

Visualização de dados

Nome

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Construção de gráfico com o ggplot2

Os pacotes utilizados para construção de gráficos.

```
library(tidyverse)
```

Gráfico de dispersão

```
mtcars |>
  ggplot() +
  aes(x=disp,y=mpg) +
  geom_point(size = 3,
             color = 'blue') +
  labs(x = 'Displacement',
       y = 'Miles/gallon',
       title = 'Gráfico 1') +
  theme_minimal() + # troca a cor de fundo
  theme(plot.title = element_text(hjust=0.5,
                                   size = 20),
        axis.text = element_text(size = 20),
        axis.title = element_text(size = 20))
```

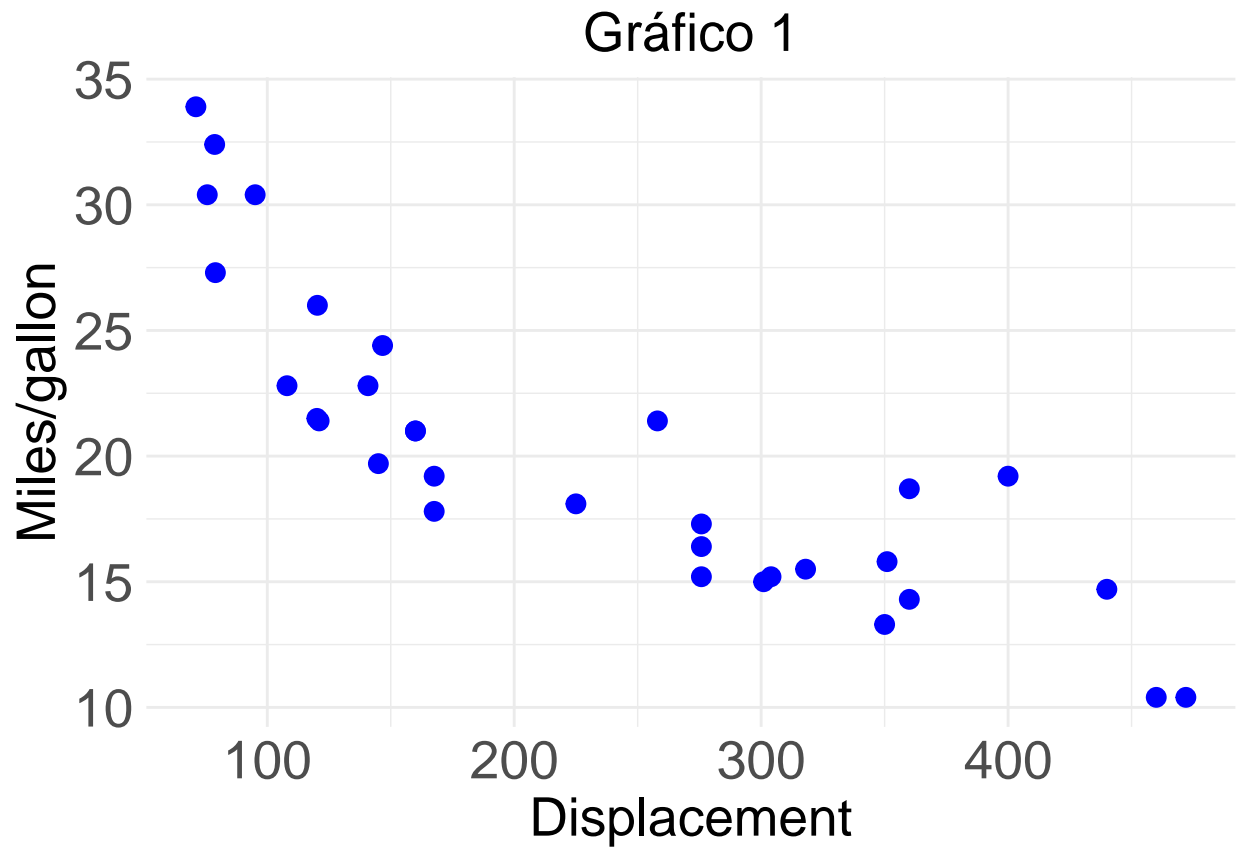
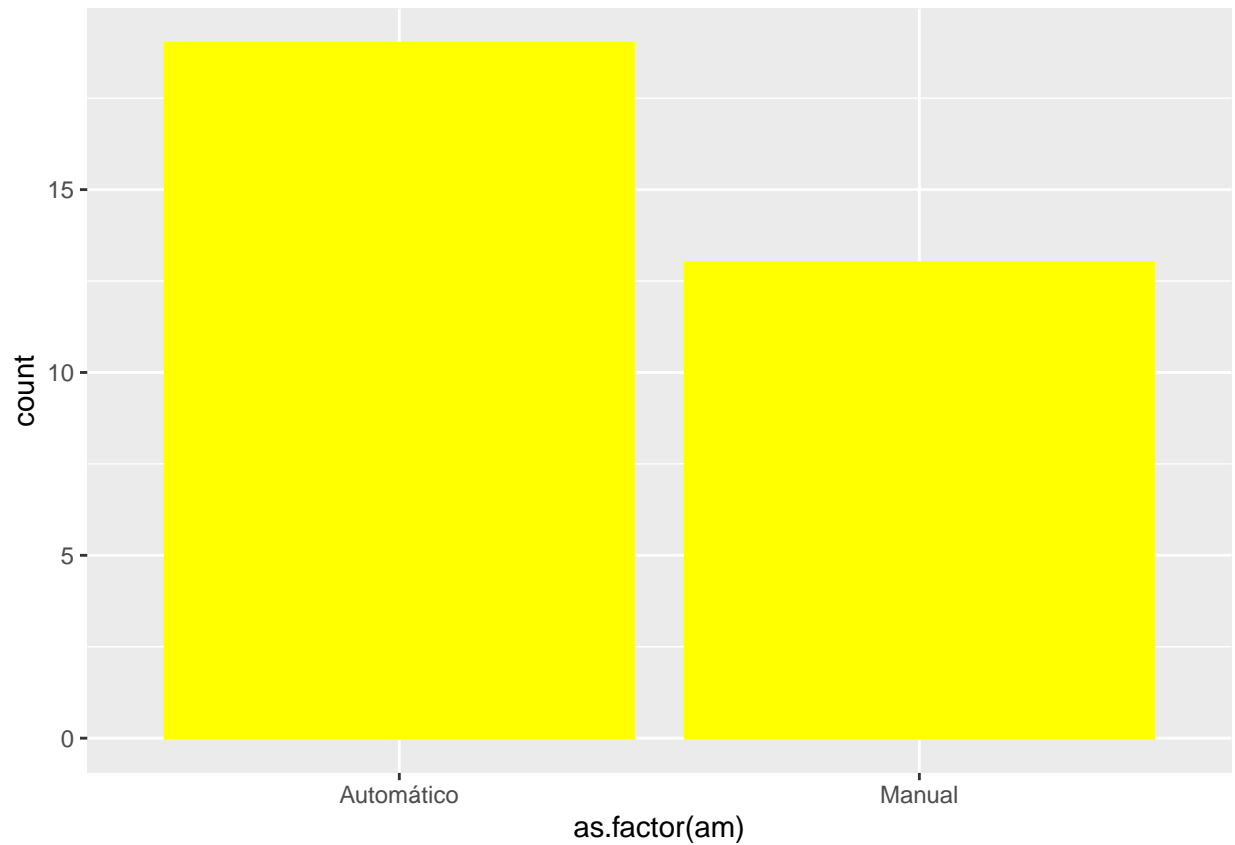


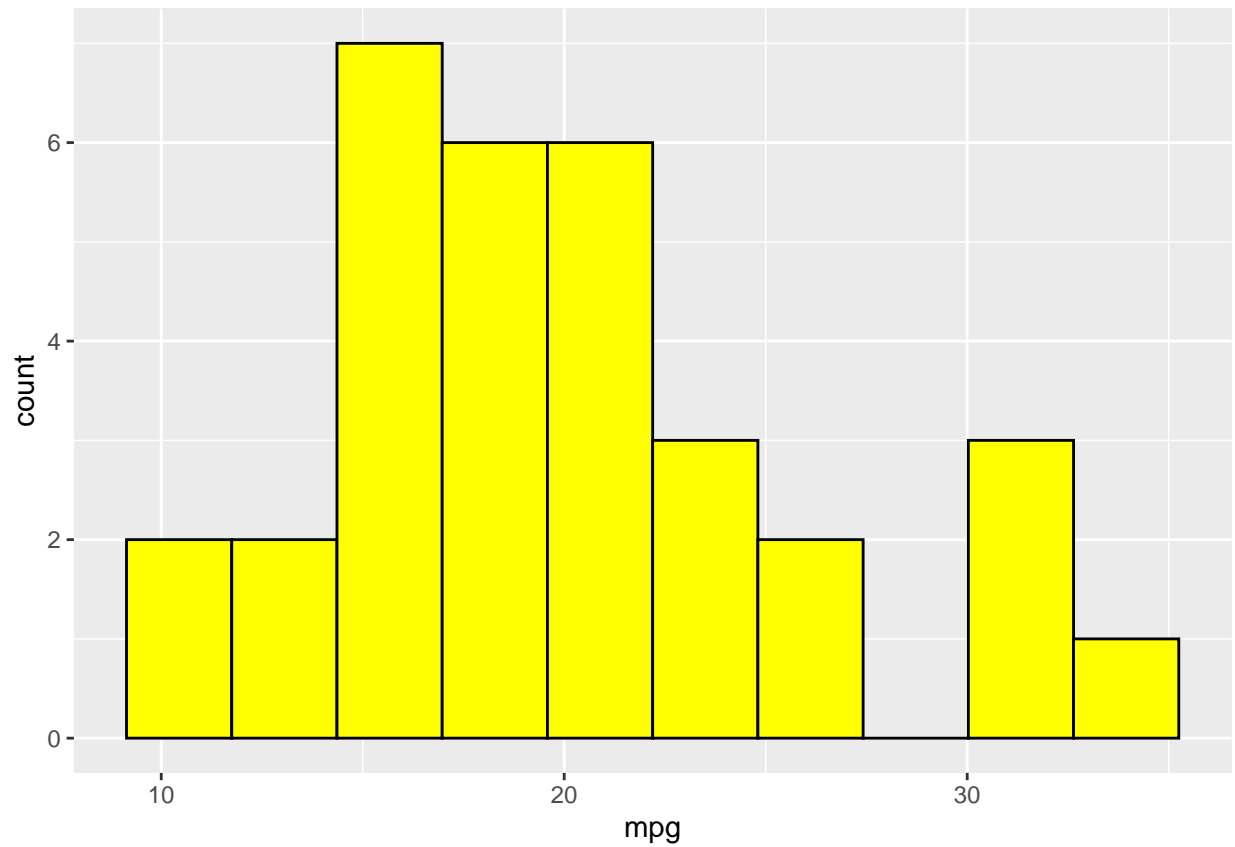
Gráfico de barras

```
mtcars |>
  ggplot() +
  aes(x = as.factor(am)) +
  geom_bar(color = 'yellow',
           fill = 'yellow') +
  scale_x_discrete(labels =
    c('Automático', 'Manual'))
```



Histograma

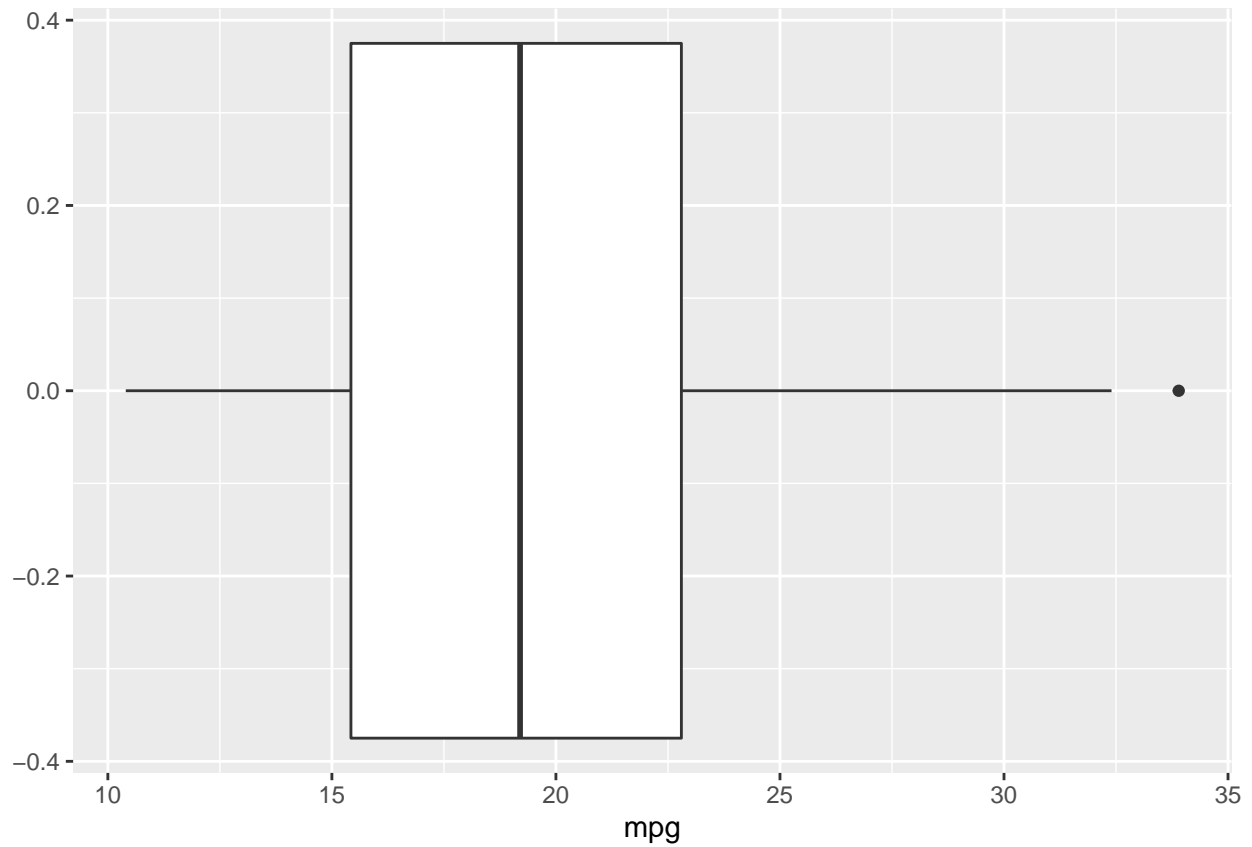
```
mtcars |>
  ggplot() +
  aes(x = mpg) +
  geom_histogram(bins = 10,
                 fill = 'yellow',
                 color = 'black')
```



Box-plot

- Uma variável

```
mtcars |>
  ggplot() +
  aes(x = mpg) +
  geom_boxplot()
```



- Duas variáveis: quantitativa e qualitativa

```
mtcars |>
  ggplot() +
  aes(x = as.factor(am), y = mpg) +
  geom_boxplot()
```

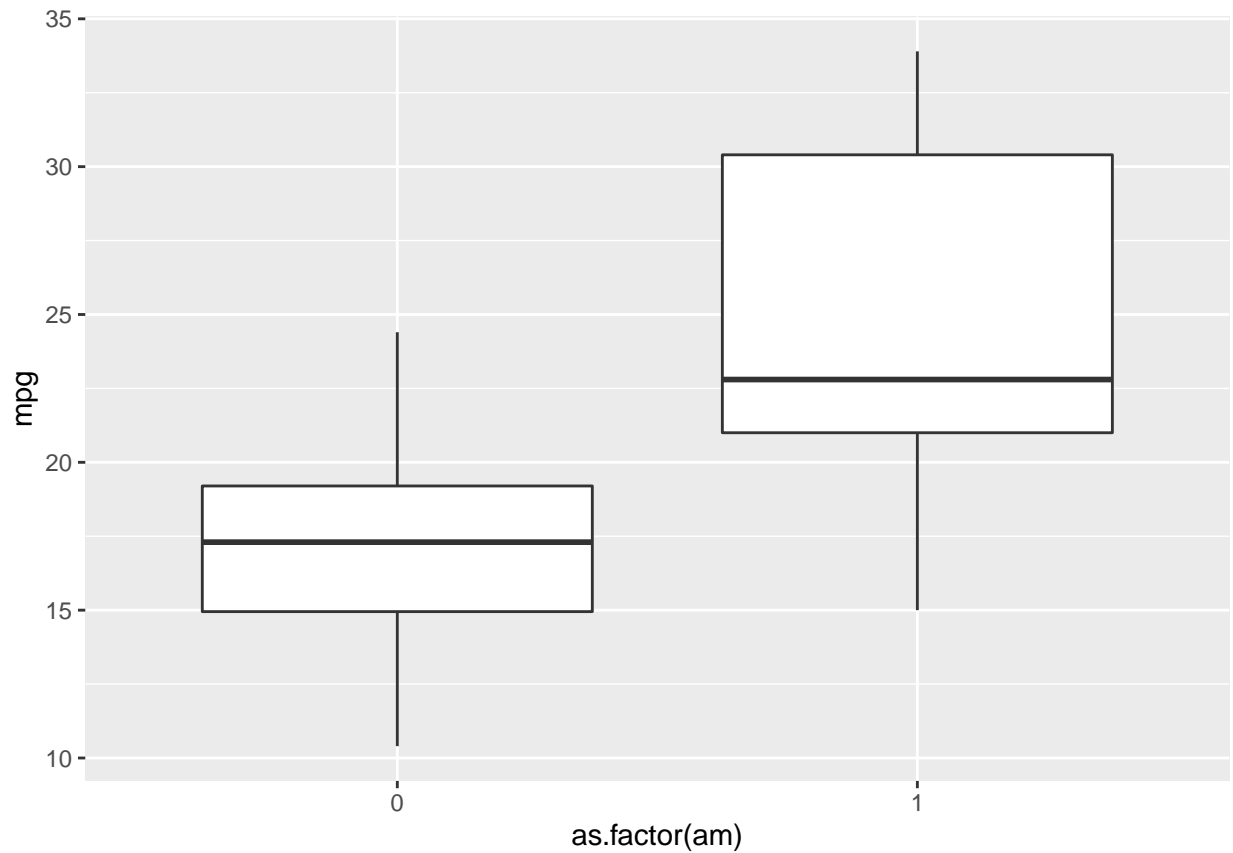


Gráfico de linhas

```
economics |>  
  ggplot() +  
  aes(x = date, y = pop) +  
  geom_line()
```

