

Package ‘GWalkR’

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Title Interactive Exploratory Data Analysis Tool

Version 0.1.4

Maintainer Yue Yu <yue.yu@connect.ust.hk>

Description Simplify your R data analysis and data visualization workflow by turning your data frame into an interactive 'Tableau'-like interface, leveraging the 'graphic-walker' JavaScript library and the 'htmlwidgets' package.

License Apache License (>= 2)

Encoding UTF-8

RoxygenNote 7.2.3

URL <https://github.com/Kanaries/GWalkR/>

BugReports <https://github.com/Kanaries/GWalkR/issues>

Imports htmlwidgets, jsonlite, openssl, shiny

NeedsCompilation no

Author Yue Yu [aut, cre] (<<https://orcid.org/0000-0002-9302-0793>>),
Kanaries Data Inc. [cph, fnd]

Repository CRAN

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`gwalkr`*Create GWalkR Interface in "Viewer"*

Description

Use this function to create a GWalkR interface from a given data frame in your "Viewer" window, and start your data exploration! Please make sure the width and the height of your "Viewer" window are large enough.

Usage

```
gwalkr(  
  data,  
  lang = "en",  
  dark = "light",  
  columnSpecs = list(),  
  visConfig = NULL,  
  visConfigFile = NULL  
)
```

Arguments

<code>data</code>	A data frame to be visualized in the GWalkR. The data frame should not be empty.
<code>lang</code>	A character string specifying the language for the widget. Possible values are "en" (default), "ja", "zh".
<code>dark</code>	A character string specifying the dark mode preference. Possible values are "light" (default), "dark", "media".
<code>columnSpecs</code>	An optional list of lists to manually specify the types of some columns in the data frame. Each top level element in the list corresponds to a column, and the list assigned to each column should have two elements: <code>analyticalType</code> and <code>semanticType</code> . <code>analyticalType</code> can only be one of "measure" or "dimension". <code>semanticType</code> can only be one of "quantitative", "temporal", "nominal" or "ordinal". For example: <code>list("gender" = list(analyticalType = "dimension", semanticType = "nominal"), "age" = list(analyticalType = "measure", semanticType = "quantitative"))</code>
<code>visConfig</code>	An optional config string to reproduce your chart. You can copy the string by clicking "export config" button on the GWalkR interface.
<code>visConfigFile</code>	An optional config file path to reproduce your chart. You can download the file by clicking "export config" button then "download" button on the GWalkR interface.

Value

An `htmlwidget` object that can be rendered in R environments

Examples

```
data(mtcars)
gwalkr(mtcars)
```

gwalkr-shiny

Shiny bindings for gwalkr

Description

Output and render functions for using gwalkr within Shiny applications and interactive Rmd documents.

Usage

```
gwalkrOutput(outputId, width = "100%", height = "100%")
renderGwalkr(expr, env = parent.frame(), quoted = FALSE)
```

Arguments

outputId	output variable to read from
width, height	Must be a valid CSS unit (like '100%', '400px', 'auto') or a number, which will be coerced to a string and have 'px' appended.
expr	An expression that generates a gwalkr
env	The environment in which to evaluate expr.
quoted	Is expr a quoted expression (with quote())? This is useful if you want to save an expression in a variable.

Value

- gwalkrOutput: A shinyWidgetOutput object for the root HTML element.
- renderGwalkr: A server-side function to help Shiny display the GWalkR visualization.

Examples

```
# !formatR
library(GWalkR)
library(shiny)
data(mtcars)
app <- shinyApp(
  ui = fluidPage(
    titlePanel("Explore the data here: "),
    gwalkrOutput("mygraph")
  ),
  server = function(input, output, session) {
    output$mygraph = renderGwalkr(
```

```
      gwalkr(mtcars)
    )
  }
)
if (interactive()) app
```

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