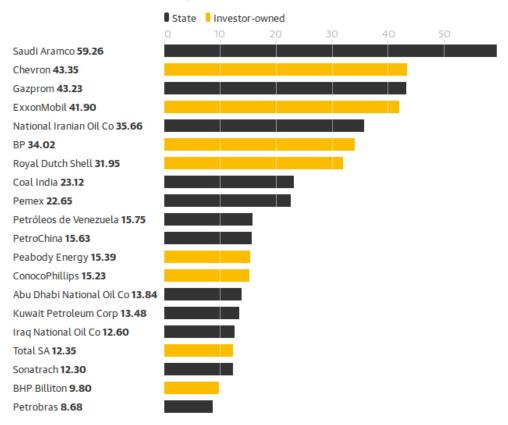
Praca domowa nr. 1

Wstęp

 $\label{lem:com/environment/2019/oct/09/revealed-20-firms-third-carbon-emissions Wykres:$

Billion tonnes of carbon dioxide equivalent



Rozwiązując zadanie starałem się jak najdokładniej odwzorować powyższy wykres z użyciem biblioteki ggplot2.

Rozwiązanie zadania

```
library(ggplot2)
data <- read.csv('data.csv')</pre>
data$Owner <- factor(data$Owner, levels = rev(levels(data$Owner)))</pre>
myfunction <- function(x, y) bquote(.(x)~bold(.(y)))</pre>
make_labels <- function(value1, value2) {</pre>
  x <- as.character(value1)</pre>
 y <- as.character(value2)</pre>
  do.call(expression, mapply(myfunction, x, y))
}
ggplot(data) +
  geom col(aes(reorder(Company, Emission), Emission, fill = Owner), width = 0.65) +
  scale_fill_manual(values=c('#333333', '#FCBC00')) +
  coord_flip() +
  scale_x_discrete(expand = c(0, 0), labels = make_labels(data$Company, data$Emission)) +
  scale_y_continuous(position = 'right', breaks = seq(0, 50, 10), minor_breaks = seq(0, 50, 10), expand
  labs(fill = '', title = 'Billion tonnes of carbon dioxide equivalent') +
  theme(axis.title = element_blank(),
        axis.text.x = element_text(color = '#CDBFC5', size = 10),
        axis.text.y = element_text(hjust = 0),
        axis.ticks.x = element_line(color = '#CDBFC5'),
        axis.ticks.y = element_blank(),
        axis.line = element blank(),
        panel.background = element_rect(fill = NA),
        panel.ontop = TRUE,
        panel.grid.major.x = element_line('white', 0.1),
        panel.grid.major.y = element_blank(),
        legend.position = c(0.19, 1.12),
        plot.margin = unit(c(4,1,1,1), 'lines'),
        legend.direction = 'horizontal',
        legend.key.height = unit(0.4, 'cm'),
        legend.key.width = unit(0.2, 'cm'),
        plot.title = element_text(size = 10, hjust = -1.65, vjust = 15)
```

Billion tonnes of carbon dioxide equivalent

