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library(ggplot2)

# 1. Complete themes ----
## 1.1 theme_grey() ----
ggplot(mtcars) + geom_point(aes(wt,mpg)) + theme_grey()

## 1.2 theme_bw() ----
ggplot(mtcars) + geom_point(aes(wt,mpg)) + theme_bw()

## 1.3 theme_linedraw() ----
ggplot(mtcars) + geom_point(aes(wt,mpg)) + theme_linedraw()

## 1.4 theme_light() ----
ggplot(mtcars) + geom_point(aes(wt,mpg)) + theme_light()

## 1.5 theme_dark() ----
ggplot(mtcars) + geom_point(aes(wt,mpg)) + theme_dark()

## 1.6 theme_minimal() ----
ggplot(mtcars) + geom_point(aes(wt,mpg)) + theme_minimal()

## 1.7 theme_classic() ----
ggplot(mtcars) + geom_point(aes(wt,mpg)) + theme_classic()

## 1.7 theme_void() ----
ggplot(mtcars) + geom_point(aes(wt,mpg)) + theme_void()

# 2. Plot elements ----
## 2.1 plot.background ----
ggplot(mtcars) + geom_point(aes(wt,mpg)) +
  labs(title = 'Title', subtitle = 'Subtitle') +
  theme(plot.background = element_rect(fill='pink'))

## 2.2 plot.title and plot.subtitle ----
ggplot(mtcars) + geom_point(aes(wt,mpg)) +
  labs(title = 'Title', subtitle = 'Subtitle',
       caption = 'Caption') +
  theme(plot.title = element_text(color='red', size = 25),
        plot.subtitle = element_text(color='grey40', face = 'italic'),
        plot.caption = element_text(color='grey40'))

# 3. Panel elements ----
## 3.1 panel.background ----
ggplot(mtcars) + geom_point(aes(wt,mpg)) +
  labs(title = 'Title', subtitle = 'Subtitle',
       caption = 'Caption') +
  theme(panel.background = element_rect(fill = 'pink'))

## 3.2 panel.border ----
ggplot(mtcars) + geom_point(aes(wt,mpg)) +
  labs(title = 'Title', subtitle = 'Subtitle',
       caption = 'Caption') +
  theme(panel.border = element_rect(color = 'red', fill=NA))

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## 3.3 panel.grid ----
ggplot(mtcars) + geom_point(aes(wt,mpg)) +
  labs(title = 'Title', subtitle = 'Subtitle',
        caption = 'Caption') +
  theme(panel.grid = element_line(color = 'red'))

# 4. Axis elements ----
## 4.1 axis.title ----
ggplot(mtcars) + geom_point(aes(wt,mpg)) +
  labs(title = 'Title', subtitle = 'Subtitle',
        caption = 'Caption') +
  theme(axis.title = element_text(color = 'red'))

ggplot(mtcars) + geom_point(aes(wt,mpg)) +
  labs(title = 'Title', subtitle = 'Subtitle',
        caption = 'Caption') +
  theme(axis.title.x = element_text(color = 'forestgreen'),
        axis.title.y = element_text(color = 'blue'))

## 4.2 axis.text ----
ggplot(mtcars) + geom_point(aes(wt,mpg)) +
  labs(title = 'Title', subtitle = 'Subtitle',
        caption = 'Caption') +
  theme(axis.text = element_text(size=25, angle = 40),
        axis.text.y = element_text(color = 'forestgreen'))

## 4.3 axis.ticks and axis.ticks.length ----
ggplot(mtcars) + geom_point(aes(wt,mpg)) +
  labs(title = 'Title', subtitle = 'Subtitle',
        caption = 'Caption') +
  theme(axis.ticks = element_line(linewidth=8),
        axis.ticks.length = unit(18, 'points'))

# 5. Fonts ----
## 5.1 For Windows users ----
install.packages('extrafont')
library('extrafont')

font_import()
# You will be prompted to continue [y/n]
# Type 'y' and press enter

loadfonts(device="win")

## 5.2 For Mac users ----
install.packages('extrafont')
library('extrafont')

font_import()
# You will be prompted to continue [y/n]
# Type 'y' and press enter

loadfonts()

# 5.3 Check which fonts are available ----
fonts()

# 6. Custom theme ----

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# You have a pre-theme plot saved as 'existing_plot'
existing_plot <- ggplot(mtcars) + geom_point(aes(wt,mpg)) + labs(title =
'TITLE', subtitle='Subtitle')

# Save your theme settings as an object ('my_theme')
my_theme <- theme(plot.title = element_text(size=25, family = 'Urbanist', face = 'bold',
color = 'blue'),
  plot.subtitle = element_text(size=15, family = 'Urbanist', face =
'italic', color = 'grey40'),
  axis.title = element_text(size = 10, family = 'Urbanist'),
  axis.text = element_text(size = 8, family = 'Urbanist'),
)

# Add your custom theme to the existing plot
existing_plot + my_theme
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