

Package ‘pdftools’

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Type Package

Title Text Extraction, Rendering and Converting of PDF Documents

Version 2.1

Description Utilities based on 'libpoppler' for extracting text, fonts, attachments and metadata from a PDF file. Also supports high quality rendering of PDF documents into PNG, JPEG, TIFF format, or into raw bitmap vectors for further processing in R.

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URL <https://ropensci.org/blog/2016/03/01/pdftools-and-jeroen> (blog)

<https://github.com/ropensci/pdftools#readme> (devel)

<https://poppler.freedesktop.org> (upstream)

BugReports <https://github.com/ropensci/pdftools/issues>

SystemRequirements Poppler C++ API: libpoppler-cpp-dev (deb) or poppler-cpp-devel (rpm). The unit tests also require the 'poppler-data' package (rpm/deb)

Encoding UTF-8

Imports Rcpp (>= 0.12.12)

LinkingTo Rcpp

Suggests jpeg, png, webp, testthat

RoxygenNote 6.1.1

NeedsCompilation yes

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pdf_info

PDF utilities

Description

Utilities based on libpoppler for extracting text, fonts, attachments and metadata from a pdf file.

Usage

```
pdf_info(pdf, opw = "", upw = "")
```

```
pdf_text(pdf, opw = "", upw = "")
```

```
pdf_data(pdf, opw = "", upw = "")
```

```
pdf_fonts(pdf, opw = "", upw = "")
```

```
pdf_attachments(pdf, opw = "", upw = "")
```

```
pdf_toc(pdf, opw = "", upw = "")
```

```
pdf_pagesize(pdf, opw = "", upw = "")
```

Arguments

pdf	file path or raw vector with pdf data
opw	string with owner password to open pdf
upw	string with user password to open pdf

Details

The [pdf_text](#) function renders all textboxes on a text canvas and returns a character vector of equal length to the number of pages in the PDF file. On the other hand, [pdf_data](#) is more low level and returns one data frame per page, containing one row for each textbox in the PDF.

Note that [pdf_data](#) requires a recent version of libpoppler which might not be available on all Linux systems. When using [pdf_data](#) in R packages, condition use on `poppler_config()$has_pdf_data` which shows if this function can be used on the current system.

Poppler is pretty verbose when encountering minor errors in PDF files, in especially [pdf_text](#). These messages are usually safe to ignore, use [suppressMessages](#) to hide them altogether.

See Also

Other pdftools: [pdf_render_page](#)

Examples

```
# Just a random pdf file
pdf_file <- file.path(R.home("doc"), "NEWS.pdf")
info <- pdf_info(pdf_file)
text <- pdf_text(pdf_file)
fonts <- pdf_fonts(pdf_file)
files <- pdf_attachments(pdf_file)
```

pdf_render_page *Render / Convert PDF*

Description

High quality conversion of pdf page(s) to png, jpeg or tiff format, or render into a raw bitmap array for further processing in R.

Usage

```
pdf_render_page(pdf, page = 1, dpi = 72, numeric = FALSE,
  antialias = TRUE, opw = "", upw = "")

pdf_convert(pdf, format = "png", pages = NULL, filenames = NULL,
  dpi = 72, antialias = TRUE, opw = "", upw = "", verbose = TRUE)

poppler_config()
```

Arguments

pdf	file path or raw vector with pdf data
page	which page to render
dpi	resolution (dots per inch) to render
numeric	convert raw output to (0-1) real values
antialias	enable antialiasing. Must be "text" or "draw" or TRUE (both) or FALSE (neither).
opw	owner password
upw	user password
format	string with output format such as "png" or "jpeg". Must be equal to one of poppler_config()\$supported_image_formats.
pages	vector with one-based page numbers to render. NULL means all pages.
filenames	vector of equal length to pages with output filenames. May also be a format string which is expanded using pages and format respectively.
verbose	print some progress info to stdout

See Also

Other pdftools: [pdf_info](#)

Examples

```
# Rendering should be supported on all platforms now
if(poppler_config()$can_render){

# convert few pages to png
file.copy(file.path(Sys.getenv("R_DOC_DIR"), "NEWS.pdf"), "news.pdf")
pdf_convert("news.pdf", pages = 1:3)

# render into raw bitmap
bitmap <- pdf_render_page("news.pdf")

# save to bitmap formats
png::writePNG(bitmap, "page.png")
jpeg::writeJPEG(bitmap, "page.jpeg")
webp::write_webp(bitmap, "page.webp")

# Higher quality
bitmap <- pdf_render_page("news.pdf", page = 1, dpi = 300)
png::writePNG(bitmap, "page.png")

# slightly more efficient
bitmap_raw <- pdf_render_page("news.pdf", numeric = FALSE)
webp::write_webp(bitmap_raw, "page.webp")
}
```

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