

Package ‘docextractr’

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Title Extract Data Tables and Comments from 'Microsoft' 'Word' Documents

Version 0.6.5

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Description 'Microsoft Word' 'docx' files provide an 'XML' structure that is fairly straightforward to navigate, especially when it applies to 'Word' tables and comments. Tools are provided to determine table count/structure, comment count and also to extract/clean tables and comments from 'Microsoft Word' 'docx' documents. There is also nascent support for '.doc' and '.pptx' files.

SystemRequirements LibreOffice (<<https://www.libreoffice.org/>>) required to extract data from .doc files or perform .pptx conversion.

URL <http://gitlab.com/hrbrmstr/docextractr>

BugReports <https://gitlab.com/hrbrmstr/docextractr/issues>

Encoding UTF-8

Depends R (>= 3.6.0)

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LazyData true

Suggests covr, tinytest

Imports tools, xml2, purrr, dplyr, utils, httr, magrittr

RoxygenNote 7.1.0

NeedsCompilation no

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assign_colnames	<i>Make a specific row the column names for the specified data.frame</i>
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Description

Many tables in Word documents are in twisted formats where there may be labels or other oddities mixed in that make it difficult to work with the underlying data. This function makes it easy to identify a particular row in a scraped data.frame as the one containing column names and have it become the column names, removing it and (optionally) all of the rows before it (since that's usually what needs to be done).

Usage

```
assign_colnames(dat, row, remove = TRUE, remove_previous = remove)
```

Arguments

dat	can be any data.frame but is intended for use with ones returned by this package
row	numeric value indicating the row number that is to become the column names
remove	remove row specified by row after making it the column names? (Default: TRUE)
remove_previous	remove any rows preceding row? (Default: TRUE but will be assigned whatever is given for remove).

Value

data.frame

See Also

[docx_extract_all](#), [docx_extract_tbl](#)

Examples

```
# a "real" Word doc
real_world <- read_docx(system.file("examples/realworld.docx", package="docxtractr"))
docx_tbl_count(real_world)

# get all the tables
tbls <- docx_extract_all_tbls(real_world)

# make table 1 better
assign_colnames(tbls[[1]], 2)

# make table 5 better
assign_colnames(tbls[[5]], 2)
```

convert_to_pdf	<i>Convert a Document (usually PowerPoint) to a PDF</i>
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Description

Convert a Document (usually PowerPoint) to a PDF

Usage

```
convert_to_pdf(path, pdf_file = sub("[.]pptx", ".pdf", path))
```

Arguments

path	path to the document, can be PowerPoint or DOCX
pdf_file	output PDF file name. By default, creates a PDF in the same directory as the path file. This functionality requires the use of LibreOffice and the soffice binary it contains. See set_libreoffice_path for more information. Note,

Examples

```
## Not run:
path = system.file("examples/ex.pptx", package="docxtractr")
pdf <- convert_to_pdf(path, pdf_file = tempfile(fileext = ".pdf"))
path = system.file("examples/data.docx", package="docxtractr")
pdf_doc <- convert_to_pdf(path, pdf_file = tempfile(fileext = ".pdf"))

## End(Not run)
```

docxtractr	<i>Extract Data Tables and Comments from 'Microsoft' 'Word' Documents</i>
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Description

Microsoft Word 'docx' files provide an XML structure that is fairly straightforward to navigate, especially when it applies to Word tables. The 'docxtractr' package provides tools to determine table count + table structure and extract tables from Microsoft Word docx documents. It also provides tools to determine comment count and extract comments from Word 'docx' documents.

Author(s)

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docx_cmnt_count	<i>Get number of comments in a Word document</i>
-----------------	--

Description

Get number of comments in a Word document

Usage

```
docx_cmnt_count(docx)
```

Arguments

docx	docx object read with read_docx
------	---------------------------------

Value

numeric

Examples

```
cmnts <- read_docx(system.file("examples/comments.docx", package="docxtractr"))
docx_cmnt_count(cmnts)
```

docx_describe_cmnts *Returns information about the comments in the Word document*

Description

Returns information about the comments in the Word document

Usage

```
docx_describe_cmnts(docx)
```

Arguments

docx docx object read with read_docx

Examples

```
cmnts <- read_docx(system.file("examples/comments.docx", package="docxtractr"))
docx_cmnt_count(cmnts)
docx_describe_cmnts(cmnts)
```

docx_describe_tbls *Returns a description of all the tables in the Word document*

Description

This function will attempt to discern the structure of each of the tables in docx and print this information

Usage

```
docx_describe_tbls(docx)
```

Arguments

docx docx object read with read_docx

Examples

```
complx <- read_docx(system.file("examples/complex.docx", package="docxtractr"))
docx_tbl_count(complx)
docx_describe_tbls(complx)
```

docx_extract_all	<i>Extract all tables from a Word document</i>
------------------	--

Description

Extract all tables from a Word document

Usage

```
docx_extract_all(docx, guess_header = TRUE, preserve = FALSE, trim = TRUE)
```

Arguments

docx	docx object read with read_docx
guess_header	should the function make a guess as to the existence of a header in a table? (Default: TRUE)
preserve	preserve line breaks within a cell? Default: 'FALSE'. NOTE: This overrides 'trim'.
trim	trim leading/trailing whitespace (if any) in cells? (default: TRUE)

Value

list of data.frames or an empty list if no tables exist in docx

See Also

[assign_colnames](#), [docx_extract_tbl](#)

Examples

```
# a "real" Word doc

real_world <- read_docx(system.file("examples/realworld.docx", package="docxtractr"))
docx_tbl_count(real_world)

# get all the tables
tbls <- docx_extract_all_tbls(real_world)
```

 docx_extract_all_cmnts

Extract all comments from a Word document

Description

Extract all comments from a Word document

Usage

```
docx_extract_all_cmnts(docx, include_text = FALSE)
```

Arguments

docx docx object read with read_docx
 include_text if TRUE then the text associated with the comment will also be included

Value

data_frame of comment id, author & text

Examples

```
cmnts <- read_docx(system.file("examples/comments.docx", package="docxtractr"))
docx_cmnt_count(cmnts)
docx_describe_cmnts(cmnts)
docx_extract_all_cmnts(cmnts)
```

 docx_extract_all_tbls *Extract all tables from a Word document*

Description

Extract all tables from a Word document

Usage

```
docx_extract_all_tbls(docx, guess_header = TRUE, preserve = FALSE, trim = TRUE)
```

Arguments

docx docx object read with read_docx
 guess_header should the function make a guess as to the existence of a header in a table?
 (Default: TRUE)
 preserve preserve line breaks within a cell? Default: 'FALSE'. NOTE: This overrides
 'trim'.
 trim trim leading/trailing whitespace (if any) in cells? (default: TRUE)

Value

list of data.frames or an empty list if no tables exist in docx

See Also

[assign_colnames](#), [docx_extract_tbl](#)

Examples

```
# a "real" Word doc

real_world <- read_docx(system.file("examples/realworld.docx", package="docxtractr"))
docx_tbl_count(real_world)

# get all the tables
tbls <- docx_extract_all_tbls(real_world)
```

docx_extract_tbl	<i>Extract a table from a Word document</i>
------------------	---

Description

Given a document read with `read_docx` and a table to extract (optionally indicating whether there was a header or not and if cell whitespace trimming is desired) extract the contents of the table to a `data.frame`.

Usage

```
docx_extract_tbl(  
  docx,  
  tbl_number = 1,  
  header = TRUE,  
  preserve = FALSE,  
  trim = TRUE  
)
```

Arguments

<code>docx</code>	docx object read with <code>read_docx</code>
<code>tbl_number</code>	which table to extract (defaults to 1)
<code>header</code>	assume first row of table is a header row? (default; TRUE)
<code>preserve</code>	preserve line breaks within a cell? Default: FALSE. NOTE: This overrides <code>trim</code> .
<code>trim</code>	trim leading/trailing whitespace (if any) in cells? (default: TRUE)

Value

`data.frame`

See Also

[docx_extract_all](#), [docx_extract_tbl](#), [assign_colnames](#)

Examples

```
doc3 <- read_docx(system.file("examples/data3.docx", package="docxtractr"))
docx_extract_tbl(doc3, 3)

intracell_whitespace <- read_docx(system.file("examples/preserve.docx", package="docxtractr"))
docx_extract_tbl(intracell_whitespace, 2, preserve=FALSE)
docx_extract_tbl(intracell_whitespace, 2, preserve=TRUE)
```

docx_tbl_count	<i>Get number of tables in a Word document</i>
----------------	--

Description

Get number of tables in a Word document

Usage

```
docx_tbl_count(docx)
```

Arguments

docx docx object read with read_docx

Value

numeric

Examples

```
complex <- read_docx(system.file("examples/complex.docx", package="docxtractr"))
docx_tbl_count(complex)
```

mcga

Make Column Names Great Again

Description

Remove punctuation and spaces and turn them to underscores plus convert to lower case.

Usage

```
mcga(tbl)
```

Arguments

tbl a data.frame-like object

Value

whatever class x was but with truly great, really great column names. They're amazing. Trust me. They'll be incredible column names once we're done.

Examples

```
real_world <- read_docx(system.file("examples/realworld.docx", package="docxtractr"))
tbls <- docx_extract_all_tbls(real_world)
mcga(assign_colnames(tbls[[1]], 2))
```

print.docx*Display information about the document*

Description

Display information about the document

Usage

```
## S3 method for class 'docx'
print(x, ...)
```

Arguments

x docx object
... ignored

read_docx	<i>Read in a Word document for table extraction</i>
-----------	---

Description

Local file path or URL pointing to a .docx file. Can also take .doc file as input if LibreOffice is installed (see <https://www.libreoffice.org/> for more info and to download).

Usage

```
read_docx(path, track_changes = NULL)
```

Arguments

path	path to the Word document
track_changes	if not NULL (the default) then must be one of "accept" or "reject" which will, respectively, accept all or reject all changes. NOTE: this functionality relies on the pandoc utility being available on the system PATH. Both system PATH and the RSTUDIO_PANDOC (RStudio ships with a copy of pandoc) environment variables will be checked. If no pandoc binary is found then a warning will be issued and the document will be read without integrating or ignoring any tracked changes. The original Word document <i>will not be modified</i> and this feature <i>only works</i> with docx files.

Examples

```
doc <- read_docx(system.file("examples/data.docx", package="docxtractr"))
class(doc)

doc <- read_docx(
  system.file("examples/trackchanges.docx", package="docxtractr"),
  track_changes = "accept"
)

## Not run:
# from a URL
budget <- read_docx(
  "http://rud.is/dl/1.DOCX")

## End(Not run)
```

set_libreoffice_path *Point to Local soffice.exe File*

Description

Function to set an option that points to the local LibreOffice file soffice.exe.

Usage

```
set_libreoffice_path(path)
```

Arguments

path path to the LibreOffice soffice file

Details

For a list of possible file path locations for soffice.exe, see <https://github.com/hrbrmstr/docextractr/issues/5#issuecomment-233181976>

Value

Returns nothing, function sets the option variable path_to_libreoffice.

Examples

```
## Not run:  
set_libreoffice_path("local/path/to/soffice.exe")  
  
## End(Not run)
```

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