Package 'svgPanZoom'

October 14, 2022

Title R 'Htmlwidget' to Add Pan and Zoom to Almost any R Graphic	
Version 0.3.4	
Date 2020-02-15	
Maintainer Kent Russell <pre><kent.russell@timelyportfolio.com></kent.russell@timelyportfolio.com></pre>	
Description This 'htmlwidget' provides pan and zoom interactivity to R graphics, including 'base', 'lattice', and 'ggplot2'. The interactivity is provided through the 'svg-pan-zoom.js' library. Various options to the widget can tailor the pan and zoom experience to nearly any user desire.	
<pre>URL https://github.com/timelyportfolio/svgPanZoom</pre>	
<pre>BugReports https://github.com/timelyportfolio/svgPanZoom/issues</pre>	
License MIT + file LICENSE	
Depends R (>= $3.1.2$)	
Imports htmlwidgets (>= 0.3.2)	
Suggests htmltools, syglite	
Enhances gridSVG, knitr, XML, xml2	
RoxygenNote 7.0.2	
NeedsCompilation no	
Author Anders Riutta et. al. [aut, cph] (svg-pan-zoom.js BSD-licensed library in htmlwidgets/lib, https://github.com/ariutta/svg-pan-zoom), Jorik Tangelder [aut, cph] (hammer.js MIT-licensed touch library in htmlwidgets/lib, https://github.com/hammerjs/hammer), Kent Russell [aut, cre] (R interface to svg-pan-zoom.js)	
Repository CRAN	
Date/Publication 2020-02-15 21:20:02 UTC	
R topics documented:	
e a constant of the constant o	2
Index	5

2 svgPanZoom

svgPanZoom

Pan and Zoom R graphics

Description

Add panning and zooming to almost any R graphics from base graphics, lattice, and ggplot2 by using the JavaScript library svg-pan-zoom.

Usage

```
svgPanZoom(
  svg,
  viewBox = TRUE,
  ...,
  width = NULL,
  height = NULL,
  elementId = NULL)
```

Arguments

one of svg • svg - SVG as XML or xml2, such as return from xmlSVG • lattice plot - trellis object, such as 1 in 1=xyplot(...) • ggplot2 plot - ggplot object, such as g in g=ggplot(...) + geom_line() • filename or connection of a SVG file logical to add back the viewBox to the SVG. The default is TRUE to fit the viewBox svgPanZoom in its container. other configuration options for svg-pan-zoom.js. See svg-pan-zoom How To Use for a full description of the options available. As an example to turn on $\verb|controlIconsEnabled| and turn, do \verb|svgPanZoom(..., controlIconsEnabled| \\$ = TRUE, panEnabled = FALSE). valid CSS unit (like "100%", "400px", "auto") or a number, which will be cowidth, height erced to a string and have "px" appended elementId string id for the svgPanZoom container. Since svgPanZoom does not display its container, this is very unlikely to be anything other than the default NULL.

Examples

svgPanZoom 3

```
<circle cx="60" cy="60" r="50" style="fill:none;stroke:blue;"/>
   </svg>
## Not run:
library(svgPanZoom)
# first let's demonstrate a base plot
# use svglite for now
library(svglite)
library(lattice)
svgPanZoom( svglite:::inlineSVG( plot(1:10) ) )
svgPanZoom(svglite:::inlineSVG(show( xyplot( y~x, data.frame(x=1:10,y=1:10) ) )))
# the package gridSVG is highly recommended for lattice and ggplot2
# second let's demonstrate a lattice plot
library(lattice)
svgPanZoom(xyplot(y^x, data.frame(x=1:10,y=1:10)))
# third with a ggplot2 plot
library(ggplot2)
svgPanZoom(ggplot(data.frame(x=1:10,y=1:10), aes(x=x,y=y)) + geom_line())
#Of course as a good htmlwidget should, it works with Shiny also.
library(shiny)
library(svglite)
library(svgPanZoom)
library(ggplot2)
ui <- shinyUI(bootstrapPage(</pre>
  svgPanZoomOutput(outputId = "main_plot")
))
server = shinyServer(function(input, output) {
  output$main_plot <- renderSvgPanZoom({</pre>
   p <- ggplot() +</pre>
     geom_point(
       data=data.frame(faithful),aes(x=eruptions,y=waiting)
     ) +
     stat_density2d(
       data=data.frame(faithful)
       ,aes(x=eruptions,y=waiting ,alpha =..level..)
       ,geom="polygon") +
     scale_alpha_continuous(range=c(0.05,0.2))
     svgPanZoom(p, controlIconsEnabled = T)
  })
})
runApp(list(ui=ui,server=server))
```

4 svgPanZoom-shiny

```
## End(Not run)
```

svgPanZoom-shiny Shiny bindings for svgPanZoom

Description

Shiny bindings for svgPanZoom

Usage

```
svgPanZoomOutput(outputId, width = "100%", height = "400px")
renderSvgPanZoom(expr, env = parent.frame(), quoted = FALSE)
```

Arguments

outputId output variable to read from

width, height must be a valid CSS unit (like "100 which will be coerced to a string and have

"px" appended

expr expression that generates a svgPanZoom htmlwidget

env environment in which to evaluate expr

quoted logical is expr a quoted expression (with quote())? This is useful if you

want to save an expression in a variable.

Index

```
\label{eq:comparison} $\operatorname{renderSvgPanZoom}(\operatorname{svgPanZoom-shiny}), 4$$ svgPanZoom, 2$$ svgPanZoom-shiny, 4$$ svgPanZoomOutput (svgPanZoom-shiny), 4$$ xmlSVG, 2$$
```