Package 'rvg'

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Type Package

Title R Graphics Devices for 'Office' Vector Graphics Output

Version 0.3.5

Description Vector Graphics devices for 'Microsoft PowerPoint' and 'Microsoft Excel'. Functions extending package 'officer' are provided to embed 'DrawingML' graphics into 'Microsoft PowerPoint' presentations and 'Microsoft Excel' workbooks.

SystemRequirements libpng

License GPL-3

Encoding UTF-8

Depends R (>= 3.0)

Imports grDevices, Rcpp (>= 0.12.12), officer (>= 0.6.2), gdtools (>= 0.3.3), xml2 (>= 1.0.0), rlang

LinkingTo Rcpp, gdtools

Suggests testthat, grid

URL https://ardata-fr.github.io/officeverse/,

https://davidgohel.github.io/rvg/

BugReports https://github.com/davidgohel/rvg/issues

RoxygenNote 7.3.2

NeedsCompilation yes

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dml

Wrap plot instructions for DrawingML plotting in Powerpoint

Description

A simple wrapper to mark the plot instructions as Vector Graphics instructions. It produces an object of class 'dml' with a corresponding method ph_with.

The function enable usage of any R plot with argument code and with ggplot objects with argument ggobj.

Usage

```
dml(
  code,
  ggobj = NULL,
 bg = "white",
  fonts = list(),
 pointsize = 12,
 editable = TRUE,
  . . .
```

Arguments

)

code	plotting instructions
ggobj	ggplot object to print. argument code will be ignored if this argument is supplied.
bg, fonts, points	ize, editable
	Parameters passed to dml_pptx
	unused arguments

background color

When dealing with a ggplot object argument bg will have no effect because ggplot theme is specifying background color, don't forget to define the colors you want in the theme:

theme(

```
panel.background = element_rect(fill = "#EFEFEF"),
plot.background = element_rect(fill = "wheat"))
```

dml_pptx

See Also

ph_with.dml

Examples

```
anyplot <- dml(code = barplot(1:5, col = 2:6), bg = "wheat")
library(officer)
doc <- read_pptx()
doc <- add_slide(doc, "Title and Content", "Office Theme")
doc <- ph_with(doc, anyplot, location = ph_location_fullsize())
fileout <- tempfile(fileext = ".pptx")
# fileout <- "vg.pptx"</pre>
```

dml_pptx

DrawingML graphic device for Microsoft PowerPoint

Description

Graphics devices for Microsoft PowerPoint DrawingML format.

Usage

```
dml_pptx(
   file = "Rplots.dml",
   width = 6,
   height = 6,
   offx = 1,
   offy = 1,
   bg = "white",
   fonts = list(),
   pointsize = 12,
   editable = TRUE,
   id = 1L,
   last_rel_id = 1L,
   raster_prefix = "raster_",
   standalone = TRUE
)
```

print(doc, target = fileout)

Arguments

file	the file where output will appear.
height, width	Height and width in inches.
offx, offy	top and left origin of the plot
bg	Default background color for the plot (defaults to "white").

fonts	Named list of font names to be aliased with fonts installed on your system. If unspecified, the R default families sans, serif, mono and symbol are aliased to the family returned by match_family().
	When you use specific fonts, you will need that font installed on your system. This can be check with package gdtools and function gdtools::font_family_exists().
	An example: list(sans = "Roboto", serif = "Times", mono = "Courier").
pointsize	default point size.
editable	should vector graphics elements (points, text, etc.) be editable.
id	specifies a unique identifier (integer) within the slide that will contain the Draw- ingML instructions.
last_rel_id	specifies the last unique identifier (integer) within relationship file that will be used to reference embedded raster images if any.
raster_prefix	string value used as prefix for png files produced when raster objects are printed on the graphical device.
standalone	produce a standalone drawingml file? If FALSE, omits xml header and names- paces.

See Also

Devices

Examples

```
dml_pptx(file = tempfile())
plot(1:11, (-5:5)^2, type = "b", main = "Simple Example")
dev.off()
```

dml_xlsx

DrawingML graphic device for Microsoft Excel

Description

Graphics devices for Microsoft Excel DrawingML format.

Usage

```
dml_xlsx(
   file = "Rplots.dml",
   width = 6,
   height = 6,
   offx = 1,
   offy = 1,
   bg = "white",
   fonts = list(),
   pointsize = 12,
```

dml_xlsx

```
editable = TRUE,
id = 1L,
last_rel_id = 1L,
raster_prefix = "raster_",
standalone = TRUE
)
```

Arguments

file	the file where output will appear.
height, width	Height and width in inches.
offx, offy	top and left origin of the plot
bg	Default background color for the plot (defaults to "white").
fonts	Named list of font names to be aliased with fonts installed on your system. If unspecified, the R default families sans, serif, mono and symbol are aliased to the family returned by match_family().
pointsize	default point size.
editable	should vector graphics elements (points, text, etc.) be editable.
id	specifies a unique identifier (integer) within the slide that will contain the Draw- ingML instructions.
last_rel_id	specifies the last unique identifier (integer) within relationship file that will be used to reference embedded raster images if any.
raster_prefix	string value used as prefix for png files produced when raster objects are printed on the graphical device.
standalone	produce a standalone drawingml file? If FALSE, omits xml header and names- paces.

See Also

Devices

Examples

```
dml_xlsx(file = tempfile())
plot(1:11, (-5:5)^2, type = "b", main = "Simple Example")
dev.off()
```

ph_with.dml

Description

produces a vector graphics output from R plot instructions stored in a dml object and add the result in an rpptx object produced by read_pptx.

Usage

```
## S3 method for class 'dml'
ph_with(x, value, location, ...)
```

Arguments

х	a pptx device
value	dml object
location	a location for a placeholder.
	Arguments to be passed to methods

Examples

```
anyplot <- dml(code = barplot(1:5, col = 2:6), bg = "wheat")
library(officer)
doc <- read_pptx()
doc <- add_slide(doc, "Title and Content", "Office Theme")
doc <- ph_with(doc, anyplot, location = ph_location_fullsize())
fileout <- tempfile(fileext = ".pptx")</pre>
```

```
print(doc, target = fileout)
```

xl_add_vg

add a plot output as vector graphics into an Excel object

Description

produces a vector graphics output from R plot instructions and add the result in an Excel sheet. by read_xlsx.

Usage

```
xl_add_vg(x, sheet, code, left, top, width, height, ...)
```

xl_add_vg

Arguments

х	an rxlsx object produced by officer::read_xlsx
sheet	sheet label/name
code	plot instructions
left, top	left and top origin of the plot on the slide in inches.
height, width	Height and width in inches.
	arguments passed on to dml_xlsx.

Examples

```
library(officer)
my_ws <- read_xlsx()
my_ws <- xl_add_vg(my_ws,
    sheet = "Feuil1",
    code = barplot(1:5, col = 2:6), width = 6, height = 6, left = 1, top = 2
)
fileout <- tempfile(fileext = ".xlsx")
print(my_ws, target = fileout)</pre>
```

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