output, session, df)
```

Arguments

```
input, output, session standard shiny boilerplate  df \qquad \qquad df \; (not \; reactive \; - \; prevent \; re-execution \; of \; observer)
```

Details

provides UI text box element

Value

reactive values with input xvar, yvar and actionbutton counter

```
module_server_summary
Server Module: data summary
```

Description

Server Module: data summary

Usage

```
module_server_summary(
   input,
   output,
   session,
   dframe,
   df_label,
   start_clicked,
   group_var_check
)
```

Arguments

input, output, session

standard shiny boilerplate

dframe reactive, input data frame

df_label character, name of initial data set start_clicked reactive holding start action button

group_var_check

reactive holding group check output

module_server_text_annotator

Server Module: Selection Annotator

Description

Server Module: Selection Annotator

Usage

```
module_server_text_annotator(input, output, session, sel_data)
```

Arguments

input, output, session

standard shiny boilerplate

sel_data reactive df

Details

provides UI text box element

Value

reactive values with input xvar, yvar and actionbutton counter

module_ui_apply_reset 25

```
module_ui_apply_reset UI Module: Apply/Reset Filtering
```

Description

UI Module: Apply/Reset Filtering

Usage

```
module_ui_apply_reset(id)
```

Arguments

id

Character, identifier for variable selection

```
module_ui_box_str_filter
```

UI Module: box for str filter condition

Description

UI Module: box for str filter condition

Usage

```
module_ui_box_str_filter(id, actionbtn)
```

Arguments

id

Character, identifier for variable selection

actionbtn

reactive, action button counter

module_ui_checkbox

UI Module: data summary

Description

UI Module: data summary

Usage

```
module_ui_checkbox(id, cond_id)
```

Arguments

id shiny standard cond_id character,

Description

UI Module: filter info text output

Usage

```
module_ui_df_filter(id)
```

Arguments

id

character, shiny namespacing

Value

UI text element giving number of failed filters and percent of filtered rows

```
module_ui_extract_code
```

UI Module: Extraction Text output

Description

UI Module: Extraction Text output

Usage

```
module_ui_extract_code(id)
```

Arguments

id

```
module_ui_extract_code_fileconfig
```

UI Module: Extraction File selection menu

Description

UI Module: Extraction File selection menu

Usage

```
module_ui_extract_code_fileconfig(id)
```

Arguments

id

Character string

```
module_ui_filter_str
```

UI Module: box for str filter condition

Description

UI Module: box for str filter condition

Usage

```
module_ui_filter_str(id)
```

Arguments

id

Character string

```
module_ui_group_relayout_buttons
```

UI Module: Grouptable Relayout Buttons

Description

UI Module: Grouptable Relayout Buttons

Usage

```
module_ui_group_relayout_buttons(id)
```

Arguments

id

module_ui_group_select

UI Module: group selection

Description

UI Module: group selection

Usage

```
module_ui_group_select(id)
```

Arguments

id

Character, identifier for variable selection

module_ui_group_selector_table

UI Module: box for str filter condition

Description

UI Module: box for str filter condition

Usage

```
module_ui_group_selector_table(id)
```

Arguments

id

Character string

module_ui_histograms

UI Module: dynamic histogram output for n vars

Description

UI Module: dynamic histogram output for n vars

Usage

```
module_ui_histograms(id)
```

Arguments

id

```
module_ui_lowercontrol_btn
```

UI Module: Delete selection buttons

Description

UI Module: Delete selection buttons

Usage

```
module_ui_lowercontrol_btn(id)
```

Arguments

id

Character string

```
module_ui_plot_annotation_table
```

UI Module: DT for annotation

Description

UI Module: DT for annotation

Usage

```
module_ui_plot_annotation_table(id)
```

Arguments

id

Character string

```
module_ui_plot_selectable
```

UI Module: plotly plot

Description

UI Module: plotly plot

Usage

```
module_ui_plot_selectable(id)
```

Arguments

id

module_ui_plot_selectorcontrols

UI Module: selector controls

Description

UI Module: selector controls

Usage

```
module_ui_plot_selectorcontrols(id)
```

Arguments

id

Character string

module_ui_summary

UI Module: data summary

Description

UI Module: data summary

Usage

module_ui_summary(id)

Arguments

id

shiny standard

 $module_ui_text_annotator$

UI Module: Selection Annotator

Description

UI Module: Selection Annotator

Usage

module_ui_text_annotator(id)

Arguments

id

print.dcr_code 31

print.dcr_code

Method for printing dcr_code output

Description

Method for printing dcr_code output

Usage

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

Arguments

x character, code output from dcr_app
... additional arguments passed to cat

split_groups

Split data.frame/tibble based on grouping

Description

Split data.frame/tibble based on grouping

Usage

```
split_groups(dframe)
```

Arguments

dframe

data.frame

Value

list of data frames

Index

apply_data_set_up, 3	<pre>module_server_histograms, 20</pre>
	module_server_lowercontrol_btn, 21
<pre>calc_limits_per_groups, 3</pre>	<pre>module_server_plot_annotation_table,</pre>
can_internet, 4	21
<pre>check_individual_statement, 4</pre>	<pre>module_server_plot_selectable, 22</pre>
cur_group_id, 9	<pre>module_server_plot_selectorcontrols,</pre>
	23
datacleanr_server, 5	<pre>module_server_summary, 23</pre>
dcr_app, 5	<pre>module_server_text_annotator, 24</pre>
dcr_checks, 7	<pre>module_ui_apply_reset, 25</pre>
	<pre>module_ui_box_str_filter, 25</pre>
extend_palette, 8	<pre>module_ui_checkbox, 25</pre>
C:14 0	<pre>module_ui_df_filter, 26</pre>
filter, 9	<pre>module_ui_extract_code, 26</pre>
filter_scoped, 8	<pre>module_ui_extract_code_fileconfig, 27</pre>
filter_scoped_df, 6, 9	<pre>module_ui_filter_str, 27</pre>
<pre>get_factor_cols_idx, 10</pre>	<pre>module_ui_group_relayout_buttons, 27</pre>
group_by, 6, 7, 9	<pre>module_ui_group_select, 28</pre>
gr oup_by, 0, 7, 9	<pre>module_ui_group_selector_table, 28</pre>
handle_add_outlier_trace, 10	module_ui_histograms, 28
handle_restyle_traces, 11	<pre>module_ui_lowercontrol_btn, 29</pre>
handle_sel_outliers, 12	<pre>module_ui_plot_annotation_table, 29</pre>
hide_trace_idx, 13	module_ui_plot_selectable, 29
	<pre>module_ui_plot_selectorcontrols, 30</pre>
iris,6	module_ui_summary, 30
,	<pre>module_ui_text_annotator, 30</pre>
<pre>make_group_table, 13</pre>	
make_save_filepath, 14	plotly, 6
<pre>module_server_apply_reset, 14</pre>	<pre>print.dcr_code, 31</pre>
<pre>module_server_box_str_filter, 15</pre>	
module_server_checkbox, 15	split_groups, 31
<pre>module_server_df_filter, 16</pre>	subset, 9
<pre>module_server_extract_code, 16</pre>	
<pre>module_server_extract_code_fileconfig,</pre>	
17	
<pre>module_server_filter_str, 18</pre>	
<pre>module_server_group_relayout_buttons,</pre>	
18	
<pre>module_server_group_select, 19</pre>	
module server group selector table. 19	