Package ‘hrbrthemes’

March 4, 2024

Type Package
Title Additional Themes, Theme Components and Utilities for 'ggplot2'
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Date 2024-03-03
Maintainer Bob Rudis <bob@rud.is>
Description A compilation of extra 'ggplot2' themes, scales and utilities, including a spell check function for plot label fields and an overall emphasis on typography. A copy of the 'Google' font 'Roboto Condensed' is also included.
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Encoding UTF-8
Suggests testthat, dplyr, gridExtra, hunspell, stringi, gcookbook, clipr, vdiffr, svglite
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### flush_ticks

**Description**

A convenience function intended for basic, fixed-scale plots only (i.e. does not handle free scales in facets).

You need to pass in a ggplot2 object to this function. It can’t be +’d in a chain of geoms, co-ords, scales, themes, etc. It also builds the plot (but does not display it) so if the plt takes a while (i.e. has lots of data or transforms) this will also take a while.
Usage

```r
flush_ticks(gg, flush = "XY", plot = TRUE, cat = TRUE)
```

Arguments

- `gg`: ggplot2 plot object
- `flush`: either "X" or "Y" or "XY" to flush individual or both axes. Default: both.
- `plot`: if FALSE then the ggplot object will be returned `invisibly`
- `cat`: if TRUE then display `theme()` statements and copy them to the clipboard

Value

`ggplot2` object with `theme()` elements added

Note

Intended for basic, fixed-scale plots only (i.e. does not handle free scales in facets).

---

### `font_an`

**Arial Narrow font name R variable aliases**

**Description**

```r
font_an == "Arial Narrow"
```

**Usage**

```r
font_an
```

**Format**

- length 1 character vector
### font_es

**Econ Sans Condensed font name R variable aliases**

**Description**

```r
font_es == "EconSansCndLig"
font_es_bold == "EconSansCndBol"
font_es_light == "EconSansCndLig"
```

**Usage**

```r
font_es
font_es_bold
font_es_light
```

**Format**

- length 1 character vector
  - An object of class character of length 1.
  - An object of class character of length 1.

**Note**

- `font_es_bold` (a.k.a. "EconSansCndBol") is not available on Windows and will throw a warning if used in plots.
- `font_es_light` (a.k.a. "EconSansCndLig") is not available on Windows and will throw a warning if used in plots.

### font_gs

**Goldman Sans font name R variable aliases**

**Description**

```r
font_gs == "Goldman Sans Condensed"
```

**Usage**

```r
font_gs
```

**Format**

- length 1 character vector
font_inter_thin

<table>
<thead>
<tr>
<th>font_inter_thin</th>
<th>Inter font name R variable aliases</th>
</tr>
</thead>
</table>

**Description**

```
font_inter_thin == "Inter-Thin"
font_inter_thin_italic == "Inter-ThinItalic"
font_inter_medium == "Inter-Medium"
font_inter_medium_italic == "Inter-MediumItalic"
font_inter_semibold == "Inter-SemiBold"
font_inter_bold == "Inter-Bold"
font_inter_italic == "Inter-Italic"
```

**Usage**

```
font_inter_thin
font_inter_thin_italic
font_inter_medium
font_inter_medium_italic
font_inter_semibold
font_inter_bold
font_inter_italic
```

**Format**

- length 1 character vector
- length 1 character vector
- length 1 character vector
- length 1 character vector
- length 1 character vector
- length 1 character vector
- length 1 character vector
font_ps  

**PlexSans font name R variable aliases**

### Description

```r
default = "IBMPlexSans"
default_light = "IBMPlexSans-Light"
```

### Usage

```r
font_ps
font_ps_light
```

### Format

- length 1 character vector
- An object of class character of length 1.

### Note

`font_ps_light` (a.k.a. "IBMPlexSans-Light") is not available on Windows and will throw a warning if used in plots.

---

font_pub  

**Public Sans font name R variable aliases**

### Description

```r
default = "Public Sans"
default_bold = "Public Sans Bold"
default_light = "Public Sans Light"
default_thin = "Public Sans Thin"
```

### Usage

```r
font_pub
font_pub_bold
font_pub_light
font_pub_thin
```
**font_rc**

**Format**

length 1 character vector

An object of class character of length 1.

An object of class character of length 1.

An object of class character of length 1.

**Note**

font_pub_bold (a.k.a. "Public Sans Bold") is not available on Windows and will throw a warning if used in plots.

---

<table>
<thead>
<tr>
<th>font_rc</th>
<th>Roboto Condensed font name R variable aliases</th>
</tr>
</thead>
</table>

**Description**

font_rc == "Roboto Condensed"

font_fc_light == "Roboto Condensed Light"

**Usage**

font_rc

font_rc_light

**Format**

length 1 character vector

An object of class character of length 1.

**Note**

font_rc_light (a.k.a. "Roboto Condensed Light") is not available on Windows and will throw a warning if used in plots.
ft_cols

FT color palette

Description

FT color palette

Usage

ft_cols
ft_text_col

Format

An object of class list of length 9.
An object of class character of length 1.

Note

don’t forget you can use scales::alpha() with these colors

ft_geom_defaults

Change geom defaults from black to custom lights for the FT theme

Description

Change geom defaults from black to custom lights for the FT theme

Usage

ft_geom_defaults()
ft_pal

A bright qualitative color palette

Description

A bright qualitative color palette

Usage

ft_pal()

Examples

library(scales)
scales::show_col(ft_pal()(8))

---

gg_check

Spell check ggplot2 plot labels

Description

Due to the way ggplot2 objects are created, this has to be used in a standalone context.

Usage

gg_check(gg, dict, ignore)

Arguments

gg ggplot2 object
dict a dictionary object or string which can be passed to hunspell::dictionary. De-

Details

Current functionality only looks for misspelled words in the labels of ggplot2 objects. When mis-

Value

the object that was passed in
import_econ_sans

Examples

library(ggplot2)

df <- data.frame(x=c(20, 25, 30), y=c(4, 4, 4), txt=c("One", "Two", "Three"))

# not piping
ggplot(mtcars, aes(mpg, wt)) +
  geom_point() +
  labs(x="This is some txt", y="This is more text",
       title="Thisy is a titlle",
       subtitle="This is a subtitley",
       caption="This is a captien") -> gg

gg_check(gg)

hrbrthemes-exports hrbrthemes exported operators

Description

The following functions are imported and then re-exported from the hrbrthemes package to enable
use of the magrittr pipe operator with no additional library calls

import_econ_sans Import Roboto Condensed font for use in charts

Description

Roboto Condensed is a trademark of Google.

Usage

import_econ_sans()

Details

There is an option hrbrthemes::loadfonts which – if set to TRUE – will call extrafont::loadfonts()
to register non-core fonts with R PDF & PostScript devices. If you are running under Windows, the
package calls the same function to register non-core fonts with the Windows graphics device.
import_goldman_sans  Import Goldman Sans font for use in charts

Description

Goldman Sans is a trademark of Goldman Sachs and distributed under the Goldman Sachs Restricted Font License

Usage

import_goldman_sans()

Details

There is an option hrbrthemes::loadfonts which – if set to TRUE – will call extrafont::loadfonts() to register non-core fonts with R PDF & PostScript devices. If you are running under Windows, the package calls the same function to register non-core fonts with the Windows graphics device.

import_inter  Import Inter font for use in charts

Description

Inter is Copyright (c) 2016-2024 The Inter Project Authors

Usage

import_inter()

Details

There is an option hrbrthemes::loadfonts which – if set to TRUE – will call extrafont::loadfonts() to register non-core fonts with R PDF & PostScript devices. If you are running under Windows, the package calls the same function to register non-core fonts with the Windows graphics device.
import_plex_sans  
*Import IBM Plex Sans font for use in charts*

**Description**

IBM Plex Sans is a trademark of IBM and distributed under the SIL Open Font License, Version 1.1.

**Usage**

```r
import_plex_sans()
```

**Details**

There is an option `hrbrthemes.loadfonts` which – if set to `TRUE` – will call `extrafont::loadfonts()` to register non-core fonts with R PDF & PostScript devices. If you are running under Windows, the package calls the same function to register non-core fonts with the Windows graphics device.

import_public_sans  
*Import Public Sans font for use in charts*

**Description**

Public Sans is Copyright 2015 Impallari Type and licensed under the SIL Open Font License, Version 1.1

**Usage**

```r
import_public_sans()
```

**Details**

There is an option `hrbrthemes.loadfonts` which – if set to `TRUE` – will call `extrafont::loadfonts()` to register non-core fonts with R PDF & PostScript devices. If you are running under Windows, the package calls the same function to register non-core fonts with the Windows graphics device.
**importRobotoCondensed**

*ImportRobotoCondensed font for use in charts*

**Description**

Roboto Condensed is a trademark of Google.

**Usage**

```r
importRobotoCondensed()
```

**Details**

There is an option `hrbrthemes.loadfonts` which – if set to `TRUE` – will call `extrafont::loadfonts()` to register non-core fonts with R PDF & PostScript devices. If you are running under Windows, the package calls the same function to register non-core fonts with the Windows graphics device.

**Note**

This will take care of ensuring PDF/PostScript usage. The location of the font directory is displayed after the base import is complete. It is highly recommended that you install them on your system the same way you would any other font you wish to use in other programs.

**ipsum_pal**

*A muted, qualitative color palette*

**Description**

A muted, qualitative color palette

**Usage**

```r
ipsum_pal()
```

**Examples**

```r
library(scales)
scales::show_col(ipsum_pal()(9))
```
modern_geom_defaults  
Change geom defaults from black to white for the modern theme

Description
Change geom defaults from black to white for the modern theme

Usage
modern_geom_defaults()

scale_colour_ft  
Discrete color & fill scales based on the FT palette

Description
See ft_pal().

Usage
scale_colour_ft(...)  
scale_color_ft(...)  
scale_fill_ft(...)

Arguments
...

Arguments passed on to ggplot2::discrete_scale

aesthetics  The names of the aesthetics that this scale works with.

scale_name  [Deprecated] The name of the scale that should be used for error
messages associated with this scale.

palette  A palette function that when called with a single integer argument (the
number of levels in the scale) returns the values that they should take (e.g.,
scales::pal_hue()).

name  The name of the scale. Used as the axis or legend title. If waiver(), the
default, the name of the scale is taken from the first mapping used for that
aesthetic. If NULL, the legend title will be omitted.

breaks  One of:
  • NULL for no breaks
  • waiver() for the default breaks (the scale limits)
  • A character vector of breaks
  • A function that takes the limits as input and returns breaks as output.
    Also accepts rlang lambda function notation.
labels One of:
  • NULL for no labels
  • waiver() for the default labels computed by the transformation object
  • A character vector giving labels (must be same length as breaks)
  • An expression vector (must be the same length as breaks). See ?plotmath for details.
  • A function that takes the breaks as input and returns labels as output. Also accepts rlang lambda function notation.

limits One of:
  • NULL to use the default scale values
  • A character vector that defines possible values of the scale and their order
  • A function that accepts the existing (automatic) values and returns new ones. Also accepts rlang lambda function notation.

na.translate Unlike continuous scales, discrete scales can easily show missing values, and do so by default. If you want to remove missing values from a discrete scale, specify na.translate = FALSE.

na.value If na.translate = TRUE, what aesthetic value should the missing values be displayed as? Does not apply to position scales where NA is always placed at the far right.

drop Should unused factor levels be omitted from the scale? The default, TRUE, uses the levels that appear in the data; FALSE uses all the levels in the factor.

guide A function used to create a guide or its name. See guides() for more information.

call The call used to construct the scale for reporting messages.
super The super class to use for the constructed scale

---

**scale_colour_ipsum**  
*Discrete color & fill scales based on the ipsum palette*

**Description**

See ipsum_pal().

**Usage**

scale_colour_ipsum(...)  
scale_color_ipsum(...)  
scale_fill_ipsum(...)
Arguments

Arguments passed on to `ggplot2::discrete_scale`

aesthetics The names of the aesthetics that this scale works with.

scale_name [Deprecated] The name of the scale that should be used for error messages associated with this scale.

palette A palette function that when called with a single integer argument (the number of levels in the scale) returns the values that they should take (e.g., `scales::pal_hue()`).

name The name of the scale. Used as the axis or legend title. If waiver(), the default, the name of the scale is taken from the first mapping used for that aesthetic. If NULL, the legend title will be omitted.

breaks One of:
- NULL for no breaks
- waiver() for the default breaks (the scale limits)
- A character vector of breaks
- A function that takes the limits as input and returns breaks as output. Also accepts rlang lambda function notation.

labels One of:
- NULL for no labels
- waiver() for the default labels computed by the transformation object
- A character vector giving labels (must be same length as breaks)
- An expression vector (must be the same length as breaks). See ?plotmath for details.
- A function that takes the breaks as input and returns labels as output. Also accepts rlang lambda function notation.

limits One of:
- NULL to use the default scale values
- A character vector that defines possible values of the scale and their order
- A function that accepts the existing (automatic) values and returns new ones. Also accepts rlang lambda function notation.

na.translate Unlike continuous scales, discrete scales can easily show missing values, and do so by default. If you want to remove missing values from a discrete scale, specify `na.translate = FALSE`.

na.value If `na.translate = TRUE`, what aesthetic value should the missing values be displayed as? Does not apply to position scales where NA is always placed at the far right.

drop Should unused factor levels be omitted from the scale? The default, TRUE, uses the levels that appear in the data; FALSE uses all the levels in the factor.

guide A function used to create a guide or its name. See `guides()` for more information.

call The call used to construct the scale for reporting messages.

super The super class to use for the constructed scale.
**scale_x_percent**

X & Y scales with opinionated pre-sets for percent & comma label formats

**Description**

The `_comma` ones set comma format for axis text and `expand=c(0,0)` (you need to set limits).

**Usage**

scale_x_percent(
    name = waiver(),
    breaks = waiver(),
    minor_breaks = waiver(),
    guide = waiver(),
    n.breaks = NULL,
    labels,
    limits = NULL,
    expand = c(0.01, 0),
    oob = censor,
    na.value = NA_real_,
    trans = "identity",
    transform = "identity",
    position = "bottom",
    sec.axis = waiver(),
    accuracy = 1,
    scale = 100,
    prefix = "",
    suffix = "\%",
    big.mark = " ",
    decimal.mark = ".",
    trim = TRUE,
    ...
)

scale_y_percent(
    name = waiver(),
    breaks = waiver(),
    minor_breaks = waiver(),
    guide = waiver(),
    n.breaks = NULL,
    labels,
    limits = NULL,
    expand = c(0.01, 0),
    oob = censor,
    na.value = NA_real_,
    trans = "identity",
    transform = "identity",
    position = "bottom",
    sec.axis = waiver(),
    accuracy = 1,
    scale = 100,
    prefix = "",
    suffix = "\%",
    big.mark = " ",
    decimal.mark = ".",
    trim = TRUE,
    ...
transform = "identity",
position = "left",
sec.axis = waiver(),
accuracy = 1,
scale = 100,
prefix = ""

scale_x_percent(
    name = waiver(),
    breaks = waiver(),
    minor_breaks = waiver(),
    guide = waiver(),
    n.breaks = NULL,
    labels,
    limits = NULL,
    expand = c(0.01, 0),
    oob = censor,
    na.value = NA_real_,
    trans = "identity",
    transform = "identity",
    position = "bottom",
    sec.axis = waiver(),
    accuracy = 1,
    scale = 1,
    prefix = ""

scale_y_comma(
    name = waiver(),
    breaks = waiver(),
    minor_breaks = waiver(),
    guide = waiver(),
    n.breaks = NULL,
    labels,
    limits = NULL,
    expand = c(0.01, 0),
    oob = censor,
scale_x_percent

```
na.value = NA_real_,
trans = "identity",
transform = "identity",
position = "left",
sec.axis = waiver(),
accuracy = 1,
scale = 1,
prefix = "",
suffix = "",
big.mark = ",",
decimal.mark = ".",
trim = TRUE,
```

Arguments

name

The name of the scale. Used as axis or legend title. If `waiver()`, the default, the name of the scale is taken from the first mapping used for that aesthetic. If `NULL`, the legend title will be omitted.

breaks

One of:

- `NULL` for no breaks
- `waiver()` for the default breaks computed by the transformation object
- A numeric vector of positions
- A function that takes the limits as input and returns breaks as output

minor_breaks

One of:

- `NULL` for no minor breaks
- `waiver()` for the default breaks (one minor break between each major break)
- A numeric vector of positions
- A function that given the limits returns a vector of minor breaks.

guide

guide A function used to create a guide or its name. See `guides()` for more information.

n.breaks

An integer guiding the number of major breaks. The algorithm may choose a slightly different number to ensure nice break labels. Will only have an effect if `breaks = waiver()`. Use `NULL` to use the default number of breaks given by the transformation.

labels

Specifying overrides the default format (i.e. you really don’t want to do that). `NULL` means no labels.

limits

A numeric vector of length two providing limits of the scale. Use `NA` to refer to the existing minimum or maximum.

expand

same as in ggplot2

oob

Function that handles limits outside of the scale limits (out of bounds). The default replaces out of bounds values with NA.
theme_ft_rc

na.value If na.translate = TRUE, what value aesthetic value should missing be displayed as? Does not apply to position scales where NA is always placed at the far right.

trans (DEPRECATED) Either the name of a transformation object, or the object itself. Built-in transformations include "asn", "atanh", "boxcox", "exp", "identity", "log", "log10", "log1p", "logit", "probability", "probit", "reciprocal", "reverse" and "sqrt".

transform Either the name of a transformation object, or the object itself. Built-in transformations include "asn", "atanh", "boxcox", "exp", "identity", "log", "log10", "log1p", "log2", "logit", "probability", "probit", "reciprocal", "reverse" and "sqrt".

position The position of the axis. "left" or "right" for vertical scales, "top" or "bottom" for horizontal scales

sec.axis specify a secondary axis

accuracy, scale, prefix, suffix, big.mark, decimal.mark, trim See [scales::comma_format()] or [scales::percent_format()]

... passed on to [scales::comma_format()] or [scales::percent_format()]

Details

The _percent ones set percent format for axis text and expand=c(0, 0) (you need to set limits).

---

theme_ft_rc A precise & pristine ggplot2 theme with opinionated defaults and an emphasis on typography

---

Description

You should import_roboto_condensed() first and also install the fonts on your system before trying to use this theme.

Usage

theme_ft_rc(
  base_family = "Roboto Condensed",
  base_size = 11.5,
  plot_title_family = base_family,
  plot_title_size = 18,
  plot_title_face = "bold",
  plot_title_margin = 10,
  subtitle_family = if (.Platform$OS.type == "windows") "Roboto Condensed" else "Roboto Condensed Light",
  subtitle_size = 13,
  subtitle_face = "plain",
  subtitle_margin = 15,
  strip_text_family = base_family,
theme_ft_rc

strip_text_size = 12,
strip_text_face = "plain",
caption_family = if (.Platform$OS.type == "windows") "Roboto Condensed" else
     "Roboto Condensed Light",
caption_size = 9,
caption_face = "plain",
caption_margin = 10,
axis_text_size = base_size,
axis_title_family = base_family,
axis_title_size = 9,
axis_title_face = "plain",
axis_title_just = "rt",
plot_margin = margin(30, 30, 30, 30),
grid = TRUE,
axis = FALSE,
ticks = FALSE
)

theme_modern_rc(
  base_family = "Roboto Condensed",
  base_size = 11.5,
  plot_title_family = base_family,
  plot_title_size = 18,
  plot_title_face = "bold",
  plot_title_margin = 10,
  subtitle_family = if (.Platform$OS.type == "windows") "Roboto Condensed" else
       "Roboto Condensed Light",
  subtitle_size = 13,
  subtitle_face = "plain",
  subtitle_margin = 15,
  strip_text_family = base_family,
  strip_text_size = 12,
  strip_text_face = "plain",
caption_family = if (.Platform$OS.type == "windows") "Roboto Condensed" else
       "Roboto Condensed Light",
caption_size = 9,
caption_face = "plain",
caption_margin = 10,
axis_text_size = base_size,
axis_title_family = base_family,
axis_title_size = 9,
axis_title_face = "plain",
axis_title_just = "rt",
plot_margin = margin(30, 30, 30, 30),
grid = TRUE,
axis = FALSE,
ticks = FALSE
)
theme_ipsum_rc(
  base_family = "Roboto Condensed",
  base_size = 11.5,
  plot_title_family = base_family,
  plot_title_size = 18,
  plot_title_face = "bold",
  plot_title_margin = 10,
  subtitle_family = if (.Platform$OS.type == "windows") "Roboto Condensed Light" else
    "Roboto Condensed",
  subtitle_size = 13,
  subtitle_face = "plain",
  subtitle_margin = 15,
  strip_text_family = base_family,
  strip_text_size = 12,
  strip_text_face = "plain",
  caption_family = if (.Platform$OS.type == "windows") "Roboto Condensed Light" else
    "Roboto Condensed",
  caption_size = 9,
  caption_face = "plain",
  caption_margin = 10,
  axis_text_size = base_size,
  axis_title_family = base_family,
  axis_title_size = 9,
  axis_title_face = "plain",
  axis_title_just = "rt",
  plot_margin = margin(30, 30, 30, 30),
  panel_spacing = grid::unit(2, "lines"),
  grid_col = "cccccc",
  grid = TRUE,
  axis_col = "cccccc",
  axis = FALSE,
  ticks = FALSE
)

Arguments

base_family, base_size
  base font family and size
plot_title_family, plot_title_face, plot_title_size, plot_title_margin
  plot title family, face, size and margin
subtitle_family, subtitle_face, subtitle_size
  plot subtitle family, face and size
subtitle_margin
  plot subtitle margin bottom (single numeric value)
strip_text_family, strip_text_face, strip_text_size
  facet label font family, face and size
theme_ft_rc

caption_family, caption_face, caption_size, caption_margin
plot caption family, face, size and margin
axis_text_size  font size of axis text
axis_title_family, axis_title_face, axis_title_size
axis title font family, face and size
axis_title_just      axis title font justification one of [blmcrt]
plot_margin         plot margin (specify with ggplot2::margin)
grid               panel grid (TRUE, FALSE, or a combination of X, x, Y, y)
axis               add x or y axes? TRUE, FALSE, "xy"
ticks              ticks if TRUE add ticks
panel_spacing      panel spacing (use unit())
grid_col           grid color
axis_col           axis color

Details
There is an option hrbrthemes.loadfonts which – if set to TRUE – will call extrafont::loadfonts() to register non-core fonts with R PDF & PostScript devices. If you are running under Windows, the package calls the same function to register non-core fonts with the Windows graphics device.

Why Roboto Condensed?
It’s free, has tolerable kerning pairs and multiple weights. It’s also different than Arial Narrow and the fonts most folks use in ggplot2 charts.

Examples

```r
## Not run:
library(ggplot2)
library(dplyr)

# seminal scatterplot
ggplot(mtcars, aes(mpg, wt)) +
  geom_point() +
  labs(x="Fuel efficiency (mpg)", y="Weight (tons)",
       title="Seminal ggplot2 scatterplot example",
       subtitle="A plot that is only useful for demonstration purposes",
       caption="Brought to you by the letter 'g'") +
  theme_ipsum_rc()

# seminal bar chart

# note: make this font_rc on Windows
update_geom_font_defaults(family=font_rc_light)

count(mpg, class) %>%
  ggplot(aes(class, n)) +
  geom_bar() +
```
theme_ipsum

A precise & pristine ggplot2 theme with opinionated defaults and an emphasis on typography

Description

Also has a "dark" / "modern" version for the new RStudio theme

Usage

theme_ipsum(
  base_family = "Arial Narrow",
  base_size = 11.5,
  plot_title_family = base_family,
  plot_title_size = 18,
  plot_title_face = "bold",
  plot_title_margin = 10,
  subtitle_family = base_family,
  subtitle_size = 12,
  subtitle_face = "plain",
  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_margin = 10,
  axis_text_size = base_size,
  axis_title_family = subtitle_family,
  axis_title_size = 9,
  axis_title_face = "plain",
  axis_title_just = "rt",
  plot_margin = margin(30, 30, 30, 30),
  grid_col = "#cccccc",
  grid = TRUE,
  axis_col = "#cccccc"
theme_ipsum

```r
axis = FALSE,
ticks = FALSE
)
```

Arguments

- `base_family, base_size`
  - base font family and size
- `plot_title_family, plot_title_face, plot_title_size, plot_title_margin`
  - plot title family, face, size and margin
- `subtitle_family, subtitle_face, subtitle_size`
  - plot subtitle family, face and size
- `subtitle_margin`
  - plot subtitle margin bottom (single numeric value)
- `strip_text_family, strip_text_face, strip_text_size`
  - facet label font family, face and size
- `caption_family, caption_face, caption_size, caption_margin`
  - plot caption family, face, size and margin
- `axis_text_size`
  - font size of axis text
- `axis_title_family, axis_title_face, axis_title_size`
  - axis title font family, face and size
- `axis_title_just`
  - axis title font justification, one of [blmcrt]
- `plot_margin`
  - plot margin (specify with `ggplot2::margin()`)
- `grid_col, axis_col`
  - grid & axis colors; both default to #cccccc
- `grid`
  - panel grid (TRUE, FALSE, or a combination of X, x, Y, y)
- `axis`
  - add x or y axes? TRUE, FALSE, "xy"
- `ticks`
  - ticks if TRUE add ticks

Why Arial Narrow?

First and foremost, Arial Narrow is generally installed by default or readily available on any modern system, so it's "free"-ish; plus, it is a condensed font with solid default kerning pairs and geometric numbers.

Building upon theme_ipsum

The function is setup in such a way that you can customize your own one by just wrapping the call and changing the parameters. See source for examples.

Gotchas

There are distinctions between font names and various devices. Names that work for display graphics devices and bitmap ones such as png may not work well for PostScript or PDF ones. You may need two versions of a font-based theme function for them to work in a particular situation. This
situation usually only arises when using a newer font with many weights but somewhat irregular internal font name patterns.

There is an option \texttt{hrbrthemes.loadfonts} which – if set to \texttt{TRUE} – will call \texttt{extrafont::loadfonts()} to register non-core fonts with R PDF & PostScript devices. If you are running under Windows, the package calls the same function to register non-core fonts with the Windows graphics device.

Examples

```r
## Not run:
library(ggplot2)
library(dplyr)

# seminal scatterplot
ggplot(mtcars, aes(mpg, wt)) +
  geom_point() +
  labs(x="Fuel efficiency (mpg)", y="Weight (tons)",
       title="Seminal ggplot2 scatterplot example",
       subtitle="A plot that is only useful for demonstration purposes",
       caption="Brought to you by the letter 'g'") +
  theme_ipsum()

# seminal bar chart
update_geom_font_defaults()

count(mpg, class) %>%
  ggplot(aes(class, n)) +
  geom_col() +
  geom_text(aes(label=n), nudge_y=3) +
  labs(x="Fuel efficiency (mpg)", y="Weight (tons)",
       title="Seminal ggplot2 bar chart example",
       subtitle="A plot that is only useful for demonstration purposes",
       caption="Brought to you by the letter 'g'") +
  theme_ipsum(grid="Y") +
  theme(axis.text.y=element_blank())

## End(Not run)
```

The \texttt{theme_ipsum_es} theme is a precise & pristine \texttt{ggplot2} theme with opinionated defaults and an emphasis on typography.

Description

You should \texttt{import_econ_sans()} first and install the fonts on your system before trying to use this theme.
theme_ipsum_es

Usage

theme_ipsum_es(
  base_family = "EconSansCndReg",
  base_size = 11.5,
  plot_title_family = "EconSansCndBol",
  plot_title_size = 18,
  plot_title_face = "bold",
  plot_title_margin = 10,
  subtitle_family = if (.Platform$OS.type == "windows") "EconSansCndLig" else "EconSansCndLig",
  subtitle_size = 13,
  subtitle_face = "plain",
  subtitle_margin = 15,
  strip_text_family = base_family,
  strip_text_size = 12,
  strip_text_face = "plain",
  caption_family = if (.Platform$OS.type == "windows") "EconSansCndLig" else "EconSansCndLig",
  caption_size = 9,
  caption_face = "plain",
  caption_margin = 10,
  axis_text_size = base_size,
  axis_title_family = base_family,
  axis_title_size = 9,
  axis_title_face = "plain",
  axis_title_just = "rt",
  plot_margin = margin(30, 30, 30, 30),
  panel_spacing = grid::unit(2, "lines"),
  grid_col = "#cccccc",
  grid = TRUE,
  axis_col = "#cccccc",
  axis = FALSE,
  ticks = FALSE
)

Arguments

  base_family, base_size
      base font family and size
  plot_title_family, plot_title_face, plot_title_size, plot_title_margin
      plot title family, face, size and margin
  subtitle_family, subtitle_face, subtitle_size
      plot subtitle family, face and size
  subtitle_margin
      plot subtitle margin bottom (single numeric value)
  strip_text_family, strip_text_face, strip_text_size
      facet label font family, face and size
caption_family, caption_face, caption_size, caption_margin
  plot caption family, face, size and margin
axis_text_size  font size of axis text
axis_title_family, axis_title_face, axis_title_size
  axis title font family, face and size
axis_title_just
  axis title font justification one of [blmcrt]
plot_margin  plot margin (specify with \texttt{ggplot2::margin})
panel_spacing  panel spacing (use \texttt{unit()})
grid_col  grid color
grid  panel grid (TRUE, FALSE, or a combination of X, x, Y, y)
axis_col  axis color
axis  add x or y axes? TRUE, FALSE, "xy"
ticks  ticks if TRUE add ticks

Details

There is an option \texttt{hrbrthemes.loadfonts} which – if set to TRUE – will call \texttt{extrafont::loadfonts()} to register non-core fonts with R PDF & PostScript devices. If you are running under Windows, the package calls the same function to register non-core fonts with the Windows graphics device.

Why Econ Sans Condensed?

It’s free, has tolerable kerning pairs and multiple weights. It’s also different than Arial Narrow and the fonts most folks use in ggplot2 charts.

Examples

```r
# Not run:
library(ggplot2)
library(dplyr)

# seminal scatterplot
ggplot(mtcars, aes(mpg, wt)) +
  geom_point() +
  labs(x="Fuel efficiency (mpg)", y="Weight (tons)",
       title="Seminal ggplot2 scatterplot example",
       subtitle="A plot that is only useful for demonstration purposes",
       caption="Brought to you by the letter 'g'") +
  theme_ipsum_es()

# seminal bar chart

data(count)

# note: may need to make this font_es on Windows
update_geom_font_defaults(family=font_es_light)

count(mpg, class) %>%
  ggplot(aes(class, n)) +
  geom_bar() +
```
theme_ipsum_gs

```
geom_col() +
geom_text(aes(label=n), nudge_y=3) +
labs(x="Fuel efficiency (mpg)", y="Weight (tons)",
title="Seminal ggplot2 bar chart example",
subtitle="A plot that is only useful for demonstration purposes",
caption="Brought to you by the letter 'g'") +
theme_ipsum_es(grid="y") +
theme(axis.text.y=element_blank())

## End(Not run)
```

theme_ipsum_gs

A precise & pristine ggplot2 theme with opinionated defaults and an emphasis on typography

### Description

You should import_goldman_sans() first and install the fonts on your system before trying to use this theme.

### Usage

```
theme_ipsum_gs(
  base_family = "Goldman Sans Condensed",
  base_size = 11.5,
  plot_title_family = "Goldman Sans Condensed",
  plot_title_size = 18,
  plot_title_face = "bold",
  plot_title_margin = 10,
  subtitle_family = if (.Platform$OS.type == "windows") "Goldman Sans Condensed" else "Goldman Sans Condensed",
  subtitle_size = 13,
  subtitle_face = "plain",
  subtitle_margin = 15,
  strip_text_family = "Goldman Sans Condensed",
  strip_text_size = 12,
  strip_text_face = "bold",
  caption_family = if (.Platform$OS.type == "windows") "Goldman Sans Condensed" else "Goldman Sans Condensed",
  caption_size = 9,
  caption_face = "plain",
  caption_margin = 10,
  axis_text_size = 9,
  axis_title_family = base_family,
  axis_title_size = 9,
  axis_title_face = "plain",
  axis_title_just = "rt",
  plot_margin = margin(30, 30, 30, 30),
)```
grid_col = "#cccccc",
grid = TRUE,
axis_col = "#cccccc",
axis = FALSE,
ticks = FALSE
)

Arguments

base_family, base_size
  base font family and size
plot_title_family, plot_title_face, plot_title_size, plot_title_margin
  plot title family, face, size and margin
subtitle_family, subtitle_face, subtitle_size
  plot subtitle family, face and size
subtitle_margin
  plot subtitle margin bottom (single numeric value)
strip_text_family, strip_text_face, strip_text_size
  facet label font family, face and size
caption_family, caption_face, caption_size, caption_margin
  plot caption family, face, size and margin
axis_text_size
  font size of axis text
axis_title_family, axis_title_face, axis_title_size
  axis title font family, face and size
axis_title_just
  axis title font justification one of [bmlcrt]
plot_margin
  plot margin (specify with ggplot2::margin)
grid_col
  grid color
grid
  panel grid (TRUE, FALSE, or a combination of X, x, Y, y)
axis_col
  axis color
axis
  add x or y axes? TRUE, FALSE, "xy"
ticks
  ticks if TRUE add ticks

Details

There is an option hrbrthemes.loadfonts which – if set to TRUE – will call extrafont::loadfonts() to register non-core fonts with R PDF & PostScript devices. If you are running under Windows, the package calls the same function to register non-core fonts with the Windows graphics device.

Why Goldman Sans?

Google "goldman sans design system"
Examples

```r
## Not run:
library(ggplot2)
library(dplyr)

# seminal scatterplot
ggplot(mtcars, aes(mpg, wt)) +
  geom_point() +
  labs(x="Fuel efficiency (mpg)", y="Weight (tons)",
       title="Seminal ggplot2 scatterplot example",
       subtitle="A plot that is only useful for demonstration purposes",
       caption="Brought to you by the letter 'g'") +
  theme_ipsum_gs()

# seminal bar chart
update_geom_font_defaults(family=font_gs_light)

count(mpg, class) %>%
  ggplot(aes(class, n)) +
  geom_col() +
  geom_text(aes(label=n), nudge_y=3) +
  labs(x="Fuel efficiency (mpg)", y="Weight (tons)",
       title="Seminal ggplot2 bar chart example",
       subtitle="A plot that is only useful for demonstration purposes",
       caption="Brought to you by the letter 'g'") +
  theme_ipsum_gs(grid="Y") +
  theme(axis.text.y=element_blank())

## End(Not run)
```

---

**theme_ipsum_inter**  
A precise & pristine *ggplot2* theme with opinionated defaults and an emphasis on typography

Description

You should *import_inter()* first and install the fonts on your system before trying to use this theme.

Usage

```r
theme_ipsum_inter(
  base_family = "Inter-Medium",
  base_size = 10,
  plot_title_family = "Inter-Bold",
  plot_title_size = 16,
  plot_title_face = "bold",
  plot_title_margin = 8,
)```
subtitle_family = "Inter-Light",
subtitle_size = 12,
subtitle_face = "plain",
subtitle_margin = 13,
strip_text_family = "Inter-SemiBold",
strip_text_size = 12,
strip_text_face = "bold",
caption_family = "Inter-Thin",
caption_size = 9,
caption_face = "plain",
caption_margin = 10,
axis_text_family = "Inter-Light",
axis_text_face = "plain",
axis_text_size = 9,
axis_title_family = base_family,
axis_title_size = 9,
axis_title_face = "plain",
axis_title_just = "rt",
plot_margin = margin(30, 30, 30, 30),
grid_col = "#cccccc",
grid = TRUE,
axis_col = "#cccccc",
axis = FALSE,
ticks = FALSE
)

Arguments

base_family, base_size
base font family and size

plot_title_family, plot_title_face, plot_title_size, plot_title_margin
plot title family, face, size and margin

subtitle_family, subtitle_face, subtitle_size
plot subtitle family, face and size

subtitle_margin
plot subtitle margin bottom (single numeric value)

strip_text_family, strip_text_face, strip_text_size
facet label font family, face and size

caption_family, caption_face, caption_size, caption_margin
plot caption family, face, size and margin

axis_text_family, axis_text_face,
axis text font family and face

axis_text_size
font size of axis text

axis_title_family, axis_title_face, axis_title_size
axis title font family, face and size

axis_title_just
axis title font justification one of [blmcrt]
plot_margin    plot margin (specify with ggplot2::margin)
grid_col      grid color
grid          panel grid (TRUE, FALSE, or a combination of X, x, Y, y)
axis_col      axis color
axis          add x or y axes? TRUE, FALSE, "xy"
ticks         ticks if TRUE add ticks

Details

There is an option hrbrthemes::loadfonts which – if set to TRUE – will call extrafont::loadfonts() to register non-core fonts with R PDF & PostScript devices. If you are running under Windows, the package calls the same function to register non-core fonts with the Windows graphics device.

Why Inter?

Google "inter font".

Examples

```r
## Not run:
library(ggplot2)
library(dplyr)

# seminal scatterplot
ggplot(mtcars, aes(mpg, wt)) +
  geom_point() +
  labs(x="Fuel efficiency (mpg)", y="Weight (tons)",
       title="Seminal ggplot2 scatterplot example",
       subtitle="A plot that is only useful for demonstration purposes",
       caption="Brought to you by the letter 'g'") +
  theme_ipsum_inter()

# seminal bar chart
update_geom_font_defaults(family=font_inter_medium)

count(mpg, class) %>%
  ggplot(aes(class, n)) +
  geom_col() +
  geom_text(aes(label=n), nudge_y=3) +
  labs(x="Fuel efficiency (mpg)", y="Weight (tons)",
       title="Seminal ggplot2 bar chart example",
       subtitle="A plot that is only useful for demonstration purposes",
       caption="Brought to you by the letter 'g'") +
  theme_ipsum_inter(grid="Y") +
  theme(axis.text.y=element_blank())

## End(Not run)
```
theme_ipsum_ps

A precise & pristine ggplot2 theme with opinionated defaults and an emphasis on typography

Description

You should import_plex_sans() first and install the fonts on your system before trying to use this theme.

Usage

```r
theme_ipsum_ps(
  base_family = "IBMPlexSans",
  base_size = 11.5,
  plot_title_family = "IBMPlexSans-Bold",
  plot_title_size = 18,
  plot_title_face = "plain",
  plot_title_margin = 10,
  subtitle_family = if (.Platform$OS.type == "windows") "IBMPlexSans" else "IBMPlexSans-Light",
  subtitle_size = 13,
  subtitle_face = "plain",
  subtitle_margin = 15,
  strip_text_family = "IBMPlexSans-Medium",
  strip_text_size = 12,
  strip_text_face = "plain",
  caption_family = if (.Platform$OS.type == "windows") "IBMPlexSans" else "IBMPlexSans-Thin",
  caption_size = 9,
  caption_face = "plain",
  caption_margin = 10,
  axis_text_size = 9,
  axis_title_family = base_family,
  axis_title_size = 9,
  axis_title_face = "plain",
  axis_title_just = "rt",
  plot_margin = margin(30, 30, 30, 30),
  grid_col = "#cccccc",
  grid = TRUE,
  axis_col = "#cccccc",
  axis = FALSE,
  ticks = FALSE
)
```

Arguments

- `base_family`, `base_size`  
  base font family and size
theme_ipsum_ps

plot_title_family, plot_title_face, plot_title_size, plot_title_margin
    plot title family, face, size and margin
subtitle_family, subtitle_face, subtitle_size
    plot subtitle family, face and size
subtitle_margin
    plot subtitle margin bottom (single numeric value)
strip_text_family, strip_text_face, strip_text_size
    facet label font family, face and size
caption_family, caption_face, caption_size, caption_margin
    plot caption family, face, size and margin
axis_text_size
    font size of axis text
axis_title_family, axis_title_face, axis_title_size
    axis title font family, face and size
axis_title_just
    axis title font justification one of [blmcrt]
plot_margin
    plot margin (specify with ggplot2::margin)
grid_col
    grid color
grid
    panel grid (TRUE, FALSE, or a combination of X, x, Y, y)
axis_col
    axis color
axis
    add x or y axes? TRUE, FALSE, "xy"
ticks
    ticks if TRUE add ticks

Details

There is an option hrbrthemes.loadfonts which – if set to TRUE – will call extrafont::loadfonts() to register non-core fonts with R PDF & PostScript devices. If you are running under Windows, the package calls the same function to register non-core fonts with the Windows graphics device.

Why IBM Plex Sans?

It’s free, has tolerable kerning pairs and multiple weights. It’s also different "not Helvetica".

Examples

```r
## Not run:
library(ggplot2)
library(dplyr)

# seminal scatterplot
ggplot(mtcars, aes(mpg, wt)) +
   geom_point() +
   labs(x="Fuel efficiency (mpg)", y="Weight (tons)",
        title="Seminal ggplot2 scatterplot example",
        subtitle="A plot that is only useful for demonstration purposes",
        caption="Brought to you by the letter 'g.'") +
   theme_ipsum_rc()
```
# seminal bar chart

# note: make this font_rc on Windows
update_geom_font_defaults(family=font_rc_light)

count(mpg, class) %>%
ggplot(aes(class, n)) +
  geom_col() +
  geom_text(aes(label=n), nudge_y=3) +
  labs(x="Fuel efficiency (mpg)", y="Weight (tons)",
       title="Seminal ggplot2 bar chart example",
       subtitle="A plot that is only useful for demonstration purposes",
       caption="Brought to you by the letter 'g'") +
  theme_ipsum_rc(grid="y") +
  theme(axis.text.y=element_blank())

## End(Not run)

---

theme_ipsum_pub A precise & pristine ggplot2 theme with opinionated defaults and an emphasis on typography

Description

You should `import_public_sans()` first and install the fonts on your system before trying to use this theme.

Usage

```r
theme_ipsum_pub(
  base_family = "Public Sans",
  base_size = 10.5,
  plot_title_family = if (.Platform$OS.type == "windows") "Public Sans" else "Public Sans Bold",
  plot_title_size = 18,
  plot_title_face = "bold",
  plot_title_margin = 10,
  subtitle_family = if (.Platform$OS.type == "windows") "Public Sans Thin" else "Public Sans Thin",
  subtitle_size = 13,
  subtitle_face = "plain",
  subtitle_margin = 15,
  strip_text_family = base_family,
  strip_text_size = 12,
  strip_text_face = "plain",
  caption_family = if (.Platform$OS.type == "windows") "Public Sans Thin" else "Public Sans Thin",
  caption_size = 9,
)```
```
theme_ipsum_pub

```
caption_face = "plain",
caption_margin = 10,
axis_text_size = base_size,
axis_title_family = base_family,
axis_title_size = 9,
axis_title_face = "plain",
axis_title_just = "rt",
plot_margin = margin(30, 30, 30, 30),
grid_col = "#cccccc",
grid = TRUE,
axis_col = "#cccccc",
axis = FALSE,
ticks = FALSE
```

**Arguments**

- **base_family**, **base_size**
  base font family and size
- **plot_title_family**, **plot_title_face**, **plot_title_size**, **plot_title_margin**
  plot title family, face, size and margin
- **subtitle_family**, **subtitle_face**, **subtitle_size**
  plot subtitle family, face and size
- **subtitle_margin**
  plot subtitle margin bottom (single numeric value)
- **strip_text_family**, **strip_text_face**, **strip_text_size**
  facet label font family, face and size
- **caption_family**, **caption_face**, **caption_size**, **caption_margin**
  plot caption family, face, size and margin
- **axis_text_size**
  font size of axis text
- **axis_title_family**, **axis_title_face**, **axis_title_size**
  axis title font family, face and size
- **axis_title_just**
  axis title font justification one of [blmcrt]
- **plot_margin**
  plot margin (specify with `ggplot2::margin`)
- **grid_col**
  grid color
- **grid**
  panel grid (TRUE, FALSE, or a combination of X, x, Y, y)
- **axis_col**
  axis color
- **axis**
  add x or y axes? TRUE, FALSE, "xy"
- **ticks**
  ticks if TRUE add ticks

**Details**

There is an option `hrbrthemes.loadfonts` which – if set to TRUE – will call `extrafont::loadfonts()` to register non-core fonts with R PDF & PostScript devices. If you are running under Windows, the package calls the same function to register non-core fonts with the Windows graphics device.
Why Public Sans?

See the design principles.

Examples

```r
## Not run:
library(ggplot2)
library(dplyr)

# seminal scatterplot
ggplot(mtcars, aes(mpg, wt)) +
  geom_point() +
  labs(x="Fuel efficiency (mpg)", y="Weight (tons)",
       title="Seminal ggplot2 scatterplot example",
       subtitle="A plot that is only useful for demonstration purposes",
       caption="Brought to you by the letter 'g'") +
  theme_ipsum_pub()

# seminal bar chart
update_geom_font_defaults(family=font_pub)

count(mpg, class) %>%
  ggplot(aes(class, n)) +
  geom_col() +
  geom_text(aes(label=n), nudge_y=3) +
  labs(x="Fuel efficiency (mpg)", y="Weight (tons)",
       title="Seminal ggplot2 bar chart example",
       subtitle="A plot that is only useful for demonstration purposes",
       caption="Brought to you by the letter 'g'") +
  theme_ipsum_pub(grid="Y") +
  theme(axis.text.y=element_blank())

## End(Not run)
```

---

**update_geom_font_defaults**

Update matching font defaults for text geoms

Description

Updates `ggplot2::geom_label` and `ggplot2::geom_text` font defaults

Usage

```r
update_geom_font_defaults(
  family = "Arial Narrow",
  face = "plain",
  size = 3.5,
```

```r
```
update_geom_font_defaults

  color = "#2b2b2b"
}

Arguments

  family, face, size, color
    font family name, face, size and color
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