

Package ‘datacleanr’

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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 built-in 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’.

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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>

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<code>apply_data_set_up</code>	<i>Applies grouping to data set conditionally</i>
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Description

Applies grouping to data set conditionally

Usage

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

Arguments

<code>df</code>	data frame
<code>group</code>	supply reactive output from group selector

Value

returns df either grouped or not

<code>calc_limits_per_groups</code>	<i>Return x and y limits of "group-subsetted" dframe</i>
-------------------------------------	--

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	<i>Check for internet connection</i>
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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	<i>check if a filter statement is valid</i>
----------------------------	---

Description

check if a filter statement is valid

Usage

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

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
 dataset 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 environment 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)

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)
```

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 `.Renvirom` (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

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`

extend_palette	<i>extend brewer palette</i>
----------------	------------------------------

Description

extend brewer palette

Usage

```
extend_palette(n)
```

Arguments

n	numeric, number of colors
---	---------------------------

Value

color vector of length n

filter_scoped	<i>Apply filter based on a statement, scoped to dplyr groups</i>
---------------	--

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	<i>Filter / Subset data dplyr-groupwise</i>
------------------	---

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

<code>dframe</code>	A grouped or ungrouped tibble or <code>data.frame</code>
<code>condition_df</code>	A tibble with two columns; <code>condition_df[, 1]</code> with character strings which evaluate to valid logical expressions applicable in subset or filter , and <code>condition_df[, 2]</code> , 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 <code>data.frame</code> 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 `.dcr_index` 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'"

```

```

get_factor_cols_idx  Identify columns carrying non-numeric values

```

Description

Identify columns carrying non-numeric values

Usage

```
get_factor_cols_idx(x)
```

Arguments

x 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`.

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  
)
```

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)
input_sel_rows	numeric, input from DT grouptable
flush	character, plotlyProxy settings

Value

Used for it's side effect - no return

handle_sel_outliers *Handle selection of outliers (with select - unselect capacity)*

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	<i>Provide trace ids to set to invisible</i>
----------------	--

Description

Provide trace ids to set to invisible

Usage

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

Arguments

trace_map	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	<i>Make grouping overview table</i>
------------------	-------------------------------------

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

Server Module: Selection Annotator

Description

Server Module: Selection Annotator

Usage

```
module_server_group_layout_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**

<code>input, output, session</code>	standard
<code>dframe</code>	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**

<code>input, output, session</code>	standard shiny boilerplate
<code>df</code>	data frame (either from overview or filtering tab)
<code>df_label</code>	character, original input data frame
<code>...</code>	arguments passed to <code>datatable()</code>

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

`module_server_lowercontrol_btn`*Server Module: box for str filter condition*

Description

Server Module: box for str filter condition

Usage

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

Arguments

<code>input, output, session</code>	standard shiny boilerplate
<code>selector_inputs</code>	reactive vals from above-plot controls, used to determine if plot is a map (lon/lat)
<code>action_track</code>	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

`module_server_plot_annotation_table`*Server Module: DT for annotation*

Description

Server Module: DT for annotation

Usage

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

`module_server_plot_selectorcontrols`*Server Module: box for str filter condition*

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                 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 *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,

module_ui_df_filter *UI Module: filter info text output*

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 Character string

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: Groupable Relayout Buttons

Description

UI Module: Groupable Relayout Buttons

Usage

module_ui_group_relayout_buttons(id)

Arguments

id Character string

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 Character string

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 Character string

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 Character string

print.dcr_code	<i>Method for printing dcr_code output</i>
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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	<i>Split data.frame/tibble based on grouping</i>
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Description

Split data.frame/tibble based on grouping

Usage

```
split_groups(dframe)
```

Arguments

dframe	data.frame
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Value

list of data frames

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