

# Package: sameplot (via r-universe)

June 3, 2026

**Title** Consistent Plot Rendering and Saving Across Interactive Sessions and Reports

**Version** 0.1.1

**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

**Roxygen** list(markdown = TRUE)

**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>

**Config/pak/sysreqs** libfontconfig1-dev libfreetype6-dev libfribidi-dev libharfbuzz-dev libicu-dev libjpeg-dev libpng-dev libtiff-dev libwebp-dev

**Repository** <https://tomnaber.r-universe.dev>

**Date/Publication** 2026-02-02 13:49:32 UTC

**RemoteUrl** <https://github.com/tomnaber/sameplot>

**RemoteRef** HEAD

**RemoteSha** f0513d7f8aa810ddf9729582e8612b3a2952a92a

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 sameplot

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


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## 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

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 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).

### See Also

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

### Examples

```
p <- ggplot2::ggplot(mtcars, ggplot2::aes(wt, mpg)) +  
  ggplot2::geom_point()  
  
# Display via temporary PNG  
sameplot(p)  
  
# Save a PNG  
sameplot(p,  
  file = file.path(tempdir(), "mtcars.png"),  
  save = TRUE  
)  
  
# Save a TIFF with custom parameters  
sameplot(  
  p,  
  file = file.path(tempdir(), "mtcars.tiff"),  
  width = 4,  
  height = 6,  
  background = "transparent",  
  res = 600,  
  save = TRUE  
)
```

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