Mappeoppgave 2

```
library(jsonlite)
```

```
## Warning: package 'jsonlite' was built under R version 4.1.2
```

```
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
```

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

```
library(rvest)
```

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

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

```
library(countrycode)
```

```
## Warning: package 'countrycode' was built under R version 4.1.2
```

```
library(ggrepel)
```

Oppgave 1

```
NY_Times <- fromJSON("https://static01.nyt.com/newsgraphics/2021/12/20/us-coronavirus-deaths-2021/ff0ad

NY_Times <- NY_Times %>%
  mutate(countryCode = state.abb[match(name,state.name)])
```

```
ggplot(NY_Times, aes(x = fully_vaccinated_pct_of_pop, y = deaths_per_100k)) +
  geom_point(colour = "green") +
  geom_text(aes(label = countryCode),hjust=0, vjust=-1.6, size = 4) +
  labs(title = "Andel fullvaksinert","Antall døde per 100.000 menneske") +
  ggtitle("Antall snittdøde over 20 måneder per 100 000 menneske") +
  scale_x_continuous(labels = scales::percent, limits=c(0.45, 0.85), breaks=seq(0.45, 0.85, by = 0.05))
  theme_bw() +
    annotate("text", x=0.50, y=16,
           label= "Lavere vaksinering < dødsrate") +
  annotate("segment", x = 0.45,
           xend = 0.48, y = 15.5,
           yend = 17, colour = "blue", arrow = arrow())+
  annotate("text", x=0.75, y=2,
           label= "Høyere vaksinering > dødsrate") +
  annotate("segment", x = 0.75,
           xend = 0.80, y = 9,
           yend = 6, colour = "blue", arrow = arrow())
```

Warning: Removed 1 rows containing missing values (geom_text).

Antall snittdøde over 20 måneder per 100 000 menneske
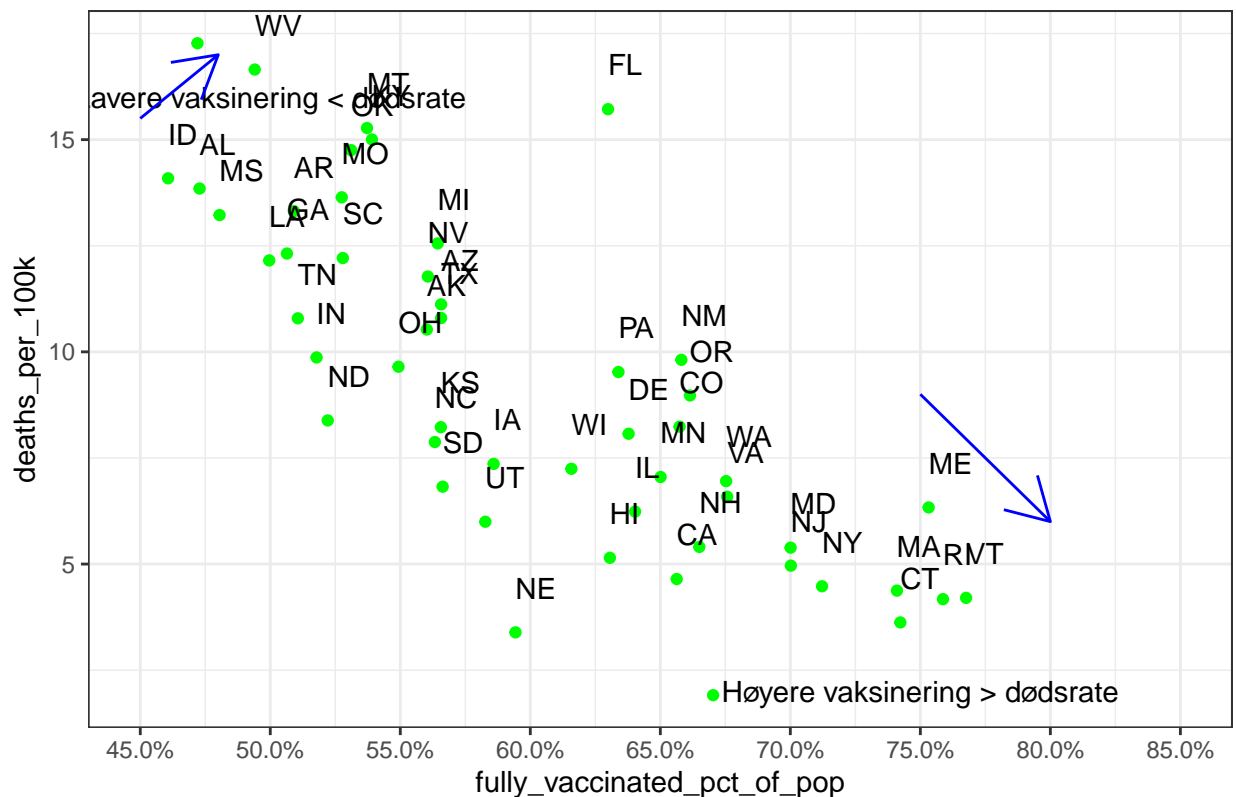
Her får jeg opp en graf som viser en synkende trend med antall døde pga. Covid-19.

oppgave 2

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

```
##
## Call:
## lm(formula = deaths_per_100k ~ fully_vaccinated_pct_of_pop, data = NY_Times)
##
## Coefficients:
##                  (Intercept)   fully_vaccinated_pct_of_pop
##                        31.15                        -36.66
```

```
plot + geom_smooth(method = lm)
```

```
## NULL
```

Dermed får jeg opp koffensientene (Intercept) = 31.15 og fully_vaccinated_pct_of_pop = -36.66. Dette betyr at y verdien ligger på 31,15 og x faller med en verdi på -36.66. Dette betyr at antall døde synker og andel fullvaksinerte øker.