

Package ‘sameplot’

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Title Consistent Plot Rendering and Saving Across Interactive Sessions and Reports

Version 0.1.0

Description Renders plots to a temporary image using the ragg graphics device and returns `knitr::include_graphics()` output. Optionally saves the image to a specified path. This helps ensure consistent appearance across interactive sessions, saved files, and knitted documents. For more details see Pedersen and Shemanarev (2025) <[doi:10.32614/CRAN.package.ragg](https://doi.org/10.32614/CRAN.package.ragg)>.

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Encoding UTF-8

RoxygenNote 7.3.3

Imports knitr, ragg

Suggests ggplot2, testthat (>= 3.0.0)

Config/testthat/edition 3

URL <https://github.com/TomNaber/sameplot>

BugReports <https://github.com/TomNaber/sameplot/issues>

NeedsCompilation no

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`sameplot`*Render a plot consistently across RStudio, saved files, and knitr output*

Description

`sameplot()` renders plot to a temporary PNG using a ragg device and returns a knitr image include pointing to that PNG. This makes the displayed output consistent across interactive use and knitted documents. Optionally, when `save = TRUE`, the plot is also saved to file using a ragg device inferred from the file extension.

Usage

```
sameplot(  
  plot,  
  file = NULL,  
  width = 6.4,  
  height = 4.8,  
  units = "in",  
  background = "white",  
  scaling = 1,  
  bitsize = 8,  
  res = 300,  
  save = FALSE  
)
```

Arguments

<code>plot</code>	A plot object. Typically a <code>ggplot</code> , but any object whose <code>print()</code> method draws to the active graphics device.
<code>file</code>	Output filename (relative or absolute). Must include an extension <code>.png</code> or <code>.tif/.tiff</code> . Required when <code>save = TRUE</code> .
<code>width, height</code>	Plot size.
<code>units</code>	Units for width and height (e.g., "in", "cm", "mm").
<code>background</code>	Background color passed to ragg devices.
<code>scaling</code>	Increase to make plot bigger within the same physical size.
<code>bitsize</code>	Record color as 8 bit or 16 bit. 16 bit may be useful for smoother gradients.
<code>res</code>	Resolution in pixels per inch passed to ragg devices.
<code>save</code>	Logical; if <code>TRUE</code> , also save the plot to file.

Details

When knitting to HTML (e.g., `rmarkdown::html_document()`), `sameplot()` requires the document to be self-contained so that the generated images are embedded in the output. Add this to your YAML:

```
output:  
  html_document:  
    self_contained: true
```

Value

An object returned by `knitr::include_graphics()` (rendered by knitr in HTML/PDF output).

Examples

```
p <- ggplot2::ggplot(mtcars, ggplot2::aes(wt, mpg)) + ggplot2::geom_point()  
sameplot(p) # display via temp PNG  
  
# Save to a temporary folder (safe for R CMD check)  
out_png <- file.path(tempdir(), "p.png")  
out_tif <- file.path(tempdir(), "p.tiff")  
sameplot(p, out_png, save = TRUE)  
sameplot(p, out_tif, save = TRUE)
```

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