

Package ‘onbrand’

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Type Package

Title Templated Reporting Workflows in Word and PowerPoint

Version 1.0.3

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Description Automated reporting in Word and PowerPoint can require customization for each organizational template. This package works around this by adding standard reporting functions and an abstraction layer to facilitate automated reporting workflows that can be replicated across different organizational templates.

URL <https://onbrand.ubiquity.tools/>

BugReports <https://github.com/john-harrold/onbrand/issues>

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R topics documented:

add_pptx_ph_content	2
build_span	3
fetch_md_def	5
fetch_officer_object	6
fetch_report_format	7

fetch_rpttype	7
fph	8
fst	9
ft_apply_md	10
md_to_officer	10
md_to_oo	12
onbrand	12
preview_template	13
read_template	14
report_add_doc_content	15
report_add_slide	19
save_report	21
set_officer_object	22
span_table	23
template_details	27
view_layout	28

Index **30**

add_pptx_ph_content *Populate Placeholder In Officer Report*

Description

Places content in a PowerPoint placeholder for a given officer document.

Usage

```
add_pptx_ph_content(obnd, content_type, content, ph_label, verbose = TRUE)
```

Arguments

obnd	onbrand report object
content_type	string indicating the content type
content	content (see details below)
ph_label	placeholder location (text)
verbose	Boolean variable when set to TRUE (default) messages will be displayed on the terminal; Messages will be included in the returned onbrand object.

Details

For each content type listed below the following content is expected:

- "text" text string of information
- "list" vector of paired values (indent level and text), eg. c(1, "Main Bullet", 2 "Sub Bullet")
- "imagefile" string containing path to image file

- "ggplot" ggplot object, eg. p = ggplot() +
- "table" list containing the table content and other options with the following elements (defaults in parenthesis):
 - table Data frame containing the tabular data
 - header Boolean variable to control displaying the header (TRUE)
 - first_row Boolean variable to indicate that the first row contains header information (TRUE)
- "flextable" list containing flextable content and other options with the following elements (defaults in parenthesis):
 - table Data frame containing the tabular data
 - header_top, header_middle, header_bottom (NULL) a list with the same names as the data frame names containing the tabular data and values with the header text to show in the table
 - header_format string containing the format, either "text", or "md" (default NULL assumes "text" format)
 - merge_header (TRUE) Set to true to combine column headers with the same information
 - table_body_alignment, table_header_alignment ("center") Controls alignment
 - table_autofit (TRUE) Automatically fit content, or specify the cell width and height with cwidth (0.75) and cheight (0.25)
 - table_theme ("theme_vanilla") Table theme
- "flextable_object" user defined flextable object

Value

officer pptx object with the content added

See Also

[view_layout](#)

build_span

Construct Table Span From Components

Description

Takes a large table, common rows, and header information and constructs a table that is a subset of those components using supplied ranges of rows and columns.

Usage

```
build_span(
  table_body = NULL,
  row_common = NULL,
  table_body_head = NULL,
  row_common_head = NULL,
```

```

header_format = "text",
obnd = NULL,
row_sel = NULL,
col_sel = NULL,
table_alignment = "center",
inner_border = officer::fp_border(color = "black", width = 0.3),
outer_border = officer::fp_border(color = "black", width = 2),
set_header_inner_border_v = TRUE,
set_header_inner_border_h = TRUE,
set_header_outer_border = TRUE,
set_body_inner_border_v = TRUE,
set_body_inner_border_h = FALSE,
set_body_outer_border = TRUE,
notes_detect = NULL
)

```

Arguments

table_body	Data frame with the body of the large table.
row_common	Data frame with the common rows.
table_body_head	Data frame or matrix with headers for the table body.
row_common_head	Data frame or matrix with headers for the common rows.
header_format	Format of the header either "text" (default) or "md" for markdown.
obnd	Optional onbrand object used to format markdown. The default NULL value will use default formatting.
row_sel	Indices of rows to build to the table with.
col_sel	Indices of columns to build to the table with.
table_alignment	Character string specifying the alignment #' of the table (body and headers). Can be "center" (default), "left", "right", or "justify"
inner_border	Border object for inner border lines defined using officer::fp_border()
outer_border	Border object for outer border lines defined using officer::fp_border()
set_header_inner_border_v	Boolean value to enable or disable inner vertical borders for headers
set_header_inner_border_h	Boolean value to enable or disable inner horizontal borders for headers
set_header_outer_border	Boolean value to enable or disable outer border for headers
set_body_inner_border_v	Boolean value to enable or disable inner vertical borders for the body
set_body_inner_border_h	Boolean value to enable or disable inner horizontal borders for the body
set_body_outer_border	Boolean value to enable or disable outer border borders for the body
notes_detect	Vector of strings to detect in output tables (example c("NC", "BLQ")).

Details

The way the data frames relate to each other are mapped out below. The dimensions of the different data frames are identified below (nrow x ncol)

```

““ # col_sel # |<----->| # #|-----| — #| . . | ^ #| . . || #|
row_common_head | . table_body_head . || m #| m x n | . m x c . || #| . . | v #|-----
-----| — #| . . | ^ #| . . || #| row_common | . table_body . || #| r x n | . r x c . ||
#| . . || #|.....|.....| | - #| | / / / / / . || ^ #| . / / / / . || r | #| . / / / / . || |
row_sel #| | / / / / / . || | #| . / / / / . || v #|.....|.....|.....|.....| | - #| . . || #| . . | v
#|-----| — # #|<----->|<----->| # n c ““
    
```

Value

list with the following elements

- df: Data frame with the built table.
- ft: The data frame as a flextable object.
- notes: Note placeholders found in the table.

fetch_md_def	<i>Fetch Markdown Default Format from onbrand Object</i>
--------------	--

Description

Used to extract the formatting elements for a given style from an onbrand object.

Usage

```
fetch_md_def(obnd, style = "default", verbose = TRUE)
```

Arguments

obnd	onbrand report object
style	name of style in md_def for the report type in obnd to fetch ("default")
verbose	Boolean variable when set to TRUE (default) messages will be displayed on the terminal; Messages will be included in the returned onbrand object.

Value

list with the following elements

- isgood: Boolean variable indicating success or failure
- md_def: List with the default format for the specified style
- msgs: Vector of messages

Examples

```
obnd = read_template(  
  template = file.path(system.file(package="onbrand"), "templates", "report.docx"),  
  mapping = file.path(system.file(package="onbrand"), "templates", "report.yaml"))  
obnd = fetch_md_def(obnd, style="default")  
md_def = obnd[["md_def"]]
```

fetch_officer_object *Extracts Officer Object From Onbrand Report Object*

Description

If you need modify the onbrand report object directly with officer functions you can use this function to extract the report object from the onbrand object.

Usage

```
fetch_officer_object(obnd, verbose = TRUE)
```

Arguments

obnd	onbrand report object
verbose	Boolean variable when set to TRUE (default) messages will be displayed on the terminal; Messages will be included in the returned onbrand object.

Value

List with the following elements

- isgood: Boolean variable indicating success or failure
- rpt: Officer object
- msgs: Vector of messages

See Also

[set_officer_object](#)

Examples

```
obnd = read_template(  
  template = file.path(system.file(package="onbrand"), "templates", "report.pptx"),  
  mapping = file.path(system.file(package="onbrand"), "templates", "report.yaml"))  
  
rpt = fetch_officer_object(obnd)$rpt
```

fetch_report_format *Fetch The Specified Report Formatting Information*

Description

Returns a list of the default font format for the report element

Usage

```
fetch_report_format(obnd, format_name = "default", verbose = TRUE)
```

Arguments

obnd	onbrand report object
format_name	Name of report format to fetch; this is defined in the md_def
verbose	Boolean variable when set to TRUE (default) messages will be displayed on the terminal; Messages will be included in the returned list. section for the given report type ("default")

Value

list containing the following elements

- isgood: Boolean variable indicating success or failure
- msgs: Vector of messages
- format_details: List containing the format details for the specified format_name

Examples

```
obnd = read_template(
  template = file.path(system.file(package="onbrand"), "templates", "report.pptx"),
  mapping = file.path(system.file(package="onbrand"), "templates", "report.yaml"))

fr = fetch_report_format(obnd)
```

fetch_rpttype *Determines Type of Report Template*

Description

Based on the file extension for a template

Usage

```
fetch_rpttype(template = NULL, verbose = TRUE)
```

Arguments

template	Name of PowerPoint or Word file
verbose	Boolean variable when set to TRUE (default) messages will be displayed on the terminal; Messages will be included in the returned list.

Value

List with the following elements

- rpttype: Either Word, PowerPoint or Unknown
- rptext: Either docx, pptx, or Unknown
- rptobj: Either rdocx, rpptx, or Unknown
- isgood: Boolean variable indicating success or failure
- msgs: Vector of messages

Examples

```
rpttype = fetch_rpttype(template=
  file.path(system.file(package="onbrand"), "templates", "report.pptx"))
```

fph

Fetch PowerPoint Placeholder

Description

Retrieves the placeholder name in PowerPoint for a specified layout element.

Usage

```
fph(obnd, template = NULL, pn = NULL, verbose = TRUE)
```

Arguments

obnd	onbrand report object
template	Name of slide template (name from templates in yaml mapping file)
pn	Placehodler name to fetch
verbose	Boolean variable when set to TRUE (default) messages will be displayed on the terminal; Messages will be included in the returned list.

Value

List with the following elements

- ph: Placeholder label or NULL if failure
- type: Placeholder content type in PowerPoint or NULL if failure
- isgood: Boolean variable indicating success or failure
- msgs: Vector of messages

Examples

```
# Creating an onbrand object:
obnd = read_template(
  template = file.path(system.file(package="onbrand"), "templates", "report.pptx"),
  mapping = file.path(system.file(package="onbrand"), "templates", "report.yaml"))

# Pulling out the placeholder information:
ph = fph(obnd, "two_content_header_text", "content_left_header")
```

fst

Fetch Word Style

Description

Retrieves the style name in Word for a specified onbrand style name.

Usage

```
fst(obnd, osn = NULL, verbose = TRUE)
```

Arguments

obnd	onbrand report object
osn	onbrand Word style name to fetch
verbose	Boolean variable when set to TRUE (default) messages will be displayed on the terminal; Messages will be included in the returned list.

Value

List with the following elements

- wsn: Word style name that corresponds to the specified onbrand style name (osn)
- dff: Default font format for that style (the corresponding md_def section of the yaml file for that style)
- isgood: Boolean variable indicating success or failure
- msgs: Vector of messages

Examples

```
# Creating an onbrand object:
obnd = read_template(
  template = file.path(system.file(package="onbrand"), "templates", "report.docx"),
  mapping = file.path(system.file(package="onbrand"), "templates", "report.yaml"))

# Pulling out the placeholder information:
```

```
st = fst(obnd, "Heading_3")
```

ft_apply_md
Render Markdown in flextable Object

Description

Takes a flextable object and renders any markdown in the specified part.

Usage

```
ft_apply_md(ft, obnd = NULL, part = "body")
```

Arguments

ft	Flextable object.
obnd	Optional onbrand object used to format markdown. The default NULL value will use default formatting.
part	Part of the table can be one of "all", "body" (default), "header", or "footer"

Value

flextable with markdown applied

md_to_officer
Parse Markdown for Officer

Description

Parses text in Markdown format and returns fpar and as_paragraph command strings to be used with officer

Usage

```
md_to_officer(
  str,
  default_format = list(color = "black", font.size = 12, bold = FALSE, italic = FALSE,
    underlined = FALSE, font.family = "Cambria (Body)", vertical.align = "baseline",
    shading.color = "transparent")
)
```

Arguments

`str` string containing Markdown can contain the following elements:

- paragraph: two or more new lines creates a paragraph
- bold: can be either `**text in bold**` or `__text in bold__`
- italics: can be either `*text in italics*` or `_text in italics_`
- subscript: `Normal~subscript~`
- superscript: `Normal^superscript^`
- color: `<color:red>red text</color>`
- shade: `<shade:#33ff33>shading</shade>`
- font family: `<ff:symbol>symbol</ff>`
- reference: `<ref:key>` Where "key" is the value assigned when adding a table or figure

`default_format` list containing the default format for elements not defined with markdown default values.

```
default_format = list(
  color          = "black",
  font.size      = 12,
  bold           = FALSE,
  italic         = FALSE,
  underlined     = FALSE,
  font.family    = "Cambria (Body)",
  vertical.align = "baseline",
  shading.color  = "transparent")
```

Value

list with parsed paragraph elements with the content added to the body, each paragraph can be found in a numbered list element (e.g. `pgraph_1`, `pgraph_2`, etc) each with the following elements:

- `locs`: Dataframe showing the locations of markdown elements in the current paragraph
- `pele`: These are the individual parsed paragraph elements
- `fpar_cmd`: String containing the fpar commands.
- `fpar_cmd`: String containing the fpar commands that can be run using `eval` to return the output of fpar. For example:

```
myfpar = eval(parse(text=pgparse$pgraph_1$fpar_cmd))
```

- `as_paragraph_cmd`: String containing the `as_paragraph_cmd` that can be run using
- ```
myas_para = eval(parse(text=pgparse$pgraph_1$as_paragraph_cmd))
```

## Examples

```
res = md_to_officer("Be bold!")
fpar_obj = eval(parse(text=res$pgraph_1$fpar_cmd))
as_paragraph_obj = eval(parse(text=res$pgraph_1$as_paragraph_cmd))
```

---

md\_to\_oo *Parse Markdown into Officer as\_paragraph Result*

---

### Description

Used to take small markdown chunks and return the `as_paragraph` results. This function will take the markdown specified in `str`, calls `md_to_officer`, evals the `as_paragraph` field from the first paragraph returned, evals that result and returns the object from the `as_paragraph` command.

### Usage

```
md_to_oo(strs, default_format = NULL)
```

### Arguments

`strs` vector of strings containing Markdown can contain the following elements:  
`default_format` list containing the default format for elements not defined with markdown default values (format the same as `md_to_officer`, default is `NULL`)

### Value

list with the following elements

- `isgood`: Boolean value indicating the result of the function call
- `msgs`: sequence of strings containing a description of any problems
- `as_par_cmd`: `as_paragraph` generated code from `md_to_officer`
- `oo`: `as_paragraph` officer object resulting from running the `as_par_cmd` code

### Examples

```
res = md_to_oo("Be bold")
```

---

onbrand *onbrand: officer Abstraction Layer for Organizational Templates*

---

### Description

The `onbrand` package creates an abstraction layer that is easily configurable with a `yaml` file to allow for creation of reproducible reporting work flows across Word and PowerPoint templates.

### Author(s)

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**See Also**

<https://github.com/john-harrold/onbrand>

---

|                  |                                                                   |
|------------------|-------------------------------------------------------------------|
| preview_template | <i>Generate Report Previewing the Locations From Mapping File</i> |
|------------------|-------------------------------------------------------------------|

---

**Description**

Takes an onbrand object with a loaded template and populates the template with the elements from the mapping file.

**Usage**

```
preview_template(obnd, verbose = TRUE)
```

**Arguments**

|         |                                                                                                                                                   |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| obnd    | onbrand report object                                                                                                                             |
| verbose | Boolean variable when set to TRUE (default) messages will be displayed on the terminal; Messages will be included in the returned onbrand object. |

**Value**

onbrand object with template previews added and any messages passed along

**Examples**

```
obnd = read_template(
 template = file.path(system.file(package="onbrand"), "templates", "report.pptx"),
 mapping = file.path(system.file(package="onbrand"), "templates", "report.yaml"))
obnd = preview_template(obnd)

obnd = read_template(
 template = file.path(system.file(package="onbrand"), "templates", "report.docx"),
 mapping = file.path(system.file(package="onbrand"), "templates", "report.yaml"))
obnd = preview_template(obnd)
```

---

|               |                                          |
|---------------|------------------------------------------|
| read_template | <i>Read Word or PowerPoint Templates</i> |
|---------------|------------------------------------------|

---

### Description

Takes a given template file/yaml mapping file combination, reads in that information, checks to make sure the mapping information is correct and then returns an onbrand object.

### Usage

```
read_template(
 template = file.path(system.file(package = "onbrand"), "templates", "report.pptx"),
 mapping = file.path(system.file(package = "onbrand"), "templates", "report.yaml"),
 verbose = TRUE
)
```

### Arguments

|          |                                                                                                                                                   |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| template | Name of PowerPoint or Word file to annotate (defaults to included PowerPoint template)                                                            |
| mapping  | Name of yaml file with configuration information                                                                                                  |
| verbose  | Boolean variable when set to TRUE (default) messages will be displayed on the terminal; Messages will be included in the returned onbrand object. |

### Value

onbrand object which is a list with the following elements:

- isgood: Boolean variable indicating the current state of the object
- rpt: Officer object containing the initialized report
- rpttype: Type of report (either PowerPoint or Word)
- key\_table: Empty (NULL) mapping table for tracking cross referencing (Word only)
- placeholders: Empty list to hold placeholder substitution text (Word only)
- meta: Metadata read in from the yaml file
- mapping: Mapping yaml file
- msgs: Vector of messages indicating any errors that were encountered

### Examples

```
obnd = read_template(
 template = file.path(system.file(package="onbrand"), "templates", "report.pptx"),
 mapping = file.path(system.file(package="onbrand"), "templates", "report.yaml"))

obnd = read_template(
 template = file.path(system.file(package="onbrand"), "templates", "report.docx"),
 mapping = file.path(system.file(package="onbrand"), "templates", "report.yaml"))
```

---

 report\_add\_doc\_content

*Add Content to Body of a Word Document Report*


---

## Description

Appends content to the body of a Word document

## Usage

```
report_add_doc_content(
 obnd,
 type = NULL,
 content = NULL,
 fig_start_at = NULL,
 tab_start_at = NULL,
 verbose = TRUE
)
```

## Arguments

|              |                                                                                                                                                                  |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| obnd         | onbrand report object                                                                                                                                            |
| type         | Type of content to add                                                                                                                                           |
| content      | Content to add                                                                                                                                                   |
| fig_start_at | Indicates that you want to restart figure numbering at the specified value (e.g. 1) after adding this content a value of NULL (default) will ignore this option. |
| tab_start_at | Indicates that you want to restart figure numbering at the specified value (e.g. 1) after adding this content a value of NULL (default) will ignore this option. |
| verbose      | Boolean variable when set to TRUE (default) messages will be displayed on the terminal; Messages will be included in the returned onbrand object.                |

## Details

For each content types listed below the different content outlined is expected. Text can be specified in different formats: "text" indicates plain text, "fpar" is formatted text defined by the fpar command from the officer package, "ftext" is a list of formatted text defined by the ftext command, and "md" is text formatted in markdown format (?md\_to\_officer for markdown details).

- "break" page break, content is (NULL) and a page break will be inserted here
- "ph" adds placeholder text substitution
  - "name" placeholder name (value in body of text surrounded by three equal signs, e.g. if you have "===MYPH===", in the document the name is just "MYPH")
  - "value" value to be substituted into the placeholder ("my text")
  - "location" document location where the placeholder will be located (either "header", "footer", or "body")

- "toc" generates the table of contents, and content is a list that must contain `__one__` of the following.
  - "level" number indicating the depth of the contents to display (default: 3)
  - "style" string containing the onbrand style name to use to build the TOC
- "section" formats the current document section
  - "section\_type" type of section to apply, either "columns", "continuous", "landscape", "portrait", "columns", or "columns\_landscape"
  - "width" override the default page width with this value in inches (NULL)
  - "height" override the default page height with this value in inches (NULL)
  - "widths" column widths in inches, number of columns set by number of values (NULL)
  - "space" space in inches between columns (NULL)
  - "sep" Boolean value controlling line separating columns (FALSE)
- "text" content is a list containing a paragraph of text with the following elements
  - "text" string containing the text content either a string or the output of "fpar" for formatted text.
  - "style" string containing the style to use (default NULL will use the doc\_def, Text style)
  - "format" string containing the format, either "text", "fpar", or "md" (default NULL assumes "text" format)
- "imagefile" content is a list containing information describing an image file with the following elements
  - image string containing path to image file
  - caption caption of the image (NULL)
  - caption\_format string containing the format, either "text", "ftext", or "md" (default NULL assumes "text" format)
  - notes notes to add under the image (NULL)
  - notes\_format string containing the format, either "text", "ftext", or "md" (default NULL assumes "text" format)
  - key unique key for cross referencing e.g. "FIG\_DATA" (NULL)
  - height height of the image (NULL)
  - width width of the image (NULL)
- "ggplot" content is a list containing a ggplot object, (eg. `p = ggplot() + ....`) with the following elements
  - image ggplot object
  - caption caption of the image (NULL)
  - caption\_format string containing the format, either "text", "ftext", or "md" (default NULL assumes "text" format)
  - notes notes to add under the image (NULL)
  - notes\_format string containing the format, either "text", "ftext", or "md" (default NULL assumes "text" format)
  - key unique key for cross referencing e.g. "FIG\_DATA" (NULL)
  - height height of the image (NULL)
  - width width of the image (NULL)



- "table" content is a list containing the table content and other options with the following elements:
  - table data frame containing the tabular data
  - "style" string containing the style to use (default NULL will use the doc\_def, Table style)
  - caption caption of the table (NULL)
  - caption\_format string containing the format, either "text", "ftext", or "md" (default NULL assumes "text" format)
  - notes notes to add under the image (NULL)
  - notes\_format string containing the format, either "text", "ftext", or "md" (default NULL assumes "text" format)
  - key unique key for cross referencing e.g. "TAB\_DATA" (NULL)
  - header Boolean variable to control displaying the header (TRUE)
  - first\_row Boolean variable to indicate that the first row contains header information (TRUE)
- "flextable" content is a list containing flextable content and other options with the following elements (defaults in parenthesis):
  - table data frame containing the tabular data
  - caption caption of the table (NULL)
  - caption\_format string containing the format, either "text", "ftext", or "md" (default NULL assumes "text" format)
  - notes notes to add under the image (NULL)
  - notes\_format string containing the format, either "text", "ftext", or "md" (default NULL assumes "text" format)
  - key unique key for cross referencing e.g. "TAB\_DATA" (NULL)
  - header\_top, header\_middle, header\_bottom (NULL) a list with the same names as the data frame names containing the tabular data and values with the header text to show in the table
  - header\_format string containing the format, either "text", or "md" (default NULL assumes "text" format)
  - merge\_header (TRUE) Set to true to combine column headers with the same information
  - table\_body\_alignment, table\_header\_alignment ("center") Controls alignment
  - table\_autofit (TRUE) Automatically fit content, or specify the cell width and height with cwidth (0.75) and cheight (0.25)
  - table\_theme ("theme\_vanilla") Table theme
- "flextable\_object" content is a list specifying the a user defined flextable object with the following elements:
  - ft flextable object
  - caption caption of the table (NULL)
  - caption\_format string containing the format, either "text", "ftext", or "md" (default NULL assumes "text" format)
  - notes notes to add under the image (NULL)
  - notes\_format string containing the format, either "text", "ftext", or "md" (default NULL assumes "text" format)
  - key unique key for cross referencing e.g. "TAB\_DATA" (NULL)

**Value**

onbrand object with the content added to the body or isgood set to FALSE with any messages in the msgs field. The isgood value is a Boolean variable indicating the current state of the object.

**Examples**

```
Read Word template into an onbrand object
obnd = read_template(
 template = file.path(system.file(package="onbrand"), "templates", "report.docx"),
 mapping = file.path(system.file(package="onbrand"), "templates", "report.yaml"))

The examples below use the following packages
library(ggplot2)
library(flextable)
library(officer)

Adding text
obnd = report_add_doc_content(obnd,
 type = "text",
 content = list(text="Text with no style specified will use the doc_def text format."))

Text formatted with fpar
fpartext = fpar(
 ftext("Formatted text can be created using the ", prop=NULL),
 ftext("fpar ", prop=fp_text(color="green")),
 ftext("command from the officer package.", prop=NULL))

obnd = report_add_doc_content(obnd,
 type = "text",
 content = list(text = fpartext,
 format = "fpar",
 style = "Normal"))

Text formatted with markdown
mdtext = "Formatted text can be created using
<color:green>markdown</color> formatting"
obnd = report_add_doc_content(obnd,
 type = "text",
 content = list(text = mdtext,
 format = "md",
 style = "Normal"))

Adding figures
p = ggplot() + annotate("text", x=0, y=0, label = "picture example")
imgfile = tempfile(pattern="image", fileext=".png")
ggsave(filename=imgfile, plot=p, height=5.15, width=9, units="in")

From an image file:
obnd = report_add_doc_content(obnd,
```

```

type = "imagefile",
content = list(image = imgfile,
 caption = "This is an example of an image from a file.")

From a ggplot object
obnd = report_add_doc_content(obnd,
type = "imagefile",
content = list(image = imgfile,
 caption = "This is an example of an image from a file.))

#Adding tables
tdf = data.frame(Parameters = c("Length", "Width", "Height"),
 Values = 1:3,
 Units = c("m", "m", "m"))

Word table
tab_cont = list(table = tdf,
 caption = "Word Table.")
obnd = report_add_doc_content(obnd,
type = "table",
content = tab_cont)

onbrand flextable abstraction:
tab_cont = list(table = tdf,
 caption = "Word Table.")
obnd = report_add_doc_content(obnd,
type = "table",
content = tab_cont)

flextable object
tab_fto = flextable(tdf)
obnd = report_add_doc_content(obnd,
type = "flextable_object",
content = list(ft=tab_fto,
 caption = "Flextable object created by the user.))

Saving the report output
save_report(obnd, tempfile(fileext = ".docx"))

```

---

report\_add\_slide      *Add Slide and Content*

---

### Description

Creates a report slide and populates the content

### Usage

```
report_add_slide(obnd, template = NULL, elements = NULL, verbose = TRUE)
```

**Arguments**

|          |                                                                                                                                                                                                                                                       |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| obnd     | onbrand report object                                                                                                                                                                                                                                 |
| template | Name of slide template to use (name from templates in yaml mapping file)                                                                                                                                                                              |
| elements | Content and type for each placeholder you wish to fill for this slide: This is a list with names set to placeholders for the specified template. Each placeholder is a list and should have a content element and a type element (see Details below). |
| verbose  | Boolean variable when set to TRUE (default) messages will be displayed on the terminal; Messages will be included in the returned onbrand object.                                                                                                     |

**Details**

For example consider the mapping information for the slide template `title_slide` with the two placeholders `title` and `subtitle`.

```
rpptx:
 master: Office Theme
 templates:
 title_slide:
 title:
 type: ctrTitle
 index: 1
 ph_label: Title 1
 content_type: text
 subtitle:
 type: subTitle
 index: 1
 ph_label: Subtitle 2
 content_type: text
```

This shows how to populate a title slide with text:

```
obnd = report_add_slide(obnd,
 template = "title_slide",
 elements = list(
 title = list(content = "Slide Title",
 type = "text"),
 subtitle = list(content = "Subtitle",
 type = "text"))))
```

See the function [add\\_pptx\\_ph\\_content](#) for a list of allowed values for type. Note that if mapping defines the `content_type` as `text`, you cannot use a list type. Similarly, if the `content_type` is defined as `list`, you cannot use a text type.

**Value**

onbrand report object with either the content added or `isgood` set to `FALSE` with any messages in the `msgs` field. The `isgood` value is a Boolean variable indicating the current state of the object.

**See Also**[add\\_pptx\\_ph\\_content](#)**Examples**

```

obnd = read_template(
 template = file.path(system.file(package="onbrand"), "templates", "report.pptx"),
 mapping = file.path(system.file(package="onbrand"), "templates", "report.yaml"))

obnd = report_add_slide(obnd,
 template = "content_text",
 elements = list(
 title = list(content = "Text Example",
 type = "text"),
 sub_title = list(content = "Adding a slide with a block of text",
 type = "text"),
 content_body = list(content = "A block of text",
 type = "text")))

```

---

`save_report`*Save Onbrand Report to a File*

---

**Description**

Saves report in onbrand object to the specified file.

**Usage**

```
save_report(obnd, output_file = NULL, verbose = TRUE)
```

**Arguments**

|                          |                                                                                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>obnd</code>        | onbrand report object                                                                                                                             |
| <code>output_file</code> | File name to save the report.                                                                                                                     |
| <code>verbose</code>     | Boolean variable when set to TRUE (default) messages will be displayed on the terminal; Messages will be included in the returned onbrand object. |

**Value**

List with the following elements

- `isgood`: Boolean variable indicating success or failure
- `msgs`: Vector of messages

**Examples**

```

obnd = read_template(
 template = file.path(system.file(package="onbrand"), "templates", "report.pptx"),
 mapping = file.path(system.file(package="onbrand"), "templates", "report.yaml"))

save_report(obnd, tempfile(fileext = ".pptx"))

obnd = read_template(
 template = file.path(system.file(package="onbrand"), "templates", "report.docx"),
 mapping = file.path(system.file(package="onbrand"), "templates", "report.yaml"))

save_report(obnd, tempfile(fileext = ".docx"))

```

---

set\_officer\_object      *Places Officer Object Into Onbrand Report Object*

---

**Description**

After modifying a report object manually, you can return it to the onbrand object using this function.

**Usage**

```
set_officer_object(obnd, rpt = NULL, verbose = TRUE)
```

**Arguments**

|         |                                                                                                                                                   |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| obnd    | onbrand report object                                                                                                                             |
| rpt     | officer object                                                                                                                                    |
| verbose | Boolean variable when set to TRUE (default) messages will be displayed on the terminal; Messages will be included in the returned onbrand object. |

**Value**

onbrand object with the report replaced

**See Also**

[fetch\\_officer\\_object](#)

**Examples**

```

obnd = read_template(
 template = file.path(system.file(package="onbrand"), "templates", "report.pptx"),
 mapping = file.path(system.file(package="onbrand"), "templates", "report.yaml"))

```

```

pulling out the report
rpt = fetch_officer_object(obnd)$rpt

Modifications would be made here with officer directly

Replacing the report into the onbrand object
obnd = set_officer_object(obnd, rpt)

```

---

span\_table

*Spread Large Table Over Smaller Tables*


---

### Description

Takes a large table and spreads it over smaller tables to paginate it. It will preserve common row information on the left and separate columns according to maximum specifications. The final tables will have widths less than or equal to both `max_col` and `max_width`, and heights less than or equal to both `max_row` and `max_height`.

### Usage

```

span_table(
 table_body = NULL,
 row_common = NULL,
 table_body_head = NULL,
 row_common_head = NULL,
 header_format = "text",
 obnd = NULL,
 max_row = 20,
 max_col = 10,
 max_height = 7,
 max_width = 6.5,
 table_alignment = "center",
 inner_border = officer::fp_border(color = "black", width = 0.3),
 outer_border = officer::fp_border(color = "black", width = 2),
 set_header_inner_border_v = TRUE,
 set_header_inner_border_h = TRUE,
 set_header_outer_border = TRUE,
 set_body_inner_border_v = TRUE,
 set_body_inner_border_h = FALSE,
 set_body_outer_border = TRUE,
 notes_detect = NULL
)

```

### Arguments

|                         |                                              |
|-------------------------|----------------------------------------------|
| <code>table_body</code> | Data frame with the body of the large table. |
| <code>row_common</code> | Data frame with the common rows.             |

|                           |                                                                                                                                        |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| table_body_head           | Data frame or matrix with headers for the table body.                                                                                  |
| row_common_head           | Data frame or matrix with headers for the common rows.                                                                                 |
| header_format             | Format of the header either "text" (default) or "md" for markdown.                                                                     |
| obnd                      | Optional onbrand object used to format markdown. The default NULL value will use default formatting.                                   |
| max_row                   | Maximum number of rows in output tables (A value of NULL will set max_row to the number of rows in the table).                         |
| max_col                   | Maximum number of columns in output tables (A value of NULL will set max_col to number of columns in the table).                       |
| max_height                | Maximum height of the final table in inches (A value of NULL will use 100 inches).                                                     |
| max_width                 | Maximum width of the final table in inches (A value of NULL will use 100 inches).                                                      |
| table_alignment           | Character string specifying the alignment #' of the table (body and headers). Can be "center" (default), "left", "right", or "justify" |
| inner_border              | Border object for inner border lines defined using officer::fp_border()                                                                |
| outer_border              | Border object for outer border lines defined using officer::fp_border()                                                                |
| set_header_inner_border_v | Boolean value to enable or disable inner vertical borders for headers                                                                  |
| set_header_inner_border_h | Boolean value to enable or disable inner horizontal borders for headers                                                                |
| set_header_outer_border   | Boolean value to enable or disable outer border for headers                                                                            |
| set_body_inner_border_v   | Boolean value to enable or disable inner vertical borders for the body                                                                 |
| set_body_inner_border_h   | Boolean value to enable or disable inner horizontal borders for the body                                                               |
| set_body_outer_border     | Boolean value to enable or disable outer border borders for the body                                                                   |
| notes_detect              | Vector of strings to detect in output tables (example c("NC", "BLQ")).                                                                 |

## Details

The way the data frames relate to each other are mapped out below. The dimensions of the different data frames are identified below (nrow x ncol)

```

““ #|-----| — #|^#||| #| row_common_head | table_body_head || m #
m x n | m x c || #|| v #|-----| — #|^#||| #| row_common | table_body
|| r #| r x n | r x c || #||| #|| v #|-----| — # #|<----->|<-----
—>| # n c ““

```



**Value**

list with the following elements

- `isgood`: Boolean indicating the exit status of the function.
- `one_body`: Full table with no headers.
- `one_table`: Full table with headers.
- `msgs`: Vector of text messages describing any errors that were found.
- `tables`: Named list of tables. Each list element is of the output. format from `build_span()`.

**See Also**

[build\\_span](#) for the relationship of inputs.

**Examples**

```
if(interactive()){
 trow = c(1:51)
 tcol = c(1:63)
 cht = c(rep("A", 20),
 rep("B", 20),
 rep("C", 11))

 table_body = NULL
 for(cn in tcol){
 if(is.null(table_body)){
 tmp_cmd = paste0("table_body = data.frame(C_",
 cn, "= paste0(trow, ',', cn))")
 } else {
 tmp_cmd = paste0("table_body = cbind(table_body, data.frame(C_",
 cn, "= paste0(trow, ',', cn))")
 }
 eval(parse(text=tmp_cmd))
 }

 table_body[1,] = "BQL"
 table_body[5,8] = "NC"
 table_body[20,] = "BQL"
 table_body[25,2] = "NC"

 row_common = data.frame(
 ID = trow,
 CH = cht)

 row_common_head = data.frame(
 ID = c("ID", "ID", "ID"),
 CH = c("Cohort", "Cohort", "Cohort"))
```

```
table_body_head = NULL

cidx = 1
for(cn in names(table_body)){

 units = "units"
 range = "range"

 if(cidx < 4){
 range = "R A"
 } else if(cidx < 12){
 range = "R B"
 } else if(cidx < 18){
 range = "R C"
 } else if(cidx < 28){
 range = "R D"
 } else if(cidx < 35){
 range = "R E"
 } else if(cidx < 48){
 range = "R F"
 } else if(cidx < 55){
 range = "R G"
 } else if(cidx < 60){
 range = "R H"
 } else {
 range = "R I"
 }

 if(cidx < 4){
 units = "U A"
 } else if(cidx < 8){
 units = "U B"
 } else if(cidx < 14){
 units = "U Q"
 } else if(cidx < 18){
 units = "U C"
 } else if(cidx < 28){
 units = "U D"
 } else if(cidx < 35){
 units = "U E"
 } else if(cidx < 48){
 units = "U F"
 } else if(cidx < 55){
 units = "U G"
 } else if(cidx < 60){
 units = "U H"
 } else {
 units = "U I"
 }

 if(is.null(table_body_head)){
 tmp_cmd = paste0("table_body_head = data.frame(",
```

```

 cn, '= c("", cn, "", units, range))')
 } else {
 tmp_cmd = paste0("table_body_head = cbind(table_body_head, data.frame(",
 cn, '= c("", cn, "", units, range)))')
 }

 eval(parse(text=tmp_cmd))
 cidx = cidx + 1
}

res =
span_table(table_body = table_body,
 row_common = row_common,
 table_body_head = table_body_head,
 row_common_head = row_common_head,
 max_row = 20,
 max_col = 10,
 notes_detect = c("BQL", "NC"))

}

```

---

template\_details

*Show Template Details for 'onbrand' Object*


---

## Description

Takes an onbrand object with a loaded template and displays relevant details about the template.

## Usage

```
template_details(obnd, verbose = TRUE)
```

## Arguments

|         |                                                                                                                                                   |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| obnd    | onbrand report object                                                                                                                             |
| verbose | Boolean variable when set to TRUE (default) messages will be displayed on the terminal; Messages will be included in the returned results object. |

## Details

Provides relevant details about an onbrand object. For PowerPoint this contains the template names and elements present for that template. For Word it will contain defined text and table styles. This information can be displayed in the console, returned as text or formatted for use in RMarkdown documentation.

**Value**

list with the following elements:

- rpttype: Type of report (either PowerPoint or Word)
- msgs: Vector of messages with details or any errors that were encountered
- txt: Vector of template details in text format
- df: Vector of template details in a dataframe
- ft: Vector of template details in flextable format
- isgood: Boolean variable indicating the current state of the object

**Examples**

```
obnd = read_template(
 template = file.path(system.file(package="onbrand"), "templates", "report.pptx"),
 mapping = file.path(system.file(package="onbrand"), "templates", "report.yaml"))
details = template_details(obnd)
```

```
obnd = read_template(
 template = file.path(system.file(package="onbrand"), "templates", "report.docx"),
 mapping = file.path(system.file(package="onbrand"), "templates", "report.yaml"))
details = template_details(obnd)
```

---

 view\_layout

*Generate Annotated Layout for Report Templates*


---

**Description**

Produces a report with each layout element labeled.

**Usage**

```
view_layout(
 template = file.path(system.file(package = "onbrand"), "templates", "report.pptx"),
 output_file = NULL,
 verbose = TRUE
)
```

**Arguments**

|             |                                                                                                                                             |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| template    | Name of PowerPoint or Word file to annotate (defaults to included PowerPoint template)                                                      |
| output_file | name of file to place the annotated layout information, set to NULL and it will generate a file named layout with the appropriate extension |
| verbose     | Boolean variable when set to TRUE (default) messages will be                                                                                |

**Details**

Generates an Annotated report based on the template provided. Elements of slide masters are identified by placeholder labels. As PowerPoint masters are created the labels can be difficult to predict. Word documents are identified by style names. This function will create a layout file identifying all of the elements of each slide master for a PowerPoint template or each paragraph and table style for a Word template.

**Value**

List with the following elements

- isgood: Boolean variable indicating success or failure
- rpt: Officer with the annotated layout
- msgs: Vector of messages

**Examples**

```
lpptx = view_layout(
 template = file.path(system.file(package="onbrand"), "templates", "report.pptx"),
 output_file = file.path(tempdir(), "layout.pptx"))

ldocx = view_layout(
 template = file.path(system.file(package="onbrand"), "templates", "report.docx"),
 output_file = file.path(tempdir(), "layout.docx"))
```

# Index

[add\\_pptx\\_ph\\_content](#), [2](#), [20](#), [21](#)

[build\\_span](#), [3](#), [25](#)

[fetch\\_md\\_def](#), [5](#)

[fetch\\_officer\\_object](#), [6](#), [22](#)

[fetch\\_report\\_format](#), [7](#)

[fetch\\_rpttype](#), [7](#)

[fph](#), [8](#)

[fst](#), [9](#)

[ft\\_apply\\_md](#), [10](#)

[md\\_to\\_officer](#), [10](#), [12](#)

[md\\_to\\_oo](#), [12](#)

[onbrand](#), [12](#)

[onbrand-package \(onbrand\)](#), [12](#)

[preview\\_template](#), [13](#)

[read\\_template](#), [14](#)

[report\\_add\\_doc\\_content](#), [15](#)

[report\\_add\\_slide](#), [19](#)

[save\\_report](#), [21](#)

[set\\_officer\\_object](#), [6](#), [22](#)

[span\\_table](#), [23](#)

[template\\_details](#), [27](#)

[view\\_layout](#), [3](#), [28](#)