Mappeoppgave 3

```
# Mappeoppgave 3

library(httr)
library(readr)
library(tidyverse)
```

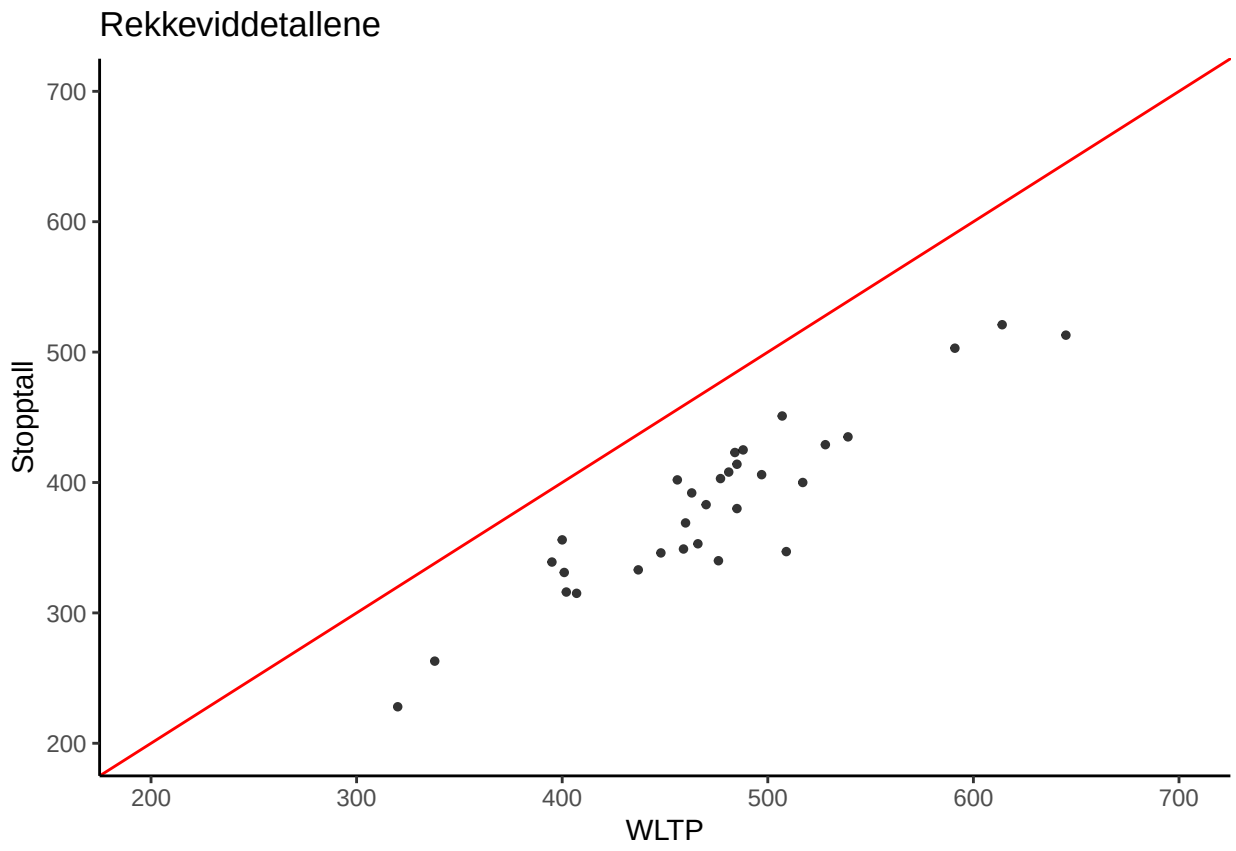
```
## -- Attaching packages --------------------------------------- tidyverse 1.3.1 --

## v ggplot2 3.3.5     v dplyr   1.0.7
## v tibble  3.1.6     v stringr 1.4.0
## v tidyr   1.1.4     v forcats 0.5.1
## v purrr   0.3.4

## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```
library(rvest)
```

```
##
## Attaching package: 'rvest'

## The following object is masked from 'package:readr':
##
##     guess_encoding
```

```
### Oppgave 1

# Laster ned dataen
url <- read_html("https://www.motor.no/aktuelt/motors-store-vintertest-av-Kjørelengde-pa-elbiler/217132
Kjørelengde <- html_table(html_nodes(url, "table")[[1]], header = TRUE)

# Endrer navnet i tabellen for å lettere holde orden, samtidig som at vi rydder i tabellen
Motor <- subset(Kjørelengde, !STOPP == "x")

Motor <-
  Motor %>%
  rename(wltp = `WLTP-tall`, stopp = STOPP)

Motor$stopp <- gsub("km", "",as.character(Motor$stopp))
Motor$Avvik <- gsub("%", "",as.character(Motor$Avvik))

Motor$wltp <-substr(Motor$wltp,1,3)
```

```
Motor$wltp <- as.numeric(as.character(Motor$wltp))
Motor$stopp <- as.numeric(as.character(Motor$stopp))

Rekkevidde<- Motor %>%
  ggplot(aes(x=wltp, y=stopp)) +
  geom_point(size=1, alpha=0.8, color = "black") +
  theme_classic() +
  scale_x_continuous(breaks = seq(200, 700, 100), limits=c(200, 700)) +
  scale_y_continuous(breaks = seq(200, 700, 100), limits=c(200, 700)) +
  geom_abline(intercept = 0, slope = 1, size = 0.5, color="red") +
  labs(title = "Rekkeviddetallene", x = "WLTP", y = "Stopptall")
Rekkevidde
```




```
### Oppgave 2

lm(stopp ~ wltp, data = Motor)
```

```
##
## Call:
## lm(formula = stopp ~ wltp, data = Motor)
##
## Coefficients:
## (Intercept)         wltp
##    -26.6450       0.8671
```

```
##### Her kan man se at oppgitt kjørelengde ikke er det samme som faktisk kjørelengde.

Rekkevidde + geom_smooth(method='lm', col="blue", size=0.5)
```

```
## `geom_smooth()` using formula 'y ~ x'
```