Mappeoppgave 2

```
library(tidyverse)
## -- Attaching packages ------ tidyverse 1.3.1 --
## v ggplot2 3.3.5 v purrr 0.3.4

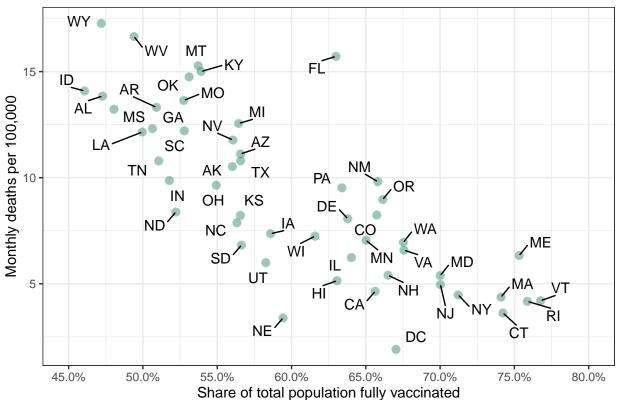
## v tibble 3.1.6 v dplyr 1.0.7

## v tidyr 1.1.4 v stringr 1.4.0

## v readr 2.1.1 v forcats 0.5.1
## Warning: package 'tibble' was built under R version 4.1.2
## Warning: package 'tidyr' was built under R version 4.1.2
## Warning: package 'readr' was built under R version 4.1.2
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()
library(jsonlite)
## Warning: package 'jsonlite' was built under R version 4.1.2
## Attaching package: 'jsonlite'
## The following object is masked from 'package:purrr':
##
##
       flatten
library(ggrepel)
## Warning: package 'ggrepel' was built under R version 4.1.2
```

Oppgave 1

20 avg. monthly deaths per 100,000



Oppgave 2

```
lm(deaths_per_100k ~ fully_vaccinated_pct_of_pop, data = data)

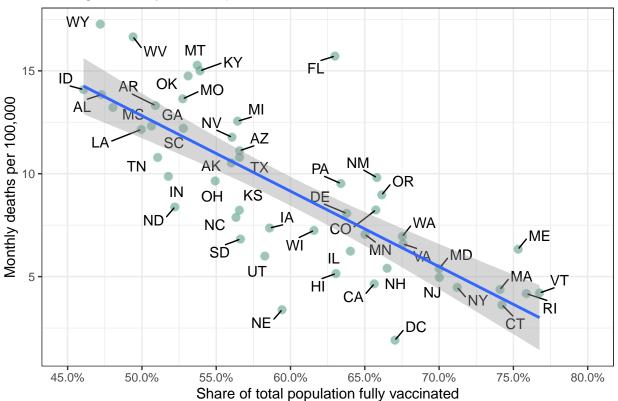
##
## Call:
## lm(formula = deaths_per_100k ~ fully_vaccinated_pct_of_pop, data = data)
```

```
Coefficients:
##
                                fully_vaccinated_pct_of_pop
##
                   (Intercept)
                         31.15
##
                                                      -36.66
data %>%
  ggplot(aes(x=fully_vaccinated_pct_of_pop, y=deaths_per_100k, label = name)) +
  geom_point(size = 3, shape = 21, col="aquamarine3", fill = "aquamarine4", stroke = 0.2, alpha = 0.5)
  geom_text_repel(aes(label = name), box.padding = unit(0.45, "lines")) +
  geom_smooth(method = lm) +
  scale_x_continuous(labels = scales::percent, limits=c(0.45, 0.80), breaks=seq(0.45, 0.80, by = 0.05))
  labs(title="20 avg. monthly deaths per 100,000",
       x = "Share of total population fully vaccinated",
       y = "Monthly deaths per 100,000") +
  theme_bw()
```

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

##

20 avg. monthly deaths per 100,000



Den blå linjen viser regresjonen i figuren, det er en tydelig sammenheng mellom den prosentvise vaksinerte andelen av befolkningen og månedlige dødsfall per 100 000. Antall dødsfall synker samtidig som den prosentvise andelen vaksinerte øker. Det grå området viser koeffisienten for regresjonsmodellen.