

Package: oxthema (via r-universe)

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Type Package

Title Oxford Colours, Palettes, Fonts, and Themes

Version 0.0.0.9002

Description Colours, palettes, fonts, and themes based on University of Oxford's visual identity guidelines
<<https://communications.web.ox.ac.uk/communications-resources/visual-identity/identity-guidelines>>.

License GPL (>= 3)

Depends R (>= 4.1.0)

Imports forestploter, ggplot2, stringr, systemfonts, withr

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BugReports <https://github.com/OxfordIHTM/oxthema/issues>

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cmyk2rgb	<i>Convert CMYK to RGB</i>
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Description

Convert CMYK to RGB

Usage

cmyk2rgb(C, M, Y, K)

Arguments

- C An integer value for cyan
- M An integer value for magenta
- Y An integer value for yellow
- K An integer value for key (black)

Value

A named vector for R, G, and B for RGB

Examples

cmyk2rgb(100, 80, 0, 60)

`create_palette_sequential`*Create new palettes based on Oxford palettes*

Description

These functions apply a similar approach used and demonstrated by **ColorBrewer** and has been patterned after the syntax of the **RColorBrewer** package

Usage

```
create_palette_sequential(n, name)
```

```
create_palette_divergent(n, name)
```

```
create_palette_qualitative(n, name)
```

```
create_brewer_palette(n, name, type = c("sequential", "divergent"))
```

Arguments

n	Number of colours desired/required. Oxford palettes have at least 5 colours. All colour schemes are derived from the University of Oxford visual identity guidelines .
name	Name of Oxford palette to use
type	A character value for type of palette to use. Can be either sequential, divergent, or qualitative.

Value

A character vector of desired/required colours with length equivalent to n

Examples

```
create_palette_sequential(5, "blues")
create_palette_divergent(10, "brbg")
create_palette_qualitative(5, "dark")
create_brewer_palette(5, "blues")
```

get_oxford_colour	<i>Get named Oxford colours vector</i>
-------------------	--

Description

Get named Oxford colours vector

Usage

```
get_oxford_colour(  
  pattern = NULL,  
  model = c("hex", "rgb", "cmyk", "pantone"),  
  named = FALSE  
)  
  
get_oxford_colours(  
  pattern = NULL,  
  model = c("hex", "rgb", "cmyk", "pantone"),  
  named = FALSE  
)
```

Arguments

pattern	Optional. A character value or vector to use as a search term. Default is NULL in which case all the Oxford colours are returned.
model	A character vector of colour model. Can be "rgb", "cmyk", "hex", or "pantone". Default is "hex".
named	Logical. Should the output be a named character value or vector? Default is FALSE.

Value

A character value or vector of Oxford colour/s as per model specification. If named is TRUE, returns a named character value or vector.

Examples

```
get_oxford_colours()  
get_oxford_colours(model = "rgb")  
get_oxford_colours(pattern = "lilac")  
get_oxford_colours(pattern = c("lilac", "sage green"))
```

nut_survey_map	<i>Example map data for showing map plotting with Oxford colours</i>
----------------	--

Description

Example map data for showing map plotting with Oxford colours

Usage

```
nut_survey_map
```

Format

An sf object with 12 columns and 15 rows:

Variable	Description
<i>stateID</i>	State identifier
<i>localityID</i>	Locality identifier
<i>state_name</i>	State name
<i>district</i>	District name
<i>muac_gam</i>	Prevalence of global acute malnutrition by MUAC
<i>muac_mam</i>	Prevalence of moderate acute malnutrition by MUAC
<i>muac_sam</i>	Prevalence of severe acute malnutrition by MUAC
<i>oedema</i>	Prevalence of severe acute malnutrition by oedema
<i>dia</i>	Period prevalence of childhood diarrhoea
<i>fev</i>	Period prevalence of childhood fever
<i>bf</i>	Prevalence of continued breastfeeding
<i>geom</i>	Geometry

Examples

```
nut_survey_map
```

oxford_colours	<i>Oxford colours based on University of Oxford's visual identity guidelines</i>
----------------	--

Description

Oxford colours based on University of Oxford's visual identity guidelines

Usage

```
oxford_colours
```

Format

A data frame with 5 columns and 34 rows:

Variable	Description
<i>name</i>	Official Oxford colour name
<i>rgb</i>	Three integers for the red, green, blue components of the RGB colour model
<i>cmymk</i>	Four integers for the cyan, magenta, yellow, and black components of the CMYK colour model
<i>hex</i>	Hexadecimal codes for corresponding colour
<i>pantone</i>	Pantone colour name

Source

<https://communications.web.ox.ac.uk/communications-resources/visual-identity/identity-guidelines/colours>

Examples

```
oxford_colours
```

```
oxford_fonts
```

```
Oxford core and additional fonts
```

Description

Oxford core and additional fonts

Check whether Oxford fonts (core and theme) are installed and available

Usage

```
oxford_fonts
```

```
check_oxford_fonts()
```

Format

An object of class `list` of length 7.

Value

A list of available and not available fonts and a message indicating availability status of Oxford fonts.

Examples

```
check_oxford_fonts()
```

oxford_theme_palettes *Oxford theme palettes from visual identity guidelines*

Description

Oxford theme palettes from visual identity guidelines
 Oxford base map palettes

Usage

```
oxford_theme_palettes()

oxford_brewer_palettes()
```

Examples

```
oxford_theme_palettes()

oxford_brewer_palettes()
```

print.palette	<i>Print a palette</i>
---------------	------------------------

Description

Print a palette

Usage

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

Arguments

x	A character value or a vector of values of class palette.
...	Other arguments

Value

Shows image of a palette with the specified colours.

Examples

```
## Not run:
pal <- oxford_theme_palettes()$heritage
class(pal) <- palette

## End(Not run)
```

theme_oxford

*A generic/base [ggplot2::ggplot2](#) theme for the *oxthema* package*

Description

This generic/base [ggplot2::ggplot2](#) theme is the template from which all other themes in the *oxthema* package is built on. This theme is inspired by Bob Rudis' *hrbrthemes* package drawing heavily on its typography-centric focus. This function uses the *Roboto* Google font which is the core Oxford sans serif font. It is freely downloadable and easily installed on any system.

Usage

```
theme_oxford(
  base_family = "Roboto",
  base_size = 11.5,
  plot_title_family = base_family,
  plot_title_size = 16,
  plot_title_face = "bold",
  plot_title_colour = get_oxford_colour("Oxford blue"),
  plot_title_margin = 10,
  subtitle_family = base_family,
  subtitle_size = 12,
  subtitle_face = "plain",
  subtitle_colour = get_oxford_colour("ash"),
  subtitle_margin = 15,
  strip_text_family = base_family,
  strip_text_size = 12,
  strip_text_face = "plain",
  caption_family = base_family,
  caption_size = 9,
  caption_face = "italic",
  caption_colour = get_oxford_colour("ash"),
  caption_margin = 10,
  axis_text_size = base_size,
  axis_title_family = subtitle_family,
  axis_title_size = 9,
  axis_title_colour = get_oxford_colour("ash"),
  axis_title_face = "plain",
  axis_title_just = "rt",
```

```

    legend_title_family = subtitle_family,
    legend_title_colour = get_oxford_colour("ash"),
    legend_text_family = subtitle_family,
    legend_text_colour = get_oxford_colour("ash"),
    plot_margin = ggplot2::margin(30, 30, 30, 30),
    plot_background_fill = NULL,
    grid_col = get_oxford_colour("umber"),
    grid = TRUE,
    axis_col = get_oxford_colour("umber"),
    axis = FALSE,
    ticks = FALSE
  )

```

Arguments

<code>base_family</code>	Base font family set to Roboto by default.
<code>base_size</code>	Base font size. Default is 11.5.
<code>plot_title_family</code>	Font family to use for the plot title. Default is <code>base_family</code> .
<code>plot_title_size</code>	Plot title text size in pts. Default is 16.
<code>plot_title_face</code>	Font face ("plain", "italic", "bold", "bold.italic") for plot title. Default is "bold".
<code>plot_title_colour</code>	Colour of the plot title text. Default is Oxford Blue.
<code>plot_title_margin</code>	Margin at the bottom of the plot title. Default set at 10.
<code>subtitle_family</code>	Font family to use for the plot subtitle. Default is <code>base_family</code> .
<code>subtitle_size</code>	Plot subtitle text size in pts. Default is 12.
<code>subtitle_face</code>	Font face ("plain", "italic", "bold", "bold.italic") for plot subtitle. Default is "plain".
<code>subtitle_colour</code>	Colour of the subtitle text. Default is Oxford ash grey.
<code>subtitle_margin</code>	Margin at the bottom of the plot subtitle. Default set at 15.
<code>strip_text_family</code>	Font family to use for the facet label. Default is <code>base_family</code> .
<code>strip_text_size</code>	Facet label text size in pts. Default is 12.
<code>strip_text_face</code>	Font face ("plain", "italic", "bold", "bold.italic") for facet label. Default is "plain".
<code>caption_family</code>	Font family to use for the caption text. Default is <code>base_family</code> .
<code>caption_size</code>	Caption text size in pts. Default is 9.

caption_face	Font face ("plain", "italic", "bold", "bold.italic") for caption text. Default is "plain".
caption_colour	Colour of the caption text. Default is Oxford ash grey.
caption_margin	Margin at the top of the plot caption text. Default is set at 10.
axis_text_size	Axis text size in pts. Default is base_size.
axis_title_family	Font family to use for the axis title. Default is subtitle_family.
axis_title_size	Axis title text size in pts. Default is 9.
axis_title_colour	Colour of the axis title text. Default is Oxford ash grey.
axis_title_face	Font face ("plain", "italic", "bold", "bold.italic") for axis title. Default is "plain".
axis_title_just	Axis title font justification, one of "bl" (bottom-left), "m" (middle), "rt" (right-top). Default is "rt".
legend_title_family	Font family to use for the legend title. Default is subtitle_family.
legend_title_colour	Colour of the legend title text. Default is Oxford ash grey.
legend_text_family	Font family to use for the legend text. Default is subtitle_family.
legend_text_colour	Colour of the legend text. Default is Oxford ash grey.
plot_margin	Plot margins (specify with <code>ggplot2::margin()</code>).
plot_background_fill	Fill colour for the plot background. Default is NULL.
grid_col	Grid colour. Default to Oxford umber.
grid	Panel grid. Either TRUE, FALSE, or a combination of X (major x grid), x (minor x grid), Y (major y grid), and/or y (minor y grid). Default is TRUE.
axis_col	Axis colours. Default to Oxford umber.
axis	Add x or y axes? TRUE, FALSE, "xy". Default is FALSE.
ticks	Logical. Should ticks be added? Default is FALSE.

Value

A `ggplot2::ggplot2` theme.

theme_oxford_forest	<i>Oxford theme for forestploter::forestploter package</i>
---------------------	--

Description

Oxford theme for [forestploter::forestploter](#) package

Usage

```
theme_oxford_forest(  
  base_size = 11.5,  
  base_family = "Roboto",  
  bg_col = get_oxford_colour("cool"),  
  ci_col = get_oxford_colour("Oxford blue"),  
  ci_fill = ci_col,  
  reffline_col = get_oxford_colour("red"),  
  vertline_col = get_oxford_colour("ash"),  
  summary_col = get_oxford_colour("ash"),  
  summary_fill = summary_col,  
  footnote_cex = 0.7,  
  footnote_fontface = "plain",  
  footnote_col = get_oxford_colour("royal"),  
  title_col = get_oxford_colour("Oxford blue"),  
  title_fontfamily = base_family,  
  arrow_fill = get_oxford_colour("Oxford blue"),  
  arrow_col = arrow_fill  
)  
  
theme_heritage_forest(  
  base_size = 11,  
  base_family = "Roboto",  
  bg_col = get_oxford_colour("sage"),  
  ci_col = get_oxford_colour("Oxford blue"),  
  ci_fill = ci_col,  
  reffline_col = get_oxford_colour("sienna"),  
  vertline_col = get_oxford_colour("peach"),  
  summary_col = get_oxford_colour("green"),  
  summary_fill = summary_col,  
  footnote_cex = 0.8,  
  footnote_fontface = "plain",  
  footnote_col = get_oxford_colour("green"),  
  title_col = get_oxford_colour("Oxford blue"),  
  title_fontfamily = "Marcellus",  
  arrow_fill = get_oxford_colour("Oxford blue"),  
  arrow_col = arrow_fill  
)
```

```

theme_contemporary_forest(
  base_size = 10.5,
  base_family = "Roboto",
  bg_col = get_oxford_colour("cool"),
  ci_col = get_oxford_colour("Oxford blue"),
  ci_fill = ci_col,
  refline_col = get_oxford_colour("coral"),
  vertline_col = get_oxford_colour("potters"),
  summary_col = get_oxford_colour("aqua"),
  summary_fill = summary_col,
  footnote_cex = 0.7,
  footnote_fontface = "plain",
  footnote_col = get_oxford_colour("aqua"),
  title_col = get_oxford_colour("Oxford blue"),
  title_fontfamily = "Montserrat",
  arrow_fill = get_oxford_colour("Oxford blue"),
  arrow_col = arrow_fill
)

```

```

theme_celebratory_forest(
  base_size = 10.5,
  base_family = "Roboto",
  bg_col = get_oxford_colour("lavender"),
  ci_col = get_oxford_colour("Oxford blue"),
  ci_fill = ci_col,
  refline_col = get_oxford_colour("plum"),
  vertline_col = get_oxford_colour("mauve"),
  summary_col = get_oxford_colour("viridian"),
  summary_fill = summary_col,
  footnote_cex = 0.7,
  footnote_fontface = "plain",
  footnote_col = get_oxford_colour("viridian"),
  title_col = get_oxford_colour("Oxford blue"),
  title_fontfamily = "Noto Serif Display",
  arrow_fill = get_oxford_colour("Oxford blue"),
  arrow_col = arrow_fill
)

```

```

theme_corporate_forest(
  base_size = 10.5,
  base_family = "Roboto",
  bg_col = get_oxford_colour("sky"),
  ci_col = get_oxford_colour("Oxford blue"),
  ci_fill = ci_col,
  refline_col = get_oxford_colour("orange"),
  vertline_col = get_oxford_colour("sky"),
  summary_col = get_oxford_colour("royal"),
  summary_fill = summary_col,

```

```

    footnote_cex = 0.7,
    footnote_fontface = "plain",
    footnote_col = get_oxford_colour("royal"),
    title_col = get_oxford_colour("Oxford blue"),
    title_fontfamily = "Bebas Neue",
    arrow_fill = get_oxford_colour("Oxford blue"),
    arrow_col = arrow_fill
)

```

```

theme_innovative_forest(
  base_size = 10.5,
  base_family = "Roboto",
  bg_col = get_oxford_colour("lavender"),
  ci_col = get_oxford_colour("Oxford blue"),
  ci_fill = ci_col,
  refline_col = get_oxford_colour("Oxford pink"),
  vertline_col = get_oxford_colour("vivid"),
  summary_col = get_oxford_colour("viridian"),
  summary_fill = summary_col,
  footnote_cex = 0.7,
  footnote_fontface = "plain",
  footnote_col = get_oxford_colour("viridian"),
  title_col = get_oxford_colour("Oxford blue"),
  title_fontfamily = "Phudu",
  arrow_fill = get_oxford_colour("Oxford blue"),
  arrow_col = arrow_fill
)

```

Arguments

base_size	The size of text
base_family	The font family to use for the text. Default to main Oxford font <i>Roboto</i>
bg_col	Background colour for alternating rows. Default to <i>Oxford cool grey</i> .
ci_col	Colour of the CI. A vector of colour should be provided for the grouped forest plot. Default set to <i>Oxford blue</i>
ci_fill	Colour fill the point estimation. A vector of colour should be provided for the grouped forest plot. Default to value of ci_col.
refline_col	Line colour for the reference line. Default set to <i>Oxford red</i> .
vertline_col	Line colour for the extra vertical line. Default set to <i>Oxford ash grey</i> .
summary_col	Colour for borders of the summary diamond shape. Default set to <i>Oxford ash grey</i>
summary_fill	Colour for filling the summary diamond shape. Default set to value of summary_col.
footnote_cex	Multiplier applied to font size for footnote.
footnote_fontface	The font face for footnote. Default to <i>plain</i> .
footnote_col	Colour of the footnote. Default set to <i>Oxford royal blue</i> .

<code>title_col</code>	Colour of title. Default set to <i>Oxford blue</i>
<code>title_fontfamily</code>	Font family of title. Default set to value of <code>base_family</code> .
<code>arrow_fill</code>	Filling colour of the arrow head. Default set to <i>Oxford blue</i> .
<code>arrow_col</code>	Line and text colour of the arrow. Default set to value of <code>arrow_fill</code> .

Value

A list of specified theme parameters.

Author(s)

Ernest Guevarra and Greco Malijan

Examples

```
theme_oxford_forest()
```

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