# Package: camcorder (via r-universe)

October 21, 2024

Type Package
Title Record Your Plot History
Version 0.1.0.9000
Description Record and generate a 'gif' of your 'R' sessions plots.  When creating a visualization, there is inevitably iteration and refinement that occurs. Automatically save the plots made to a specified directory, previewing them as they would be saved. Then combine all plots generated into a 'gif' to show the plot refinement over time.
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Encoding UTF-8
LazyData true
RoxygenNote 7.2.1
<pre>URL https://thebioengineer.github.io/camcorder/,</pre>
https://github.com/thebioengineer/camcorder
BugReports https://github.com/thebioengineer/camcorder/issues
Imports ggplot2, gifski, tools, magick, rsvg, jsonlite, rlang, grDevices, svglite
Suggests knitr, rmarkdown, markdown, ragg, grid, covr, testthat (>= 3.0.0), patchwork, withr, dplyr, systemfonts, scales, extrafont
VignetteBuilder knitr
Config/testthat/edition 3
Repository https://thebioengineer.r-universe.dev
RemoteUrl https://github.com/thebioengineer/camcorder
RemoteRef HEAD
<b>RemoteSha</b> a0cdfb6042b5bf5502b6eee4421afb45f8aa5632
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gg\_record

Record and generate plot histories

## **Description**

Record plots created over time and generate a GIF of the plots made in the 'R' session. Overrides the print methods for ggplot and patchwork objects from the 'ggplot2' and 'patchwork' packages respectively.

resize the film for recording, reprints and saves last plot

Stop recording images with camcorder.

## Usage

```
gg_record(
  dir = NULL,
  device = c("png", "pdf", "jpeg", "bmp", "tiff", "emf", "svg", "eps", "ps"),
  scale = 1,
 width = NA,
  height = NA,
  units = c("in", "cm", "mm", "px"),
  dpi = 300,
  limitsize = TRUE,
  device_ext = NULL,
  bg = NULL
)
gg_playback(
  name = NULL,
  first_image_duration = 16,
  last_image_duration = 20,
  frame_duration = 0.25,
  loop = TRUE,
  image_resize = 600,
  background = "black",
 width = NULL,
  height = NULL,
  progress = interactive(),
  playback = TRUE,
  stoprecording = FALSE,
  last_as_first = TRUE,
)
gg_resize_film(height = NA, width = NA, units = NA, dpi = NA)
gg_stop_recording()
```

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#### **Arguments**

dir directory to save the intermediate plots in. Defaults to a temporary directory

device Device to use. Can either be a device function (e.g. png()), or one of "png",

"pdf", "jpeg", "bmp", "tiff", "emf", "svg", "eps", "ps".

scale Multiplicative scaling factor.

width, height, units

Plot size in units ("in", "cm", "mm", or "px"). If not supplied, uses the size of

current graphics device.

dpi Plot resolution. Also accepts a string input: "retina" (320), "print" (300), or

"screen" (72). Applies only to raster output types.

limitsize When TRUE (the default), ggsave() will not save images larger than 50x50

inches, to prevent the common error of specifying dimensions in pixels.

device\_ext file extension to use for images created. Does not usually need to be populated

manually.

bg Background colour. If NULL, uses the plot background fill value from the plot

theme.

name name of gif.

first\_image\_duration

n units of frame\_duration to show the first image for.

last\_image\_duration

n units of frame\_duration to show the last image for.

frame\_duration n seconds each plot should be shown.

loop if the gif should be repeated. Set to FALSE to only play once, or a number to

indicate how many times to repeat after the first.

image\_resize size to rescale images to in pixels.

background color to set the background of the gif. A valid color string such as "navyblue"

or "#000080". Use "none" for transparency. Does not impact the background of

images.

progress print some verbose status output

playback Boolean, should the recording start playing after it is turned into a gif? defaults

to TRUE.

stoprecording Boolean, should the plots stop being recorded? defaults to TRUE.

last\_as\_first Should the last plot be displayed at the beginning too?

.. Other arguments passed on to the graphics device function, as specified by

device.

#### Value

Used initialize recording, nothing returned

Returns nothing. Used to generate the gif.

Returns the last plot generated, resized to new dimensions

Returns nothing. used for side effect.

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## **Functions**

```
gg_playback():gg_resize_film():gg_stop_recording():
```

#### **Examples**

```
if(require(ggplot2) & interactive()){
    gg_record(dir = file.path(tempdir(),"recording"))
    ggplot(data.frame(x = 1, y = 1), aes(x=x, y=y)) + geom_point() + ylim(0,4)
    ggplot(data.frame(x = 1, y = 2), aes(x=x, y=y)) + geom_point() + ylim(0,4)

## resize canvas of the last plot
    gg_resize_film(height = 10, width = 5, dpi = 350)

ggplot(data.frame(x = 1, y = 3), aes(x=x, y=y)) + geom_point() + ylim(0,4)

gg_playback(tempfile(fileext = ".gif"))
}
```

record\_polaroid

Record Plots - generic

## **Description**

For plot types that don't have a special print method, use this function to capture what has been printed to the current graphics device and save it using the current camcorder settings

#### Usage

```
record_polaroid()
```

### Value

No return value. Used for the side effect of capturing the current graphics device and saving it to the set directory from gg\_record.

## **Examples**

```
library(grid)
gg_record(device = "png", width = 10, height = 8, units = "in", dpi = 320)
## make a plot using grobs
grid.draw(rectGrob(width = 2, height = 2, gp = gpar(fill = "green")))
grid.draw(textGrob("Hello world"))
```

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record\_polaroid()

gg\_stop\_recording()

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