

Package ‘gifski’

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Type Package

Title Highest Quality GIF Encoder

Version 0.8.7

Description Multi-threaded GIF encoder written in Rust: <<https://gif.ski/>>. Converts images to GIF animations using pngquant's efficient cross-frame palettes and temporal dithering with thousands of colors per frame.

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URL <https://gif.ski/> (upstream), <https://github.com/r-rust/gifski> (devel)

BugReports <https://github.com/r-rust/gifski/issues>

SystemRequirements Cargo (rustc package manager)

Encoding UTF-8

LazyData true

RoxygenNote 6.0.1

Suggests ggplot2, gapminder

Language en-US

NeedsCompilation yes

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Repository CRAN

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`gifski`*Gifski*

Description

Gifski converts image frames to high quality GIF animations. Either provide input png files, or automatically render animated graphics from the R graphics device.

Usage

```
gifski(png_files, gif_file = "animation.gif", width = 800, height = 600,  
       delay = 1, loop = TRUE, progress = TRUE)
```

```
save_gif(expr, gif_file = "animation.gif", width = 800, height = 600,  
         delay = 1, loop = TRUE, progress = TRUE, ...)
```

Arguments

<code>png_files</code>	vector of png files
<code>gif_file</code>	output gif file
<code>width</code>	gif width in pixels
<code>height</code>	gif height in pixel
<code>delay</code>	time to show each image in seconds
<code>loop</code>	should the gif play forever (FALSE to only play once)
<code>progress</code>	show progress bar
<code>expr</code>	an R expression that creates graphics
<code>...</code>	other graphical parameters passed to png

Examples

```
# Manually convert png files to gif  
png_path <- file.path(tempdir(), "frame%03d.png")  
png(png_path)  
par(ask = FALSE)  
for(i in 1:10)  
  plot(rnorm(i * 10), main = i)  
dev.off()  
png_files <- sprintf(png_path, 1:10)  
gif_file <- tempfile(fileext = ".gif")  
gifski(png_files, gif_file)  
unlink(png_files)  
utils::browseURL(gif_file)
```

```
# Example borrowed from gganimate  
library(gapminder)
```

```
library(ggplot2)
makeplot <- function(){
  datalist <- split(gapminder, gapminder$year)
  lapply(datalist, function(data){
    p <- ggplot(data, aes(gdpPercap, lifeExp, size = pop, color = continent)) +
      scale_size("population", limits = range(gapminder$pop)) + geom_point() + ylim(20, 90) +
      scale_x_log10(limits = range(gapminder$gdpPercap)) + ggtitle(data$year) + theme_classic()
    print(p)
  })
}

# High Definition images:
gif_file <- file.path(tempdir(), 'gapminder.gif')
save_gif(makeplot(), gif_file, 1280, 720, res = 144)
utils::browseURL(gif_file)
```

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