

Package ‘ViewR’

May 6, 2026

Type Package

Title Interactive Data Viewer, Filter, and Editor

Version 1.0.0

Description Provides a feature-rich, popup-based interactive interface for viewing, exploring, filtering, sorting, editing, analysing, and plotting R data frames. Key features include: a searchable, paginated data table with drag-and-drop column reordering and variable-label 'tooltips'; multi-condition filters (AND/OR) with live preview; multi-column sorting; column visibility management with search; an Excel-like cell editor powered by 'rhandsontable'; find-and-replace across one or all columns (literal or regex) with automatic live preview; a Plots tab with auto-detected histograms and bar charts for every column; automatic 'dplyr' code generation reflecting every operation performed in the 'UI'; one-click CSV export; and a Variable Info tab with type, missing values, and summary statistics. The entire interface is launched with a single call to ViewR() and works as a popup dialog, in the 'RStudio' Viewer pane, or in the system browser.

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Encoding UTF-8

Language en-GB

Depends R (>= 4.1.0)

URL <https://github.com/itsmdivakaran/viewR>,
<https://itsmdivakaran.github.io/viewR/>

BugReports <https://github.com/itsmdivakaran/viewR/issues>

RoxygenNote 7.3.3

Imports shiny (>= 1.7.0), DT (>= 0.27), rhandsontable (>= 0.3.8), shinyjs (>= 2.1.0), shinythemes (>= 1.2.0), htmltools (>= 0.5.4), jsonlite (>= 1.8.0), utils

Suggests haven, tibble, dplyr, knitr, rmarkdown, testthat (>= 3.0.0), covr

VignetteBuilder knitr

Config/testthat/edition 3

NeedsCompilation no

Author Mahesh Divakaran [aut, cre]

Maintainer Mahesh Divakaran <imaheshdivakaran@gmail.com>

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Description

Opens a feature-rich, popup-based Shiny interface for viewing, exploring, filtering, sorting, editing, and analysing R data frames. All operations are reflected in real-time as copy-pasteable **dplyr** code.

Usage

```
ViewR(
  data,
  edit = FALSE,
  popup = TRUE,
  labels = NULL,
  title = NULL,
  viewer = c("dialog", "browser", "pane"),
  generate_code = TRUE,
  theme = c("flatly", "cerulean", "cosmo", "darkly", "lumen", "paper", "readable",
    "sandstone", "simplex", "spacelab", "united", "yeti"),
  max_display = 50000L,
  return_data = TRUE,
  ...
)
```

Arguments

<code>data</code>	A data.frame or tibble to view / edit.
<code>edit</code>	Logical. Enable the Excel-like editing tab. Default FALSE.
<code>popup</code>	Logical. If TRUE (default), open in a popup dialog; if FALSE, open in the system browser.

labels	Optional named character vector of variable labels. Names must match column names of data. If NULL, labels are read from column attributes (e.g. \ as set by haven).
title	Window title. Defaults to the name of data.
viewer	Where to display the interface: "dialog" Popup dialog (default when popup = TRUE). "browser" System web browser. "pane" RStudio Viewer pane.
generate_code	Logical. Show the R Code tab. Default TRUE.
theme	Bootstrap theme for the 'UI'. One of "flatly" (default), "cerulean", "cosmo", "darkly", "lumen", "paper", "readable", "sandstone", "simplex", "spacelab", "united", "yeti".
max_display	Integer. Maximum rows rendered in the Data View table (for performance). Default 50000.
return_data	Logical. When the user clicks <i>Done</i> , return the (possibly edited) data frame. Default TRUE.
...	Reserved for future arguments; currently ignored.

Value

If `return_data = TRUE` and the user clicked *Done*, returns the modified data frame invisibly. Otherwise returns the original data frame invisibly.

Features

- **Data View** - searchable, paginated DT table with optional variable-label tooltips and column-level search filters.
- **Sidebar Filters** - add unlimited filter conditions with operators `==`, `!=`, `>`, `>=`, `<`, `<=`, *contains*, *starts with*, *ends with*, *is NA*, *is not NA*; combine with AND / OR logic.
- **Multi-column Sort** - add multiple sort levels; choose ascending or descending per column.
- **Column Visibility** - show/hide any columns via checkboxes.
- **Excel-like Editor** (`edit = TRUE`) - powered by **rhandsontable**; supports in-cell editing, adding rows, and unlimited undo/redo.
- **Find & Replace** - find literal text or regex across one or all columns with case-sensitivity and exact-match options; preview changes before applying.
- **Variable Info** - data type, N, missing min, max, and sample values for every column.
- **R Code Generation** - the *R Code* tab always shows the complete, runnable **dplyr** pipeline for the current state. One click copies it to the clipboard.

Examples

```
if (interactive()) {
  ViewR(mtcars)
```

```
new_iris <- ViewR(iris, edit = TRUE)

ViewR(mtcars,
      labels = c(mpg = "Miles per Gallon",
                 cyl = "Number of Cylinders",
                 hp  = "Gross Horsepower"),
      theme = "darkly")

ViewR(iris, viewer = "browser", generate_code = TRUE)
}
```

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