

Package ‘staplr’

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Type Package

Title A Toolkit for PDF Files

Version 2.9.0

Depends R (>= 3.4.0)

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Description Provides function to manipulate PDF files:

- fill out PDF forms;
- merge multiple PDF files into one;
- remove selected pages from a file;
- rename multiple files in a directory;
- rotate entire pdf document;
- rotate selected pages of a pdf file;
- Select pages from a file;
- splits single input PDF document into individual pages;
- splits single input PDF document into parts from given points.

License GPL-3

LazyData true

RoxygenNote 6.1.1

Imports tcltk, stringr, assertthat, glue

Suggests lattice, testthat, pdftools

Encoding UTF-8

BugReports <https://github.com/pridiltal/staplr/issues>

NeedsCompilation no

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Repository CRAN

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R topics documented:

get_fields	2
identity_form_fields	3
remove_pages	4
rename_files	5
rotate_pages	6
rotate_pdf	7
select_pages	8
set_fields	10
split_from	11
split_pdf	12
staple_pdf	13
staplr	14
Index	16

get_fields	<i>Get form fields from a pdf form</i>
------------	--

Description

If the toolkit Pdftk is available in the system, it will be called to get form fields from a pdf file.

See the reference for detailed usage of pdftk.

Usage

```
get_fields(input_filepath = NULL)
```

Arguments

`input_filepath` the path of the input PDF file. The default is set to NULL. IF NULL, it prompt the user to select the folder interactively.

Value

A list of fields. With type, name and value components. To use with `set_fields` edit the value element of the fields you want to modify. If the field of type "button", the value will be a factor. In this case the factor levels describe the possible values for the field. For example for a checkbox the typical level names would be "Off" and "Yes", corresponding to non checked and checked states respectively.

Author(s)

Ogan Mancarci

References

<https://www.pdf labs.com/tools/pdftk-the-pdf-toolkit/>

See Also

```
link{set_fields}
```

Examples

```
## Not run:
pdfFile = system.file('testForm.pdf',package = 'staplr')
fields = get_fields(pdfFile)

## End(Not run)
```

identity_form_fields *Identify text form fields*

Description

Helps identification of text forum fields by creating a file that is filled with field names. Some pdf editors show field names when you mouse over the fields as well.

Usage

```
identity_form_fields(input_filepath = NULL, output_filepath = NULL,
  overwrite = TRUE)
```

Arguments

`input_filepath` the path of the input PDF file. The default is set to NULL. IF NULL, it prompt the user to select the folder interactively.

`output_filepath` the path of the output PDF file. The default is set to NULL. IF NULL, it prompt the user to select the folder interactively.

`overwrite` If a file exists in `output_filepath`, should it be overwritten.

Examples

```
## Not run:
pdfFile = system.file('testForm.pdf',package = 'staplr')
identity_form_fields(pdfFile, 'testOutput.pdf')

## End(Not run)
```

remove_pages	<i>Remove selected pages from a file</i>
--------------	--

Description

If the toolkit Pdftk is available in the system, it will be called to remove the given pages from the selected PDF files.

See the reference for detailed usage of pdftk.

Usage

```
remove_pages(rmpages, input_filepath = NULL, output_filepath = NULL,  
            overwrite = TRUE)
```

Arguments

rmpages	a vector of page numbers to be removed
input_filepath	the path of the input PDF file. The default is set to NULL. IF NULL, it prompts the user to select the folder interactively.
output_filepath	the path of the output PDF file. The default is set to NULL. IF NULL, it prompts the user to select the folder interactively.
overwrite	If a file exists in output_filepath, should it be overwritten.

Value

this function returns a PDF document with the remaining pages

Author(s)

Priyanga Dilini Talagala

References

<https://www.pdflabs.com/tools/pdftk-the-pdf-toolkit/>

Examples

```
## Not run:  
# This command prompts the user to select the file interactively.  
# Remove page 2 and 3 from the selected file.  
remove_pages(rmpages = c(3,6))  
  
## End(Not run)  
  
## Not run:  
dir <- tempdir()
```

```
require(lattice)
for(i in 1:3) {
  pdf(file.path(dir, paste("plot", i, ".pdf", sep = "")))
  print(xyplot(iris[,1] ~ iris[,i], data = iris))
  dev.off()
}
output_file <- file.path(dir, paste('Full_pdf.pdf', sep = ""))
staple_pdf(input_directory = dir, output_file)
input_path <- file.path(dir, paste("Full_pdf.pdf", sep = ""))
output_path <- file.path(dir, paste("trimmed_pdf.pdf", sep = ""))
remove_pages(rmpages = 1, input_path, output_path)

## End(Not run)
```

rename_files

Rename multiple files

Description

Rename multiple files in a directory and write renamed files back to directory

Usage

```
rename_files(input_directory = NULL, new_names)
```

Arguments

input_directory

the path of the input PDF files. The default is set to NULL. IF NULL, it prompt the user to select the folder interactively.

new_names

a vector of names for the output files.

Value

this function writes renamed files back to directory

Author(s)

Priyanga Dilini Talagala

References

<https://www.pdf labs.com/tools/pdftk-the-pdf-toolkit/>

Examples

```
## Not run:
#if the directory contains 3 PDF files
rename_files(new_names = paste("file",1:3))

## End(Not run)
```

rotate_pages	<i>Rotate selected pages of a pdf file</i>
--------------	--

Description

If the toolkit Pdftk is available in the system, it will be called to rotate the given pages of the selected PDF files

See the reference for detailed usage of pdftk.

Usage

```
rotate_pages(rotatepages, page_rotation = c(0, 90, 180, 270),
  input_filepath = NULL, output_filepath = NULL, overwrite = TRUE)
```

Arguments

rotatepages	a vector of page numbers to be rotated
page_rotation	An integer value from the vector c(0, 90, 180, 270). Each option sets the page orientation as follows: north: 0, east: 90, south: 180, west: 270. Note that the orientation cannot be cumulatively changed (eg. 90 (east) will always turn the page so the beginning of the page is on the right side)
input_filepath	the path of the input PDF file. The default is set to NULL. IF NULL, it prompt the user to select the folder interactively.
output_filepath	the path of the output PDF file. The default is set to NULL. IF NULL, it prompt the user to select the folder interactively.
overwrite	If a file exists in output_filepath, should it be overwritten.

Value

this function returns a PDF document with the remaining pages

Author(s)

Priyanga Dilini Talagala

References

<https://www.pdf labs.com/tools/pdftk-the-pdf-toolkit/>

Examples

```
## Not run:
# This command prompts the user to select the file interactively.
# Rotate page 2 and 6 to 90 degrees clockwise
rotate_pages(rotatepages = c(3,6), page_rotation = 90)

## End(Not run)

## Not run:
dir <- tempdir()
require(lattice)
for(i in 1:3) {
pdf(file.path(dir, paste("plot", i, ".pdf", sep = "")))
print(xyplot(iris[,1] ~ iris[,i], data = iris))
dev.off()
}
output_file <- file.path(dir, paste('Full_pdf.pdf', sep = ""))
staple_pdf(input_directory = dir, output_file)
input_path <- file.path(dir, paste("Full_pdf.pdf", sep = ""))
output_path <- file.path(dir, paste("Rotated_pgs_pdf.pdf", sep = ""))
rotate_pages(rotatepages = c(2,3), page_rotation = 90, input_path, output_path)

## End(Not run)
```

rotate_pdf

Rotate entire pdf document

Description

If the toolkit Pdftk is available in the system, it will be called to rotate the entire PDF document
See the reference for detailed usage of pdftk.

Usage

```
rotate_pdf(page_rotation = c(0, 90, 180, 270), input_filepath = NULL,
output_filepath = NULL, overwrite = TRUE)
```

Arguments

page_rotation	An integer value from the vector c(0, 90, 180, 270). Each option sets the page orientation as follows: north: 0, east: 90, south: 180, west: 270. Note that the orientation cannot be cummulatively changed (eg. 90 (east) will always turn the page so the beginning of the page is on the right side)
input_filepath	the path of the input PDF file. The default is set to NULL. IF NULL, it prompt the user to select the folder interactively.
output_filepath	the path of the output PDF file. The default is set to NULL. IF NULL, it prompt the user to select the folder interactively.
overwrite	If a file exists in output_filepath, should it be overwritten.

Value

this function returns a PDF document with the rotated pages

Author(s)

Priyanga Dilini Talagala

References

<https://www.pdfplabs.com/tools/pdftk-the-pdf-toolkit/>

Examples

```
## Not run:
# This command prompts the user to select the file interactively.
# Rotate the entire PDF document to 90 degrees clockwise
rotate_pdf(page_rotation = 90)

## End(Not run)

## Not run:
dir <- tempdir()
require(lattice)
for(i in 1:3) {
pdf(file.path(dir, paste("plot", i, ".pdf", sep = "")))
print(xyplot(iris[,1] ~ iris[,i], data = iris))
dev.off()
}
output_file <- file.path(dir, paste('Full_pdf.pdf', sep = ""))
staple_pdf(input_directory = dir, output_file)
input_path <- file.path(dir, paste("Full_pdf.pdf", sep = ""))
output_path <- file.path(dir, paste("rotated_pdf.pdf", sep = ""))
rotate_pdf( page_rotation = 90, input_path, output_path)

## End(Not run)
```

select_pages

Select pages from a file

Description

If the toolkit Pdftk is available in the system, it will be called to combine the selected pages in a new pdf file.

See the reference for detailed usage of pdftk.

Usage

```
select_pages(selpages, input_filepath = NULL, output_filepath = NULL,
  overwrite = TRUE)
```


Arguments

selpages	a vector of page numbers to be selected
input_filepath	the path of the input PDF file. The default is set to NULL. IF NULL, it prompts the user to select the folder interactively.
output_filepath	the path of the output PDF file. The default is set to NULL. IF NULL, it prompts the user to select the folder interactively.
overwrite	If a file exists in output_filepath, should it be overwritten.

Value

this function returns a PDF document with the remaining pages

Author(s)

Granville Matheson, Priyanga Dilini Talagala

References

<https://www.pdflabs.com/tools/pdftk-the-pdf-toolkit/>

Examples

```
## Not run:
# This command prompts the user to select the file interactively.
# Select page 3 and 6 from the selected file.
select_pages(selpages = c(3,6))

## End(Not run)

## Not run:
dir <- tempdir()
require(lattice)
for(i in 1:3) {
  pdf(file.path(dir, paste("plot", i, ".pdf", sep = "")))
  print(xyplot(iris[,1] ~ iris[,i], data = iris))
  dev.off()
}
output_file <- file.path(dir, paste('Full_pdf.pdf', sep = ""))
staple_pdf(input_directory = dir, output_file)
input_path <- file.path(dir, paste("Full_pdf.pdf", sep = ""))
output_path <- file.path(dir, paste("trimmed_pdf.pdf", sep = ""))
select_pages(selpages = 1, input_path, output_path)

## End(Not run)
```

set_fields	<i>Set fields of a pdf form</i>
------------	---------------------------------

Description

If the toolkit Pdfftk is available in the system, it will be called to fill a pdf form with given a list of fields. List of fields can be acquired by [get_fields](#) function.

See the reference for detailed usage of pdftk.

Usage

```
set_fields(input_filepath = NULL, output_filepath = NULL, fields,  
           overwrite = TRUE)
```

Arguments

input_filepath	the path of the input PDF file. The default is set to NULL. IF NULL, it prompt the user to select the folder interactively.
output_filepath	the path of the output PDF file. The default is set to NULL. IF NULL, it prompt the user to select the folder interactively.
fields	Fields returned from get_fields function. To make changes in a PDF, edit the values component of an element within this list
overwrite	If a file exists in output_filepath, should it be overwritten.

Author(s)

Ogan Mancarci

References

<https://www.pdfplabs.com/tools/pdftk-the-pdf-toolkit/>

See Also

[get_fields](#)

Examples

```
## Not run:  
pdfFile = system.file('testForm.pdf', package = 'staplr')  
fields = get_fields(pdfFile)  
  
fields$TextField1$value = 'this is text'  
fields$TextField2$value = 'more text'  
fields$RadioGroup$value = 2  
fields$checkBox$value = 'Yes'
```

```
set_fields(pdfFile, 'filledPdf.pdf', fields)

## End(Not run)
```

split_from*Splits single input PDF document into parts from given points*

Description

If the toolkit Pdftk is available in the system, it will be called to Split a single input PDF document into two parts from a given point

See the reference for detailed usage of pdftk.

Usage

```
split_from(pg_num, input_filepath = NULL, output_directory = NULL,
           prefix = "part", overwrite = TRUE)
```

Arguments

pg_num	A vector of non-negative integers. Split the pdf document into parts from the numbered pages.
input_filepath	the path of the input PDF file. The default is set to NULL. IF NULL, it prompt the user to select the folder interactively.
output_directory	the path of the output directory
prefix	A string for output filename prefix
overwrite	If a file exists in output_filepath, should it be overwritten.

Value

this function splits a single input PDF document into individual pages

Author(s)

Priyanga Dilini Talagala and Ogan Mancarci

References

<https://www.pdf labs.com/tools/pdftk-the-pdf-toolkit/>

Examples

```
## Not run:
# Split the pdf from page 10
split_from(pg_num=10)

## End(Not run)

## Not run:
dir <- tempdir()
require(lattice)
for(i in 1:4) {
pdf(file.path(dir, paste("plot", i, ".pdf", sep = "")))
print(xyplot(iris[,1] ~ iris[,i], data = iris))
dev.off()
}
staple_pdf(input_directory = dir, output_filepath = file.path(dir, 'Full_pdf.pdf'))
input_path <- file.path(dir, "Full_pdf.pdf")
split_from(pg_num=2, input_filepath = input_path ,output_directory = dir )

## End(Not run)
```

split_pdf

Splits single input PDF document into individual pages.

Description

If the toolkit PdfTk is available in the system, it will be called to Split a single input PDF document into individual pages.

See the reference for detailed usage of pdfTk.

Usage

```
split_pdf(input_filepath = NULL, output_directory = NULL,
          prefix = "page_")
```

Arguments

`input_filepath` the path of the input PDF file. The default is set to NULL. IF NULL, it prompt the user to select the folder interactively.

`output_directory`
the path of the output directory

`prefix` A string for output filename prefix

Value

this function splits a single input PDF document into individual pages

Author(s)

Priyanga Dilini Talagala and Ogan Mancarci

References

<https://www.pdfplabs.com/tools/pdftk-the-pdf-toolkit/>

Examples

```
## Not run:
split_pdf()

## End(Not run)

## Not run:
dir <- tempdir()
require(lattice)
for(i in 1:3) {
pdf(file.path(dir, paste("plot", i, ".pdf", sep = "")))
print(xyplot(iris[,1] ~ iris[,i], data = iris))
dev.off()
}
staple_pdf(input_directory = dir, output_filepath = file.path(dir, 'Full_pdf.pdf'))
split_pdf(input_filepath = file.path(dir, paste("Full_pdf.pdf", sep = "")),output_directory = dir )

## End(Not run)
```

staple_pdf

Merge multiple PDF files into one

Description

If the toolkit Pdftk is available in the system, it will be called to merge the PDF files.

See the reference for detailed usage of pdftk.

Usage

```
staple_pdf(input_directory = NULL, input_files = NULL,
           output_filepath = NULL, overwrite = TRUE)
```

Arguments

input_directory

the path of the input PDF files. The default is set to NULL. If NULL, it prompt the user to select the folder interactively.

input_files

a vector of input PDF files. The default is set to NULL. If NULL and input_directory is also NULL, the user is prompted to select a folder interactively.

`output_filepath` the path of the output PDF file. The default is set to NULL. IF NULL, it prompt the user to select the folder interactively.

`overwrite` If a file exists in `output_filepath`, should it be overwritten.

Value

this function returns a combined PDF document

Author(s)

Priyanga Dilini Talagala and Daniel Padfield

References

<https://www.pdflabs.com/tools/pdftk-the-pdf-toolkit/>

Examples

```
## Not run:
staple_pdf()

## End(Not run)

## Not run:
dir <- tempdir()
require(lattice)
for(i in 1:3) {
  pdf(file.path(dir, paste("plot", i, ".pdf", sep = "")))
  print(xyplot(iris[,1] ~ iris[,i], data = iris))
  dev.off()
}
output_file <- file.path(dir, paste('Full_pdf.pdf', sep = ""))
staple_pdf(input_directory = dir, output_filepath = output_file)

## End(Not run)
```

staplr

staplr: A package containing a toolkit for PDF files

Description

This package provides function to manipulate PDF files: merging multiple PDF files into one.

Author(s)

Priyanga Dilini Talagala, Ogan Mancarci and Daniel Padfield

References

<https://www.pdfabs.com/tools/pdftk-the-pdf-toolkit/>

See Also

The core functions in this package: [staple_pdf](#), [remove_pages](#), [split_pdf](#), [rename_files](#)

Index

`get_fields`, [2](#), [10](#)

`idenfity_form_fields`, [3](#)

`remove_pages`, [4](#), [15](#)

`rename_files`, [5](#), [15](#)

`rotate_pages`, [6](#)

`rotate_pdf`, [7](#)

`select_pages`, [8](#)

`set_fields`, [2](#), [10](#)

`split_from`, [11](#)

`split_pdf`, [12](#), [15](#)

`staple_pdf`, [13](#), [15](#)

`staplr`, [14](#)

`staplr-package (staplr)`, [14](#)