Package 'sameplot'

January 31, 2026

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>.

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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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Repository CRAN

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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 in-
clude 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

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

Details

When knitting to HTML (e.g., rmarkdown::html_document()), sameplot() requires the docu-
ment 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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