

Package ‘crop’

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Title Graphics Cropping Tool

Description A device closing function which is able to crop graphics (e.g., PDF, PNG files) on Unix-like operating systems with the required underlying command-line tools installed.

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Depends R (>= 3.0.0)

Imports

Suggests

Enhances

License GPL-2 | GPL-3

NeedsCompilation no

Repository CRAN

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`dev_off_crop`*Cropping Device*

Description

`dev.off.crop()` calls `dev.off()` to close the plotting device and then crops the produced graphic. This works on Unix-like systems if the right underlying Unix tools are installed and found (see below).

Usage

```
dev.off.crop(file = NULL, warn = TRUE, ...)
```

Arguments

<code>file</code>	An output file name including extension.
<code>warn</code>	A logical indicating whether warnings shall be given in case the wrong operating system is used or the underlying Unix tools are not available.
<code>...</code>	Additional arguments passed to <code>dev.off()</code> .

Details

Supported file extensions are `.ps` (epstool), `.eps` (epstool), `.pdf` (pdfcrop), `.png` (mogrify) if the underlying tools (given in parentheses) are installed and found. If they are not installed or found or if the wrong operating system is used, simply `dev.off()` is called (and thus no cropping is done).

Value

`invisible()`.

Author(s)

Marius Hofert

See Also

`dev.off()` for closing a device.

Examples

```
## Example data
x <- 1:10
y <- rev(x)

## PS
postscript(file = (file <- "crop.ps"))
plot(x, y, xlab = "x", ylab = "y")
```

```
dev.off.crop(file = file)
file.remove("crop.ps") # clean-up

## EPS
setEPS() # or use onefile = FALSE, horizontal = FALSE, paper = "special" in postscript()
postscript(file = (file <- "crop.eps"))
plot(x, y, xlab = "x", ylab = "y")
dev.off.crop(file = file)
file.remove("crop.eps") # clean-up

## PDF
pdf(file = (file <- "crop.pdf"))
plot(x, y, xlab = "x", ylab = "y")
dev.off.crop(file = file)
file.remove("crop.pdf") # clean-up

## PNG with white background
png(filename = (file <- "crop.png"))
plot(x, y, xlab = "x", ylab = "y")
dev.off.crop(file = file)
file.remove("crop.png") # clean-up

## PNG with transparent background
## Not doable by the underlying 'mogrify' (only cropped vertically, not horizontally)
if(FALSE) {
  png(filename = (file <- "crop.png"), bg = "transparent")
  plot(x, y, xlab = "x", ylab = "y")
  dev.off.crop(file = file)
}
```

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