

Package: imageviewer (via r-universe)

September 10, 2024

Title Simple 'htmlwidgets' Image Viewer with WebGL Brightness/Contrast

Version 0.1.0

Author Iakov Pustilnik [aut, cre], Denis Rastegaev [aut]

Maintainer Iakov Pustilnik <xyapus@gmail.com>

URL <https://github.com/yapus/imageviewer>

BugReports <https://github.com/yapus/imageviewer/issues>

Description Display a 2D-matrix data as a interactive zoomable gray-scale image viewer, providing tools for manual data inspection. The viewer window shows cursor guiding lines and a corresponding data slices for both axes at the current cursor position. A tool-bar allows adjusting image display brightness/contrast through WebGL filters and performing basic high-pass/low-pass filtering.

Depends R (>= 3.4), htmlwidgets

License MIT + file LICENSE

Encoding UTF-8

LazyData true

RoxygenNote 6.1.1

Repository <https://yapus.r-universe.dev>

RemoteUrl <https://github.com/yapus/imageviewer>

RemoteRef HEAD

RemoteSha bd73c35a6a7a6752f1dc155ef8bcc26d8335ccf4

Contents

imageviewer	2
imageviewer-shiny	2
Index	4

imageviewer	<i>imageviewer</i>
-------------	--------------------

Description

Simple htmlwidgets matrix viewer with WebGL brightness/contrast

Usage

```
imageviewer(data, width = NULL, height = NULL, elementId = NULL,
  options = list())
```

Arguments

data	A matrix
width, height	matrix dimensions
elementId	HTML element Id
options	list of other options (passed through to JS code)

Value

Plot matrix in html widget

Examples

```
# Create matrix
m <- matrix(rnorm(512 * 512, mean = 100, sd = 10), 512, 512)

# Plot
imageviewer(m)
```

imageviewer-shiny	<i>Shiny bindings for imageviewer</i>
-------------------	---------------------------------------

Description

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

Usage

```
imageviewerOutput(outputId, width = "100%", height = "400px")

renderImageviewer(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 imageviewer
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.

Index

`imageviewer`, [2](#)
`imageviewer-shiny`, [2](#)
`imageviewerOutput (imageviewer-shiny)`, [2](#)
`renderImageviewer (imageviewer-shiny)`, [2](#)