# Package 'rasterpdf'

October 14, 2022

Title Plot Raster Graphics in PDF Files

Version 0.1.1

<b>Description</b> The ability to plot raster graphics in PDF files can be useful when one needs multi-page documents, but the plots contain so many individual elements that (the usual) use of vector graphics results in inconveniently large file sizes. Internally, the package plots each individual page as a PNG, and then combines them in one PDF file.				
License MIT + file LICENSE				
Imports methods, png				
Suggests covr, lintr, pkgdown, ragg, testthat				
<pre>URL https://ilarischeinin.github.io/rasterpdf,</pre>				
https://github.com/ilarischeinin/rasterpdf				
BugReports https://github.com/ilarischeinin/rasterpdf/issues				
Encoding UTF-8				
LazyData true				
RoxygenNote 7.0.0				
NeedsCompilation no				
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Repository CRAN				
<b>Date/Publication</b> 2019-11-22 18:30:03 UTC				
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dev.off

Shut down a graphics device

# **Description**

Please see the manual page for grDevices::dev.off(). Package rasterpdf overrides the function in order to provide functionality of raster\_pdf(), but internally calls grDevices::dev.off().

#### Usage

```
dev.off(which = grDevices::dev.cur())
```

# **Arguments**

which

An integer that specifies the device number. Default is the current device.

#### See Also

```
grDevices::dev.off()
```

# Examples

```
raster_pdf(tempfile(fileext = ".pdf"))
plot(iris)
dev.off()
```

rasterpdf

rasterpdf: Plot Raster Graphics in PDFs.

# Description

rasterpdf is an R package to plot raster graphics in PDF files. This can be useful when one needs multipage documents, but the plots contain so many individual elements that use of vector graphics (with grDevices::pdf()) results in inconveniently large file sizes. Internally, rasterpdf plots each individual page as a PNG, and then combines them in one PDF file.

#### **Functions**

```
raster_pdf() Opens a raster graphics PDF device.
dev.off() Closes a graphics device.
```

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raster_pdf	Raster PDF graphics device (with PNG pages)	

# Description

Open a graphics device for raster PDF files. Internally, a PNG device is used for the individual pages, which are then combined into one PDF file.

# Usage

```
raster_pdf(
   filename = "Rplots.pdf",
   width = NULL,
   height = NULL,
   units = NULL,
   res = NULL,
   png_function = NULL,
   pdf_function = NULL,
   ...
)
agg_pdf(...)
```

#### **Arguments**

filename	A character string of the output file name.
width	Page width. If NULL, use value of getOption("rasterpdf.width") if set, and default to 7 otherwise.
height	Page height. If NULL, use value of getOption("rasterpdf.height") if set, and default to 7 otherwise.
units	The units in which height and weight are given. Can be "in" (inches), "cm", "mm", or "px" (pixels). If NULL, use value of getOption("rasterpdf.units") if set, and default to "in" 'otherwise.
res	Resolution in ppi. If NULL, use value of getOption("rasterpdf.res") if set, and default to 72L otherwise.
png_function	A PNG device function. If NULL, use grDevices::png().
pdf_function	A PDF device function. If NULL, use grDevices::cairo_pdf() if it is available, and grDevices::png() otherwise.
	Further arguments passed through to the PNG device function specified in png_function.

# **Details**

The ability to plot raster graphics in PDF files can be useful when one needs multipage documents, but the plots contain so many individual elements that use of vector graphics (with grDevices::pdf()) results in inconveniently large file sizes

raster\_pdf

Internally, the function plots each individual page in a PNG file, which are then combined into one PDF file when dev.off() is called. By default, the PNGs are generated with grDevices::png(), but another device function can also be specified. The PDF is by default generated with grDevices::cairo\_pdf() if it is available, and grDevices::pdf() otherwise. Again, it is possible to specify another PDF device function.

```
agg_pdf(...) is shorthand for raster_pdf(..., png_function = ragg::agg_png).
```

#### See Also

```
grDevices::pdf(), grDevices::cairo_pdf(), grDevices::png(), ragg::agg_png()
```

# **Examples**

```
raster_pdf(tempfile(fileext = ".pdf"))
plot(iris)
dev.off()
```

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