SOK-2008-2022-oppgave4

2022-10-18

```r
library(tidyverse)
```

```
## Warning: package 'tidyverse' was built under R version 4.1.3
```

```
## -- Attaching packages --------------------------------------- tidyverse 1.3.2 --
## v ggplot2 3.3.6      v purrr   0.3.5
## v tibble  3.1.8      v dplyr   1.0.10
## v tidyr   1.2.1      v stringr 1.4.1
## v readr   2.1.3      v forcats 0.5.2
```

```
## Warning: package 'ggplot2' was built under R version 4.1.3
```

```
## Warning: package 'tibble' was built under R version 4.1.3
```

```
## Warning: package 'tidyr' was built under R version 4.1.3
```

```
## Warning: package 'readr' was built under R version 4.1.3
```

```
## Warning: package 'purrr' was built under R version 4.1.3
```

```
## Warning: package 'dplyr' was built under R version 4.1.3
```

```
## Warning: package 'stringr' was built under R version 4.1.3
```

```
## Warning: package 'forcats' was built under R version 4.1.3
```

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

```r
women <- read.csv2("women.csv")

women$tot_full_rate<-as.numeric(women$tot_full_rate)
women$fem_emp_rate_0_2<-as.numeric(women$fem_emp_rate_0_2)
women$fem_emp_rate_6_14<-as.numeric(women$fem_emp_rate_6_14)

women%>%
  ggplot(aes(x=tot_full_rate,y=fem_emp_rate_0_2))+
  geom_point()+
  ylim(0, 100)+
  labs(x ="Uker med 100% støtte", y = "Yrkesdeltakelse blant mødre hvis yngste barn er 0-2 år")+
```

```
    geom_smooth(method=lm, se=FALSE) -> kids_0_2

women%>%
  ggplot(aes(x=tot_full_rate,y=fem_emp_rate_6_14))+
  geom_point()+
  ylim(0, 100)+
  labs(x ="Uker med 100% støtte", y = "Yrkesdeltakelse blant mødre hvis yngste barn er 6-14 år")+
  geom_smooth(method=lm, se=FALSE) -> kids_6_14

library(gridExtra)
```

```
##
## Attaching package: 'gridExtra'

## The following object is masked from 'package:dplyr':
##
##     combine
```

```
library(grid)

grid.arrange(kids_0_2,kids_6_14, nrow = 1,  top = textGrob("Sammenhengen mellom foreldrepermisjons leng
```

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

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


Sammenhengen mellom foreldrepermisjons lengde og mødres yrkesdelakelse etter yngste barns alder