1 Working with Themes

```
z <- ggplot(mtcars, aes(wt, mpg, colour = factor(cyl)))
+ geom_point(size=3)

z + theme(panel.background = element_rect(
        fill = "lightblue"))

z + theme(legend.position = "none")

z + theme(panel.grid.minor = element_line(
      colour = "red",
      linetype = "dotted"))
```
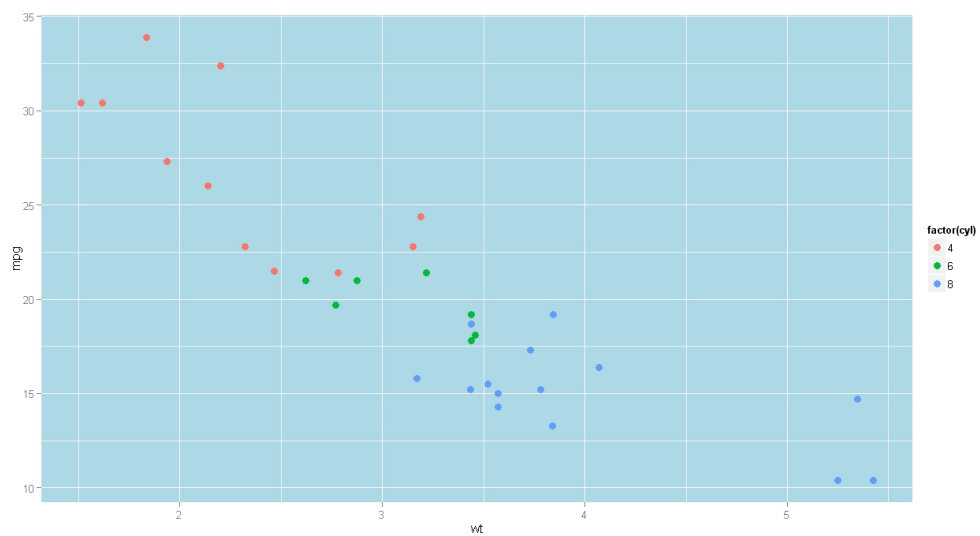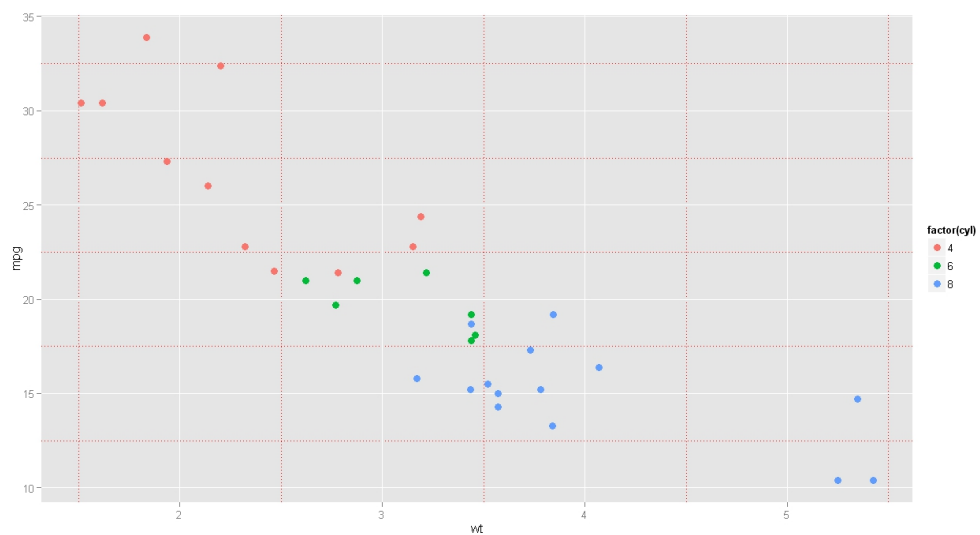
Figure 1: Light blue background

Figure 2: Red dotted lines

```
%Not Working Right
set.seed(1)

z <- rnorm(1000)

qplot(z, geom = "blank") +

    geom_histogram(aes(y = ..density.., fill="green")) +

    stat_density(geom = "line", aes(colour = "red")) +

    stat_function(fun=dnorm, aes(x = z, colour = "blabla")) +

    scale_colour_manual(name = "",
            values = c("green", "blue"),
            breaks = c("bla", "blabla"),
            labels = c("kernel_est", "norm_curv"))
```

```
set.seed(1)

z <- rnorm(1000)

qplot(z, geom = "blank") +
    geom_histogram( aes(y=..density..),
                         breaks=seq(0,400,by=25),
                         colour="black",
                         fill="white") +
    stat_function(fun=dnorm,
            args=list(mean=mean(df$PF), sd=sd(df$PF)))+
    labs(title="01. Distribuio percentual de demandas por PF",
            y="Percentual")
```

```
library(ggplot2)
ggplot(mtcars, aes(x = wt)) +
        geom_histogram(aes(y = ..density..), fill = "red") +
        stat_function(
            fun = dnorm,
            args = with(mtcars, c(mean = mean(wt),
                sd = sd(wt)))
            ) +
        scale_x_continuous("Miles per gallon") +
        opts(title = "Histogram with Normal Curve")
```