

Package ‘dataviewR’

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Title An Interactive and Feature-Rich Data Viewer

Version 1.0.0

Depends R (>= 4.2.0)

Description Provides an interactive viewer for 'data.frame' and 'tibble' objects using 'shiny' <<https://shiny.posit.co/>> and 'DT' <<https://rstudio.github.io/DT/>>. It supports complex filtering, column selection, and automatic generation of reproducible 'dplyr' <<https://dplyr.tidyverse.org/>> code for data manipulation. The package is designed for ease of use in data exploration and reporting workflows.

URL <https://github.com/madhankumarnagaraji/dataviewR>,
<https://madhankumarnagaraji.github.io/dataviewR/>

BugReports <https://github.com/madhankumarnagaraji/dataviewR/issues>

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Encoding UTF-8

RoxygenNote 7.3.2

Imports shiny, shinyjs, DT, dplyr, labelled, forcats, stringr, purrr,
tibble, datamods, htmlwidgets, callr, rstudioapi

Suggests knitr, rmarkdown, testthat (>= 3.0.0), shinytest2

VignetteBuilder knitr

Config/testthat/edition 3

NeedsCompilation no

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Contents

dataviewer	2
list_dataviewers	3
stop_all_dataviewers	4
stop_dataviewer	4
Index	5

dataviewer	<i>Interactive Data Viewer with Filter and Code Generation</i>
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Description

Launches a Shiny application to explore and filter a `data.frame` or `tibble`. If no data is provided, it opens an import panel to load a dataset from either the global environment or the packages.

Usage

```
dataviewer(..., background = NULL, port = NULL)
```

Arguments

...	One or more <code>data.frame</code> or <code>tibble</code> objects. If none provided, an import UI is shown to load data interactively.
background	Logical. If <code>TRUE</code> , runs the app in a background R process using <code>callr</code> . Requires the <code>callr</code> package. Default is <code>TRUE</code> when dataset(s) are provided, <code>FALSE</code> when no dataset(s) are provided.
port	Integer. Port number for the Shiny app. If <code>NULL</code> , a random available port is used. Default is <code>NULL</code> .

Details

This function provides:

- A tab-based interface with data import and viewer options.
- Support for multiple datasets in separate tabs.
- A checkbox panel to select/deselect columns.
- An input for `dplyr`-compatible filter expressions.
- A dynamically generated `dplyr` code preview.
- Metadata display for the variables.

The filtering uses `dplyr::filter()` and generates user-friendly code to replicate the steps. It also provides copyable R code that includes column selection and filtering logic.

Value

If background = TRUE, returns the process ID (character) invisibly. If background = FALSE, returns a Shiny application object.

See Also

For more information about the features of dataviewer, please refer to the [documentation](#).

Examples

```
if (interactive()) {  
  dataviewer(mtcars) # Opens in RStudio Viewer pane or default web browser  
  dataviewer(iris, mtcars) # Opens multiple datasets in separate tabs  
  dataviewer() # Opens the "Import Dataset" tab (foreground mode - console will be busy)  
  
  # Run in foreground to enable the "Import Dataset" tab alongside 'mtcars'  
  dataviewer(mtcars, background = FALSE)  
  
  # Stop background process  
  id <- dataviewer(mtcars, iris)  
  stop_dataviewer(id)  
}
```

list_dataviewers

List Active Background Dataviewer Processes

Description

List Active Background Dataviewer Processes

Usage

```
list_dataviewers()
```

See Also

For more information, please refer to the [documentation](#).

stop_all_dataviewers	<i>Stop All Background Dataviewer Processes</i>
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Description

Stop All Background Dataviewer Processes

Usage

```
stop_all_dataviewers()
```

See Also

For more information, please refer to the [documentation](#).

stop_dataviewer	<i>Stop a Specific or Most Recent Dataviewer Process</i>
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Description

Stop a Specific or Most Recent Dataviewer Process

Usage

```
stop_dataviewer(id = NULL)
```

Arguments

id	Character string specifying the process ID to stop. If NULL, stops the most recent background dataviewer.
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See Also

For more information, please refer to the [documentation](#).

Index

`dataviewer`, [2](#)

`list_dataviewers`, [3](#)

`stop_all_dataviewers`, [4](#)

`stop_dataviewer`, [4](#)