Package 'fontMPlus'

Title Additional 'ggplot2' Themes Using 'M+' Fonts

Version 0.1.1

Description Provides 'ggplot2' themes based on the 'M+' fonts.
The 'M+' fonts are a font family under a free license. The font family provides
multilingual glyphs. The fonts provide 'Kana', over 5,000 'Kanji', Basic Latin,
Latin-1 Supplement, Latin Extended-A, and 'IPA' Extensions glyphs. Most of the Greek,
Cyrillic, Vietnamese, and extended glyphs and symbols are included too.
So the fonts are in conformity with ISO-8859-1, 2, 3, 4, 5, 7, 9, 10, 13, 14, 15, 16,
Windows-1252, T1, and VISCII encoding.
More information about the fonts can be found at <http://mplus-fonts.osdn.jp/about-en.html>.

Depends R (>= 3.0.0)

License MIT + file LICENSE

Encoding UTF-8

LazyData true

RoxygenNote 6.0.1

Imports hrbrthemes, extrafont, ggplot2

Suggests stringr, knitr, rmarkdown

URL <https://github.com/bhaskarvk/fontMPlus>

BugReports <https://github.com/bhaskarvk/fontMPlus/issues>

VignetteBuilder knitr

NeedsCompilation no

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Repository CRAN

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R topics documented:

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fontMPlus   *Additional ggplot2 themes using M+ fonts.*

Description

This is an add-on pacakge for hrbrthemes pacakge. It provides seven ggplot2 themes based on M+ fonts.

M+ FONTS

The M+ FONTS are a font family under the Free license. You can use, copy, and distribute them, with or without modification, either commercially or noncommercially. The font family provides multilingual glyphs. The fonts provide Kana, over 5,000 Kanji, Basic Latin, Latin-1 Supplement, Latin Extended-A, and IPA Extensions glyphs. Most of the Greek, Cyrillic, Vietnamese, and extended glyphs and symbols are included too. So the fonts are in conformity with ISO-8859-1, 2, 3, 4, 5, 7, 9, 10, 13, 14, 15, 16, Windows-1252, T1, and VISCII encoding.

One-time setup

Before using this theme you need to call import_mplus() which will import the M+ fonts in your extrafont database. Only basic Latin glyph fonts are provided with this package, but you can download and install complete glpyh sets including Kana/Kanji glyphs using the 'font_dir' argument. After this you will also need to install the M+ fonts in the directory mentioned in the output #' of import_mplus() as per your operating system's way of installing fonts.

import_mplus	*Import MPlus font for use in hrbrthemes*

Description

Import MPlus font for use in hrbrthemes

Usage

```
import_mplus(font_dir = system.file("fonts", "mplus", package = "fontMPlus"))
```

Arguments

font_dir   Location of M+ TTF fonts. This package includes only basic Latin glyph fonts. If you need multilingual glyphs including Kana/Kanji glyphs, download and extract complete M+ fonts from http://mplus-fonts.osdn.jp/about-en.html and pass the directory name where you have extracted the fonts.

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.

mplus.fontfamilies	*M+ Font Families*

Description

Convenient List of font families in M+ fonts. You can use this to pass family name options to any one of the seven themes provided by this package.

Usage

```
mplus.fontfamilies
```

Format

list

---

mplus.fonttable *M+ Font Table*

Description

fonttable of M+ fonts. Not intended for general use.

Usage

```
mplus.fonttable
```

Format

data.frame

---

theme_ipsum_mplus_c1 *ggplot2 theme based on M+ C Type1 fonts.*

Description

M+ C Type 1 fonts are a combination of fixed-fullwidth M+ Type-1 for Japanese and proportional M+ C Type-1 for alphabets.

Usage

```
theme_ipsum_mplus_c1(base_family = mplus.fontfamilies$`1c`,
  plot_title_family = mplus.fontfamilies$`1c-bold`,
  subtitle_family = mplus.fontfamilies$`1c-medium`,
  strip_text_family = mplus.fontfamilies$`1c-regular`,
  caption_family = mplus.fontfamilies$`1c-light`,
  axis_title_family = mplus.fontfamilies$`1c-light`, ...)
```

Arguments

```
base_family       base font family and size
plot_title_family
                  plot title family, face, size and margi
subtitle_family
                  plot subtitle family, face and size
strip_text_family
                  facet label font family, face and size
caption_family    plot caption family, face, size and margin
axis_title_family
                  axis title font family, face and size
```

... Arguments passed on to `hrbrthemes::theme_ipsum`

base_size base font family and size

plot_title_face plot title family, face, size and margi

plot_title_size plot title family, face, size and margi

plot_title_margin plot title family, face, size and margi

subtitle_family plot subtitle family, face and size

subtitle_face plot subtitle family, face and size

subtitle_size plot subtitle family, face and size

subtitle_margin plot subtitle margin bottom (single numeric value)

strip_text_face facet label font family, face and size

strip_text_size facet label font family, face and size

caption_face plot caption family, face, size and margin

caption_size plot caption family, face, size and margin

caption_margin plot caption family, face, size and margin

axis_title_face axis title font family, face and size

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

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.

---

theme_ipsum_mplus_c2   *ggplot2 theme based on M+ C Type2 fonts.*

Description

M+ C Type 2 fonts are a combination of fixed-fullwidth M+ Type-2 for Japanese and proportional M+ C Type-2 for alphabets.

Usage

```
theme_ipsum_mplus_c2(base_family = mplus.fontfamilies$`2c`,
  plot_title_family = mplus.fontfamilies$`2c-bold`,
  subtitle_family = mplus.fontfamilies$`2c-medium`,
  strip_text_family = mplus.fontfamilies$`2c-regular`,
  caption_family = mplus.fontfamilies$`2c-light`,
  axis_title_family = mplus.fontfamilies$`2c-light`, ...)
```

Arguments

base_family   base font family and size

plot_title_family

                    plot title family, face, size and margi

subtitle_family

                    plot subtitle family, face and size

strip_text_family

                    facet label font family, face and size

caption_family   plot caption family, face, size and margin

axis_title_family

                    axis title font family, face and size

...   Arguments passed on to `hrbrthemes::theme_ipsum`

                    base_size base font family and size

                    plot_title_face plot title family, face, size and margi

                    plot_title_size plot title family, face, size and margi

                    plot_title_margin plot title family, face, size and margi

                    subtitle_family plot subtitle family, face and size

                    subtitle_face plot subtitle family, face and size

                    subtitle_size plot subtitle family, face and size

                    subtitle_margin plot subtitle margin bottom (single numeric value)

                    strip_text_face facet label font family, face and size

                    strip_text_size facet label font family, face and size

                    caption_face plot caption family, face, size and margin

                    caption_size plot caption family, face, size and margin

                    caption_margin plot caption family, face, size and margin

> **axis_title_face** axis title font family, face and size
>
> **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

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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.

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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.

---

theme_ipsum_mplus_m1 *ggplot2 theme based on M+ M Type1 fonts.*

Description

M+ M Type 1 fonts are a combination of fixed-fullwidth M+ Type-1 for Japanese and fixed-halfwidth M+ M Type-1 for alphabets.

Usage

```
theme_ipsum_mplus_m1(base_family = mplus.fontfamilies$`1m`,
  plot_title_family = mplus.fontfamilies$`1m-bold`,
  subtitle_family = mplus.fontfamilies$`1m-medium`,
  strip_text_family = mplus.fontfamilies$`1m-regular`,
  caption_family = mplus.fontfamilies$`1m-light`,
  axis_title_family = mplus.fontfamilies$`1m-light`, ...)
```

Arguments

base_family   base font family and size

plot_title_family

                 plot title family, face, size and margi

subtitle_family

                 plot subtitle family, face and size

strip_text_family

                 facet label font family, face and size

caption_family   plot caption family, face, size and margin

axis_title_family

                 axis title font family, face and size

...   Arguments passed on to hrbrthemes::theme_ipsum

                 base_size base font family and size

                 plot_title_face plot title family, face, size and margi

                 plot_title_size plot title family, face, size and margi

                 plot_title_margin plot title family, face, size and margi

                 subtitle_family plot subtitle family, face and size

                 subtitle_face plot subtitle family, face and size

                 subtitle_size plot subtitle family, face and size

                 subtitle_margin plot subtitle margin bottom (single numeric value)

                 strip_text_face facet label font family, face and size

                 strip_text_size facet label font family, face and size

                 caption_face plot caption family, face, size and margin

                 caption_size plot caption family, face, size and margin

                 caption_margin plot caption family, face, size and margin

                 axis_title_face axis title font family, face and size

                 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

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.

---

theme_ipsum_mplus_m2   *ggplot2 theme based on M+ M Type2 fonts.*

Description

[M+ M Type 2](#) fonts are a combination of fixed-fullwidth M+ Type-2 for Japanese and fixed-halfwidth M+ M Type-2 for alphabets.

Usage

```
theme_ipsum_mplus_m2(base_family = mplus.fontfamilies$`2m`,
  plot_title_family = mplus.fontfamilies$`2m-bold`,
  subtitle_family = mplus.fontfamilies$`2m-medium`,
  strip_text_family = mplus.fontfamilies$`2m-regular`,
  caption_family = mplus.fontfamilies$`2m-light`,
  axis_title_family = mplus.fontfamilies$`2m-light`, ...)
```

Arguments

`base_family`	base font family and size
`plot_title_family`	
	plot title family, face, size and margi
`subtitle_family`	
	plot subtitle family, face and size
`strip_text_family`	
	facet label font family, face and size
`caption_family`	plot caption family, face, size and margin
`axis_title_family`	
	axis title font family, face and size
`...`	Arguments passed on to `hrbrthemes::theme_ipsum`

     base_size base font family and size

     plot_title_face plot title family, face, size and margi

     plot_title_size plot title family, face, size and margi

     plot_title_margin plot title family, face, size and margi

     subtitle_family plot subtitle family, face and size

     subtitle_face plot subtitle family, face and size

     subtitle_size plot subtitle family, face and size

    subtitle_margin plot subtitle margin bottom (single numeric value)

    strip_text_face facet label font family, face and size

    strip_text_size facet label font family, face and size

    caption_face plot caption family, face, size and margin

    caption_size plot caption family, face, size and margin

    caption_margin plot caption family, face, size and margin

    axis_title_face axis title font family, face and size

    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

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.

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---

  theme_ipsum_mplus_mn1   *ggplot2 theme based on M+ MN Type1 fonts.*

Description

M+ MN Type 1 fonts are a combination of fixed-fullwidth M+ Type-1 for Japanese and fixed-halfwidth M+ MN Type-1 for alphabets.

Usage

```
theme_ipsum_mplus_mn1(base_family = mplus.fontfamilies$`1mn`,
  plot_title_family = mplus.fontfamilies$`1mn-bold`,
  subtitle_family = mplus.fontfamilies$`1mn-medium`,
  strip_text_family = mplus.fontfamilies$`1mn-regular`,
  caption_family = mplus.fontfamilies$`1mn-light`,
  axis_title_family = mplus.fontfamilies$`1mn-light`, ...)
```

Arguments

`base_family`	base font family and size
`plot_title_family`	
	plot title family, face, size and margi
`subtitle_family`	
	plot subtitle family, face and size
`strip_text_family`	
	facet label font family, face and size
`caption_family`	plot caption family, face, size and margin
`axis_title_family`	
	axis title font family, face and size
`...`	Arguments passed on to `hrbrthemes::theme_ipsum`

> **base_size** base font family and size
>
> **plot_title_face** plot title family, face, size and margi
>
> **plot_title_size** plot title family, face, size and margi
>
> **plot_title_margin** plot title family, face, size and margi
>
> **subtitle_family** plot subtitle family, face and size
>
> **subtitle_face** plot subtitle family, face and size
>
> **subtitle_size** plot subtitle family, face and size
>
> **subtitle_margin** plot subtitle margin bottom (single numeric value)
>
> **strip_text_face** facet label font family, face and size
>
> **strip_text_size** facet label font family, face and size
>
> **caption_face** plot caption family, face, size and margin
>
> **caption_size** plot caption family, face, size and margin
>
> **caption_margin** plot caption family, face, size and margin
>
> **axis_title_face** axis title font family, face and size
>
> **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

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.

---

  theme_ipsum_mplus_p1   *ggplot2 theme based on M+ P Type1 fonts.*

Description

M+ P Type 1 fonts are a combination of fixed-fullwidth M+ Type-1 for Japanese and proportional M+ P Type-1 for alphabets.

Usage

```
theme_ipsum_mplus_p1(base_family = mplus.fontfamilies$`1p`,
  plot_title_family = mplus.fontfamilies$`1p-bold`,
  subtitle_family = mplus.fontfamilies$`1p-medium`,
  strip_text_family = mplus.fontfamilies$`1p-regular`,
  caption_family = mplus.fontfamilies$`1p-light`,
  axis_title_family = mplus.fontfamilies$`1p-light`, ...)
```

Arguments

`base_family`   base font family and size

`plot_title_family`
                  plot title family, face, size and margi

`subtitle_family`
                  plot subtitle family, face and size

`strip_text_family`
                  facet label font family, face and size

`caption_family` plot caption family, face, size and margin

```
axis_title_family
```
axis title font family, face and size

`...` Arguments passed on to `hrbrthemes::theme_ipsum`

base_size base font family and size

plot_title_face plot title family, face, size and margi

plot_title_size plot title family, face, size and margi

plot_title_margin plot title family, face, size and margi

subtitle_family plot subtitle family, face and size

subtitle_face plot subtitle family, face and size

subtitle_size plot subtitle family, face and size

subtitle_margin plot subtitle margin bottom (single numeric value)

strip_text_face facet label font family, face and size

strip_text_size facet label font family, face and size

caption_face plot caption family, face, size and margin

caption_size plot caption family, face, size and margin

caption_margin plot caption family, face, size and margin

axis_title_face axis title font family, face and size

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

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---

theme_ipsum_mplus_p2   *ggplot2 theme based on M+ P Type2 fonts.*

Description

M+ P Type 2 fonts are a combination of fixed-fullwidth M+ Type-2 for Japanese and proportional
M+ P Type-2 for alphabets.

Usage

```
theme_ipsum_mplus_p2(base_family = mplus.fontfamilies$`2p`,
  plot_title_family = mplus.fontfamilies$`2p-bold`,
  subtitle_family = mplus.fontfamilies$`2p-medium`,
  strip_text_family = mplus.fontfamilies$`2p-regular`,
  caption_family = mplus.fontfamilies$`2p-light`,
  axis_title_family = mplus.fontfamilies$`2p-light`, ...)
```

Arguments

base_family   base font family and size

plot_title_family

                  plot title family, face, size and margi

subtitle_family

                  plot subtitle family, face and size

strip_text_family

                  facet label font family, face and size

caption_family   plot caption family, face, size and margin

axis_title_family

                  axis title font family, face and size

...   Arguments passed on to `hrbrthemes::theme_ipsum`

                  base_size base font family and size

                  plot_title_face plot title family, face, size and margi

                  plot_title_size plot title family, face, size and margi

                  plot_title_margin plot title family, face, size and margi

                  subtitle_family plot subtitle family, face and size

                  subtitle_face plot subtitle family, face and size

                  subtitle_size plot subtitle family, face and size

                  subtitle_margin plot subtitle margin bottom (single numeric value)

                  strip_text_face facet label font family, face and size

                  strip_text_size facet label font family, face and size

                  caption_face plot caption family, face, size and margin

                  caption_size plot caption family, face, size and margin

                  caption_margin plot caption family, face, size and margin

axis_title_face axis title font family, face and size

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

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