SOK-1005-Assignment2

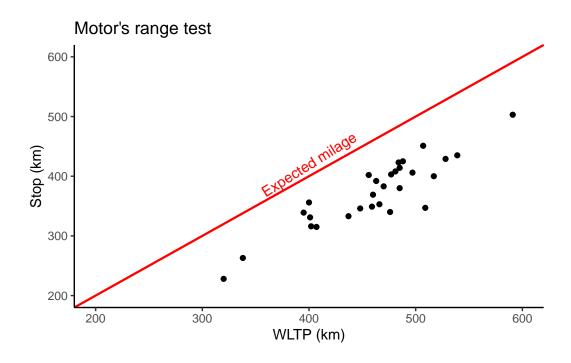
30 - Casper Andresen

```
library(tidyverse)
-- Attaching packages ----- tidyverse 1.3.2 --
v ggplot2 3.4.0 v purrr 0.3.4
v tibble 3.1.8 v dplyr 1.0.10
v tidyr 1.2.1 v stringr 1.4.1
v readr 2.1.2 v forcats 0.5.2
Warning: package 'ggplot2' was built under R version 4.2.2
-- Conflicts ----- tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag() masks stats::lag()
  url <- "https://www.motor.no/aktuelt/motors-store-vintertest-av-rekkevidde-pa-elbiler/2171
  df_motor <- rvest::read_html(url) %>%
    rvest::html_table(header = TRUE)
  df_motor <- df_motor[[1]]</pre>
  df_motor$`WLTP-tall` <- gsub(" .*", "", df_motor$`WLTP-tall`)</pre>
  df_motor$`STOPP` <- gsub(" .*", "", df_motor$`STOPP`)</pre>
  df_motor$`WLTP-tall` <- as.numeric(df_motor$`WLTP-tall`)</pre>
  df_motor$`STOPP` <- as.numeric(df_motor$`STOPP`)</pre>
```

```
df_motor <- df_motor %>%
    rename("WLTP" = "WLTP-tall") %>%
    rename("stop" = "STOPP")

df_motor %>%
    ggplot(aes(x=WLTP, y=stop)) +
    geom_point() +
    scale_y_continuous(limits = c(200,600)) +
    scale_x_continuous(limits = c(200,600)) +
    labs(y = "Stop (km)", x = "WLTP (km)", title = "Motor's range test") +
    geom_abline(color = "red", linewidth = .8) +
    annotate("text", x = 400, y = 420, label = "Expected milage", angle = 32, color = "red")
    theme_classic()
```

Warning: Removed 4 rows containing missing values (`geom_point()`).



```
lm(stop ~ WLTP, data = df_motor)
```

```
Call:
lm(formula = stop ~ WLTP, data = df_motor)
Coefficients:
(Intercept)
                    WLTP
   -26.6450
                0.8671
  df_motor %>%
    ggplot(aes(x=WLTP, y=stop)) +
    geom_point() +
    scale_y_continuous(limits = c(200,600)) +
    scale_x_continuous(limits = c(200,600)) +
    labs(y = "Stop (km)", x = "WLTP (km)", title = "Motor's range test") +
    geom_abline(color = "red", linewidth = .8) +
    annotate("text", x = 400, y = 420, label = "Expected milage", angle = 32, color = "red")
    annotate("text", x = 430, y = 370, label = "Actual milage", angle = 28, color = "blue",
    geom_smooth(method=lm, se = FALSE) +
    theme_classic()
`geom_smooth()` using formula = 'y ~ x'
Warning: Removed 4 rows containing non-finite values (`stat_smooth()`).
```

Warning: Removed 4 rows containing missing values (`geom_point()`).

