Package 'unhcrthemes'

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Type Package

Title UNHCR 'ggplot2' Theme and Colour Palettes

Version 0.6.2

Description A 'ggplot2' theme and color palettes following
the United Nations High Commissioner for Refugees (UNHCR) Data Visualization Guidelines recommendations.

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Encoding UTF-8

URL https://github.com/unhcr-dataviz/unhcrthemes,

https://unhcr-dataviz.github.io/unhcrthemes/

BugReports https://github.com/unhcr-dataviz/unhcrthemes/issues

Depends R (>= 3.5)

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R **topics documented:**

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display_unhcr_all   *UNHCR color palettes viewer*

Description

Displays a set of the color palettes from UNHCR color

Usage

```
display_unhcr_all(n = NULL, type = "all")
```

Arguments

n	Number of different colors in the palette, minimum depending on the palette (2), maximum depending on the palette (5, 7 or 10)
type	Type of the palette, can be "sequential", "diverging", "qualitative" or "all"

Value

No return value, called for side effects

Examples

```
library(unhcrthemes)
display_unhcr_all()
display_unhcr_all(type = "diverging")
display_unhcr_all(type = c("diverging", "qualitative", "sequential"))
display_unhcr_all(n = 3, type = "sequential")
display_unhcr_all(n = 5, type = "sequential")
```

`display_unhcr_pal`	*UNHCR color palette viewer*

Description

Displays a color palette from UNHCR brand color

Usage

```
display_unhcr_pal(n = NULL, name)
```

Arguments

n   Number of different colors in the palette, minimum depending on palette (2),
            maximum depending on palette (5, 7 or 10)

name   A palette name

Value

No return value, called for side effects

Examples

```
display_unhcr_pal(3, "pal_unhcr")
```

`import_lato`	*Import Lato font*

Description

Import Lato font for use in R graphic devices

Usage

```
import_lato()
```

Value

No return value, called for side effects

| lato_installed | *Check if Lato font is installed in the system* |

Description

Verify if you have Lato font installed in your system

Usage

```
lato_installed()
```

Value

TRUE if Lato is installed in the system

| lato_registered | *Check if Lato font is registered through* extrafont |

Description

Verify if Lato is registered through extrafont

Usage

```
lato_registered()
```

Value

TRUE if Lato is registered

| scale_color_unhcr_c | *UNHCR ggplot2 color scales* |

Description

UNHCR ggplot2 color scales

Usage

```
scale_color_unhcr_c(
  ...,
  type = "sequential",
  palette = 1,
  direction = 1,
  na.value = "#E9E9E9",
  guide = "colourbar"
)

scale_color_unhcr_d(
  ...,
  type = "qualitative",
  palette = 1,
  direction = 1,
  nmax = NULL,
  order = NULL,
  na.value = "#E9E9E9"
)

scale_color_unhcr_b(
  ...,
  type = "qualitative",
  palette = 1,
  direction = 1,
  nmax = NULL,
  order = NULL,
  na.value = "#E9E9E9",
  guide = "coloursteps"
)

scale_colour_unhcr_c(
  ...,
  type = "sequential",
  palette = 1,
  direction = 1,
  na.value = "#E9E9E9",
  guide = "colourbar"
)

scale_colour_unhcr_d(
  ...,
  type = "qualitative",
  palette = 1,
  direction = 1,
  nmax = NULL,
  order = NULL,
  na.value = "#E9E9E9"
```

```
)

scale_colour_unhcr_b(
  ...,
  type = "qualitative",
  palette = 1,
  direction = 1,
  nmax = NULL,
  order = NULL,
  na.value = "#E9E9E9",
  guide = "coloursteps"
)

scale_fill_unhcr_c(
  ...,
  type = "sequential",
  palette = 1,
  direction = 1,
  na.value = "#E9E9E9",
  guide = "colourbar"
)

scale_fill_unhcr_d(
  ...,
  type = "qualitative",
  palette = 1,
  direction = 1,
  nmax = NULL,
  order = NULL,
  na.value = "#E9E9E9"
)

scale_fill_unhcr_b(
  ...,
  type = "qualitative",
  palette = 1,
  direction = 1,
  nmax = NULL,
  order = NULL,
  na.value = "#E9E9E9",
  guide = "coloursteps"
)
```

Arguments

`...`	Other arguments passed on to [discrete_scale()](#) or [continuous_scale()](#) to control name, limits, breaks, labels and so forth
`type`	One of \"sequential\", \"diverging\" or \"qualitative\"

palette	If a string, will use that named palette. If a number, will index into the list of palettes of appropriate type
direction	Sets the order of colors in the scale. If 1, the default, colors are as output by unhcr_pal(). If -1, the order of colors is reversed
na.value	Missing values will be replaced with this value.
guide	A function used to create a guide or its name. See guides() for more information.
nmax	Maximum number of different colors the palette should contain. If not provided, is calculated automatically from the data.
order	Numeric vector listing the order in which the colors should be used. Default is 1:nmax.

Value

A discrete, continuous or binned Scale object

Examples

```
library(ggplot2)

data(msleep, package = "ggplot2")

ggplot(msleep, aes(vore, sleep_total, fill = vore)) +
  geom_boxplot() +
  scale_fill_unhcr_d(palette = 1, direction = -1)
```

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theme_unhcr   *UNHCR ggplot2 theme*

Description

theme_unhcr provides a basic **UNHCR** theme to use in **ggplot2** commands.

Usage

```
theme_unhcr(
  font_family = if (lato_installed()) "Lato" else "sans",
  font_size = 12,
  plot_title_size = rel(1.35),
  plot_title_margin = font_size,
  subtitle_size = font_size,
  subtitle_margin = font_size * 1.5,
  strip_text_size = rel(0.9),
  strip_text_face = "bold",
  strip_text_just = 0,
```

```
    caption_size = rel(0.7),
    caption_margin = font_size,
    axis_text = TRUE,
    axis_text_size = rel(0.9),
    axis_title = TRUE,
    axis_title_size = rel(0.9),
    axis = FALSE,
    axis_ticks = FALSE,
    grid = "XY",
    legend = TRUE,
    legend_text_size = rel(0.9),
    legend_title = FALSE,
    legend_title_size = rel(0.9),
    plot_margin = margin(font_size, font_size, font_size, font_size),
    plot_background = "#ffffff",
    void = FALSE
)
```

Arguments

`font_family`	Base font family "Lato". You need to have "Lato" font installed on your device in order to use it.
`font_size`	Base font size in pt. Default to 12 pts.
`plot_title_size`	
	Plot title font size. Default to `font_size` * 1.35.
`plot_title_margin`	
	Plot title bottom margin. Default to `font_size`.
`subtitle_size`	Plot subtitle font size. Default to `font_size`.
`subtitle_margin`	
	Plot subtitle bottom margin. Default to `font_size` * 1.5.
`strip_text_size`	
	Facet label font size. Default to `font_size` * 0.9.
`strip_text_face`	
	Facet label font face. Default to "bold".
`strip_text_just`	
	Facet label justification. Default to 0.
`caption_size`	Caption font size. Default to `font_size` * 0.7.
`caption_margin`	Caption top margin. Default to `font_size`.
`axis_text`	Logical TRUE/FALSE or xy. Turn on and off axis label. Use x or y to have only the correspondent active. Default to TRUE.
`axis_text_size`	Axis label font size. Default to `font_size` * 0.9.
`axis_title`	Logical TRUE/FALSE or xy. Turn on and off axis title. Use x or y to have only the correspondent active. Default to TRUE.
`axis_title_size`	
	Axis title font size. Default to `font_size` * 0.9.

axis Logical TRUE/FALSE or xy. Turn on and off axis. Use x or y to have only the correspondent axis active. Don't forget to review the expand argument of the `scale_x_*`/`scale_y_*` to avoid spacing between the axis and the baseline of the plot. Default to FALSE.

axis_ticks Logical TRUE/FALSE or xy. Turn on and off axis ticks. Use x or y to have only the correspondent axis ticks active. Default to FALSE.

grid Logical TRUE/FALSE or a combination of X or x and Y or y. Turn on and off panel grids. Use XorYfo

legend Logical TRUE/FALSE. Turn on and off the legend. Default to TRUE.

legend_text_size
Legend key font size. Default to `font_size` * 0.9.

legend_title Logical TRUE/FALSE. Turn on and off the legend title. Default to FALSE.

legend_title_size
Legend title font size. Default to `font_size` * 0.9.

plot_margin Plot margin (specify with `ggplot2::margin()`). Default to `ggplot2::margin(font_size, font_size, font_size, font_size)`.

plot_background
Plot background. Put "transparent" for no background color. Default to "white".

void Logical TRUE/FALSE. If TRUE, all grid lines, ticks and axes are removed. Default to FALSE.

Value

A ggplot2 theme object, the theme style.

Examples

```
## Not run:

library(ggplot2)

data(mpg, package = "ggplot2")

ggplot(mpg, aes(displ, hwy)) +
  geom_point() +
  theme_unhcr()

## End(Not run)
```

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unhcr_pal *UNHCR color palettes*

Description

Creates a color palette from UNHCR branding

Usage

```
unhcr_pal(n = NULL, name, ...)
```

Arguments

n	Number of different colors in the palette, minimum depending on palette (2), maximum depending on palette (5, 7 or 10)
name	A palette name
...	Additional arguments for [grDevices::colorRampPalette](#)

Value

A character vector, the palette hex color codes.

Examples

```
unhcr_pal(3, "pal_unhcr")
unhcr_pal(3, "pal_blue")
unhcr_pal(5, "pal_navy")
unhcr_pal(12, "pal_red")
```

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