Dicas no R

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# 1. Links Importantes

- Soluções R data science

<http://nickg.bio/_posts/ngiangre/r_for_data_science_solutions.html>

# 1. Usando Filter

library(dplyr)

dados <- ToothGrowth

dados\_VC <-filter(dados, dados$supp == "VC")

teste <- dados %>% filter(supp == "VC")

# 2. Gráfico dispersão em classe

library(ggplot2)

ggplot(data= mpg) +

geom\_point(mapping = aes(x = displ, y = hwy, color = class)) +

xlab("Variavel X")+

ylab("Variavel Y")

# 3. Adicionando Facetas Gráficas – facet\_wrap

ggplot(data = mpg)+

geom\_point(mapping = aes(x = displ, y = hwy), color = "blue")+

facet\_wrap(~class, nrow = 2)+

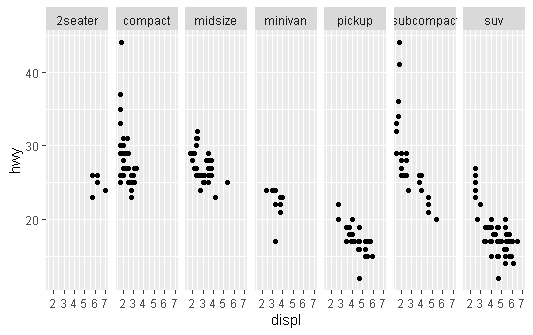
theme\_classic()

# 4. Grid – facet\_grid

ggplot(data = mpg)+

geom\_point(mapping = aes(x = displ, y = hwy))+

facet\_grid(. ~ class)



# 5. Mapeamento – geom\_smooth

ggplot(data = mpg, mapping = aes(x = displ, y=hwy))+

geom\_point()+

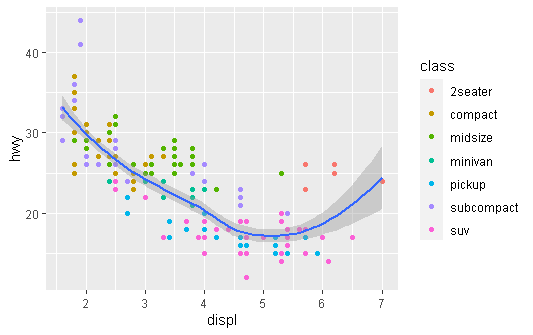
geom\_smooth()

#Separado por classes

ggplot(data = mpg, mapping = aes(x = displ, y=hwy))+

geom\_point(mapping = aes(color = class))+

geom\_smooth()

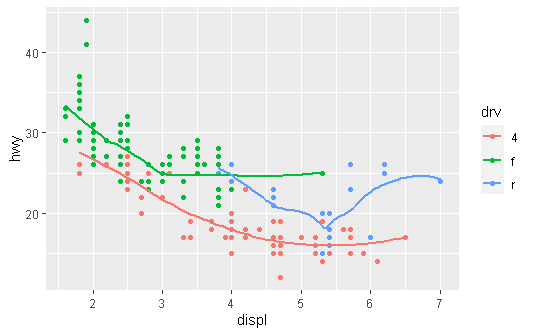


#Mapeando

ggplot(data = mpg, mapping = aes(x = displ, y = hwy, color = drv)) +

geom\_point() +

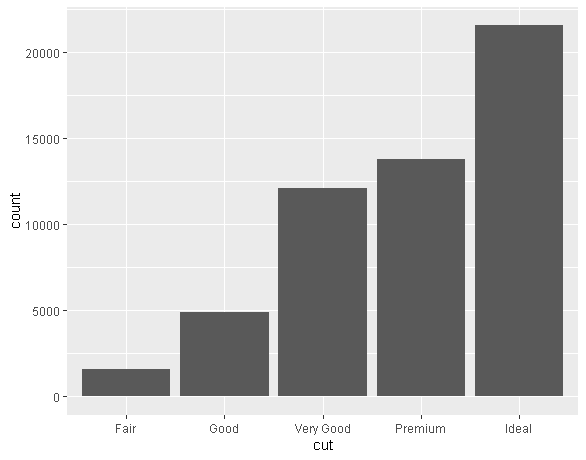
geom\_smooth(se = FALSE)



# 6. Gráfico de barras

ggplot(data = diamonds)+

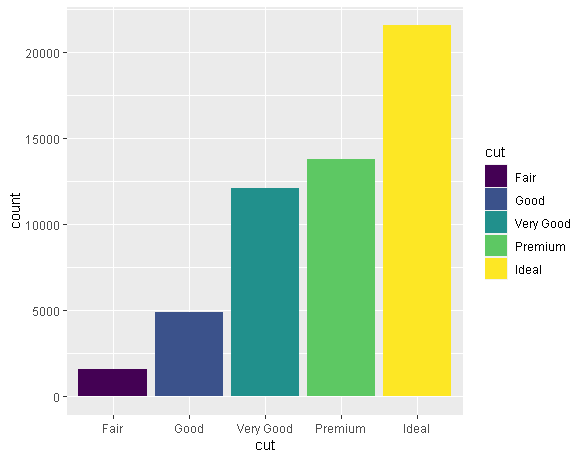
geom\_bar(mapping = aes(x = cut))



#Gráfico de Cores

ggplot(data = diamonds)+

geom\_bar(mapping = aes(x = cut, fill = cut))



#Gráfico de barras - cores lado a lado – position dodge

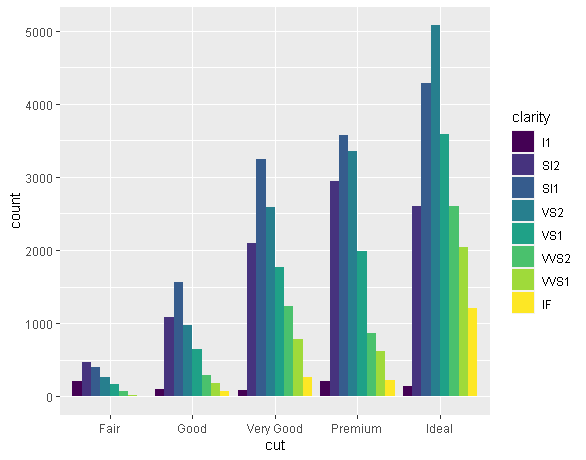
ggplot(data = diamonds)+

geom\_bar(

mapping = aes(x = cut, fill = clarity),

position = "dodge"

)

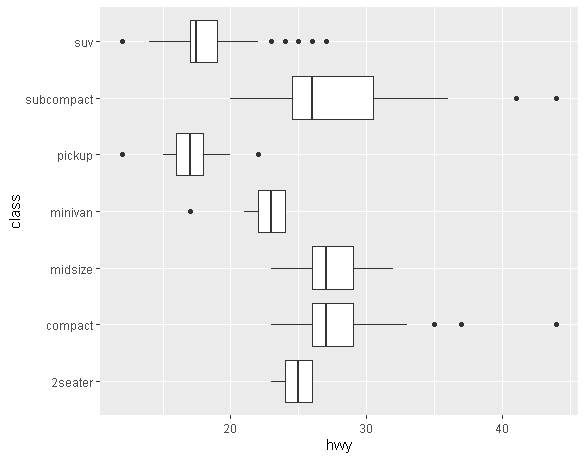


# 7. GGPLOT boxplot e coord\_flip

ggplot(data = mpg, mapping = aes(x = class, y = hwy))+

geom\_boxplot()+

coord\_flip()



# 8. Renomear colunas e nomes colunas maiúscula

rename(dados, ano = year)

rename\_with(dados, toupper)

9. Select – movendo colunas e selecionando dados

#Move colunas para o início

dados <- select(dados, arr\_delay, carrier, dep\_delay, everything())

# cria base de dados

#ends\_with (com delay no nome)

fil <- select(flights, year:day, ends\_with("delay"), distance, air\_time)

10. Mutate – Criando colunas calculadas

mutate(fil, gain = arr\_delay - dep\_delay)