

Package ‘svgPanZoom’

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Title R 'htmlwidget' to Add Pan and Zoom to Almost any R Graphic

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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.

URL <https://github.com/timelyportfolio/svgPanZoom>

BugReports <https://github.com/timelyportfolio/svgPanZoom/issues>

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Depends R (>= 3.1.2)

Imports htmlwidgets (>= 0.3.2)

Suggests htmltools, svglite

Enhances gridSVG, knitr, XML, xml2

RoxygenNote 7.0.2

NeedsCompilation no

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Jorik Tangelder [aut, cph] (hammer.js MIT-licensed touch library in htmlwidgets/lib, <https://github.com/hammerjs/hammer>),
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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

svg	one of <ul style="list-style-type: none"> • svg - SVG as XML or xml2, such as return from xmlSVG • lattice plot - trellis object, such as l in <code>l=xypplot(...)</code> • ggplot2 plot - ggplot object, such as g in <code>g=ggplot(...)+geom_line()</code> • filename or connection of a SVG file
viewBox	logical to add back the viewBox to the SVG. The default is TRUE to fit the svgPanZoom in its container.
...	other configuration options for <code>svg-pan-zoom.js</code> . See svg-pan-zoom How To Use for a full description of the options available. As an example to turn on <code>controlIconsEnabled</code> and turn , do <code>svgPanZoom(..., controlIconsEnabled = TRUE, panEnabled = FALSE)</code> .
width, height	valid CSS unit (like "100%", "400px", "auto") or a number, which will be coerced 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 tries to be very flexible with its first argument

# in this first example use SVG as a character string
# this is probably the least likely use case
library(svgPanZoom)
svgPanZoom('
  <svg style="height:300px;width:300px;">
```

```

    <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(
  svgPanZoomOutput(outputId = "main_plot")
))

server = shinyServer(function(input, output) {
  output$main_plot <- renderSvgPanZoom({
    p <- ggplot() +
      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))

```

```
## 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.

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