

# Package ‘unhcrthemes’

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**Type** Package

**Title** UNHCR 'ggplot2' Theme and Colour Palettes

**Version** 0.7.1

**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)

**Imports** ggplot2 (>= 3.5.0), scales, ggtext, ggrepel, systemfonts

**Suggests** rmarkdown, knitr, colorspace, ragg, refugees, tidyverse, treemapify, ggstream, dplyr

**RoxygenNote** 7.3.2

**VignetteBuilder** knitr

**Config/Needs/website** unhcr-dataviz/unhcrtemplate

**Config/testthat/edition** 3

**NeedsCompilation** no

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display_unhcr_all	<i>UNHCR color palettes viewer</i>
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### 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")
```

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display_unhcr_pal	<i>UNHCR color palette viewer</i>
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**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")
```

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import_lato	<i>Import Lato font</i>
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**Description**

Import Lato font for use in R graphic devices

**Usage**

```
import_lato()
```

**Value**

No return value, called for side effects

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lato_installed	<i>Check if Lato font is installed in the system</i>
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**Description**

Verify if you have Lato font installed in your system

**Usage**

```
lato_installed()
```

**Value**

TRUE if Lato is installed in the system

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scale_color_unhcr_c	<i>UNHCR ggplot2 color scales</i>
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**Description**

UNHCR ggplot2 color scales

**Usage**

```
scale_color_unhcr_c(
  ...,
  type = "sequential",
  palette = 1,
  direction = 1,
  na.value = "#E5E5E5",
  guide = "colourbar"
)
```

```
scale_color_unhcr_d(
  ...,
  type = "qualitative",
  palette = 1,
  direction = 1,
  nmax = NULL,
  order = NULL,
  na.value = "#E5E5E5"
)
```

```
scale_color_unhcr_b(
  ...,
```

```
    type = "qualitative",
    palette = 1,
    direction = 1,
    nmax = NULL,
    order = NULL,
    na.value = "#E5E5E5",
    guide = "coloursteps"
  )
```

```
scale_colour_unhcr_c(
  ...,
  type = "sequential",
  palette = 1,
  direction = 1,
  na.value = "#E5E5E5",
  guide = "colourbar"
)
```

```
scale_colour_unhcr_d(
  ...,
  type = "qualitative",
  palette = 1,
  direction = 1,
  nmax = NULL,
  order = NULL,
  na.value = "#E5E5E5"
)
```

```
scale_colour_unhcr_b(
  ...,
  type = "qualitative",
  palette = 1,
  direction = 1,
  nmax = NULL,
  order = NULL,
  na.value = "#E5E5E5",
  guide = "coloursteps"
)
```

```
scale_fill_unhcr_c(
  ...,
  type = "sequential",
  palette = 1,
  direction = 1,
  na.value = "#E5E5E5",
  guide = "colourbar"
)
```

```

scale_fill_unhcr_d(
  ...,
  type = "qualitative",
  palette = 1,
  direction = 1,
  nmax = NULL,
  order = NULL,
  na.value = "#E5E5E5"
)

scale_fill_unhcr_b(
  ...,
  type = "qualitative",
  palette = 1,
  direction = 1,
  nmax = NULL,
  order = NULL,
  na.value = "#E5E5E5",
  guide = "coloursteps"
)

```

### Arguments

...	Other arguments passed on to <a href="#">discrete_scale</a> or <a href="#">continuous_scale</a> to control name, limits, breaks, labels and so forth
type	One of <code>"sequential"</code> , <code>"diverging"</code> or <code>"qualitative"</code>
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 <a href="#">unhcr_pal()</a> . 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 <a href="#">guides()</a> 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 <code>1:nmax</code> .

### Value

A discrete, continuous or binned Scale object

### See Also

[gradient\\_n\\_pal](#)

## 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)
```

---

theme\_unhcr

*UNHCR ggplot2 theme*

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## 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 XorYfor
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 (see <a href="#">margin</a> ). 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.

**See Also**

[theme\\_minimal](#), [element\\_text](#), [ggtext::element\\_textbox\\_simple](#)

**Examples**

```
## Not run:

library(ggplot2)

data(mpg, package = "ggplot2")

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

## End(Not run)
```

---

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 <a href="#">grDevices::colorRampPalette</a>

**Value**

A character vector, the palette hex color codes.

**Examples**

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

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