Utfordring 2.3

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```
# Utfordring 2.3

library(readr)
library(ggplot2)
```

```
## Warning: package 'ggplot2' was built under R version 4.1.2
```

```
library(tidyverse)
```

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

```
## -- Attaching packages --------------------------------------- tidyverse 1.3.2 --
## v tibble  3.1.6     v dplyr   1.0.7
## v tidyr   1.1.4     v stringr 1.4.0
## v purrr   0.3.4     v forcats 0.5.1
## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

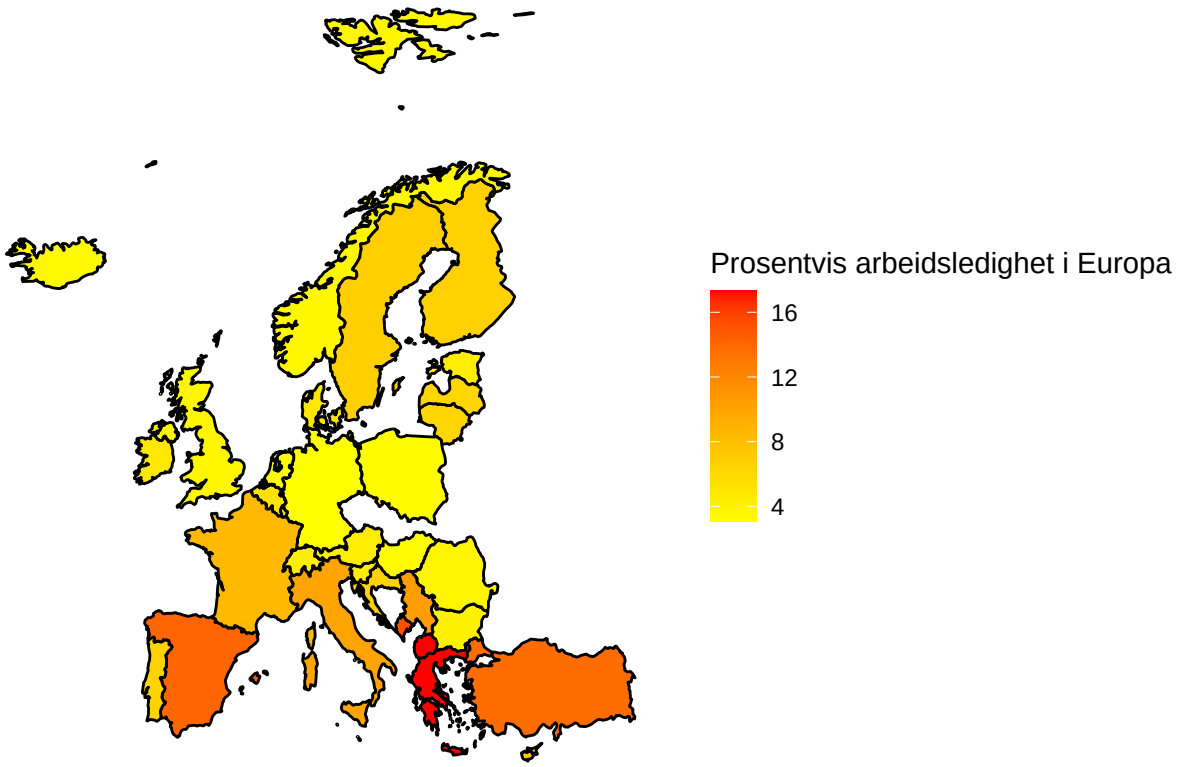
```
union<- read_csv("https://uit-sok-2008-h22.github.io/Assets/union_unempl.csv")
```

```
## Rows: 33 Columns: 10
## -- Column specification --------------------------------------------------------
## Delimiter: ","
## chr (5): country, iso3c, level, coord, age
## dbl (5): year, density, coverage, unempl, mean_unempl2015_2019
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

```
union$country <- gsub("United Kingdom", "UK", union$country)

names(union)[names(union) == "country"] <- "region"
View(union)
```

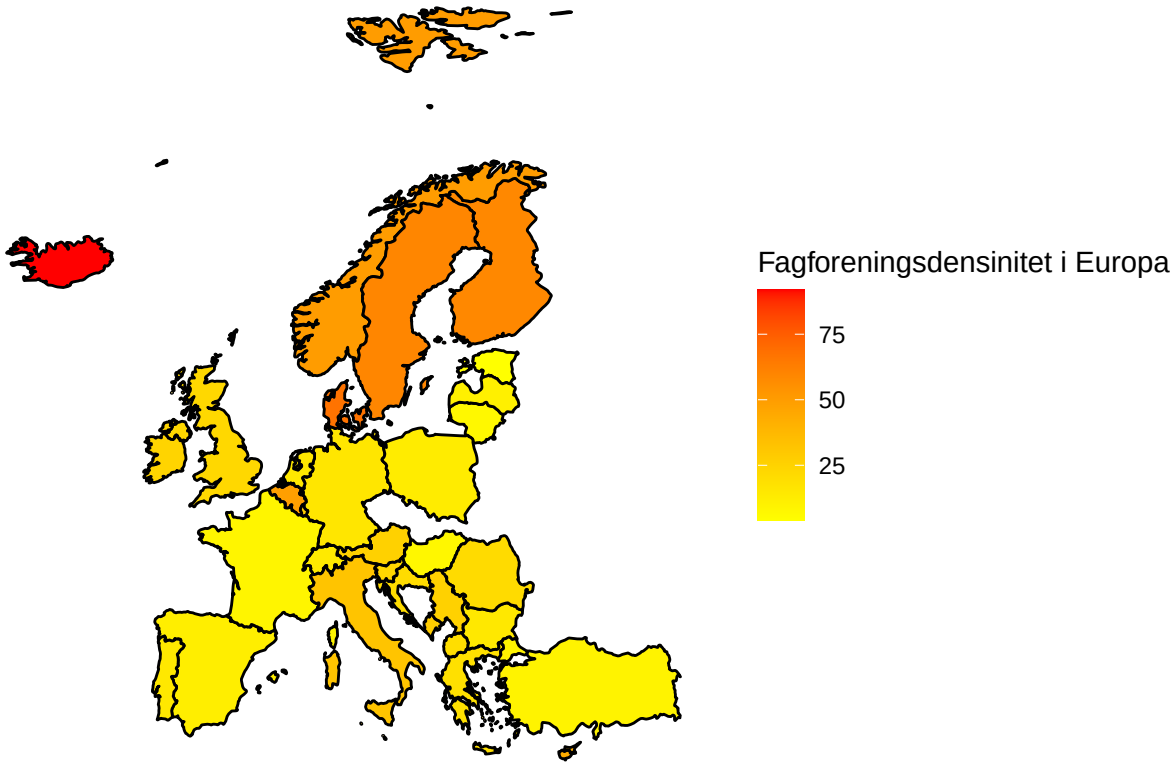
```
## 1.   Lag kart over Europa som viser 1) arbeidsledighetsrate i ulike land.

mapdata <- map_data("world")
mapdata <- left_join(mapdata, union, by="region")
```

```
mapdata<- mapdata %>%
  filter(!is.na(mapdata$iso3c))

mapdata %>%
  ggplot(aes( x=long, y=lat, group=group)) +
  geom_polygon(aes(fill=unempl), color = "black") +
  scale_fill_gradient(name = "Prosentvis arbeidsledighet i Europa", low = "yellow", high = "red", na.val
  theme(axis.text.x = element_blank(),
        axis.text.y = element_blank(),
        axis.ticks = element_blank(),
        axis.title.y = element_blank(),
        axis.title.x = element_blank(),
        rect = element_blank())
```

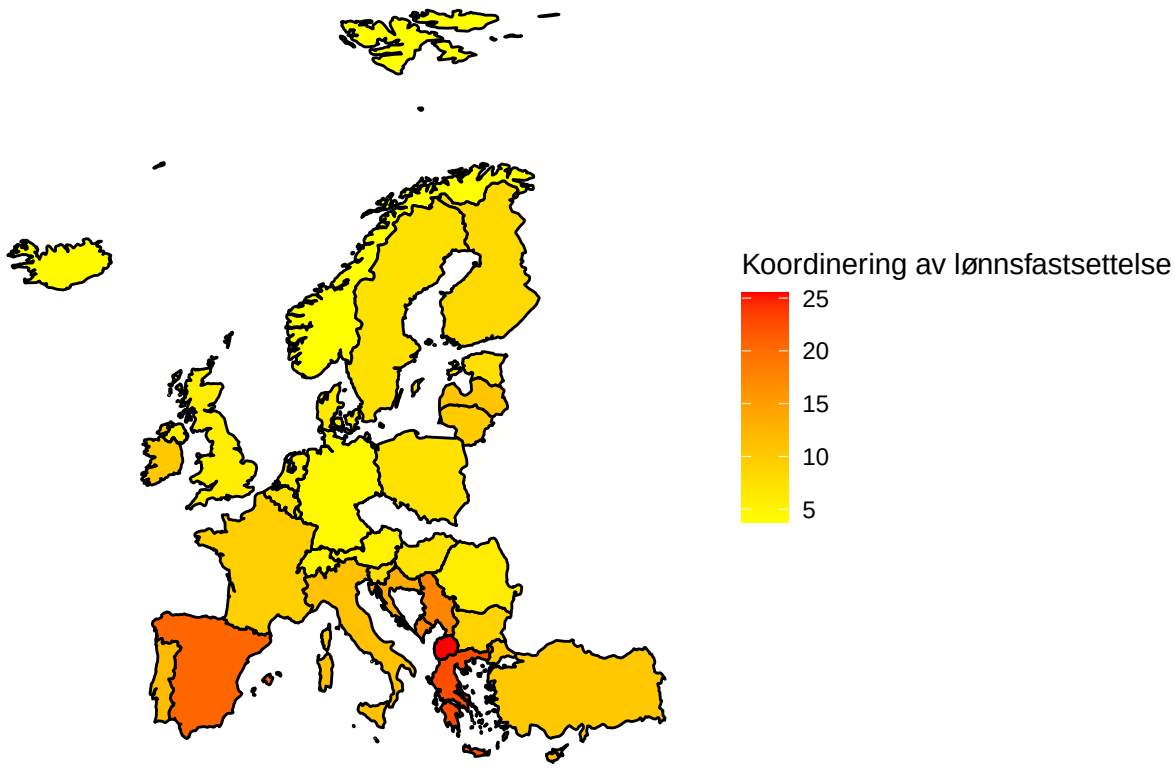



```
## 2.   Lag kart over Europa som viser 1) fagforeningsdensitet, 3) "Excess coverage", og 3) Koordinering

mapdata <- map_data("world")
mapdata <- left_join(mapdata, union, by="region")

mapdata<- mapdata %>%
  filter(!is.na(mapdata$iso3c))

mapdata %>%
  ggplot(aes( x=long, y=lat, group=group)) +
  geom_polygon(aes(fill=density), color = "black") +
```

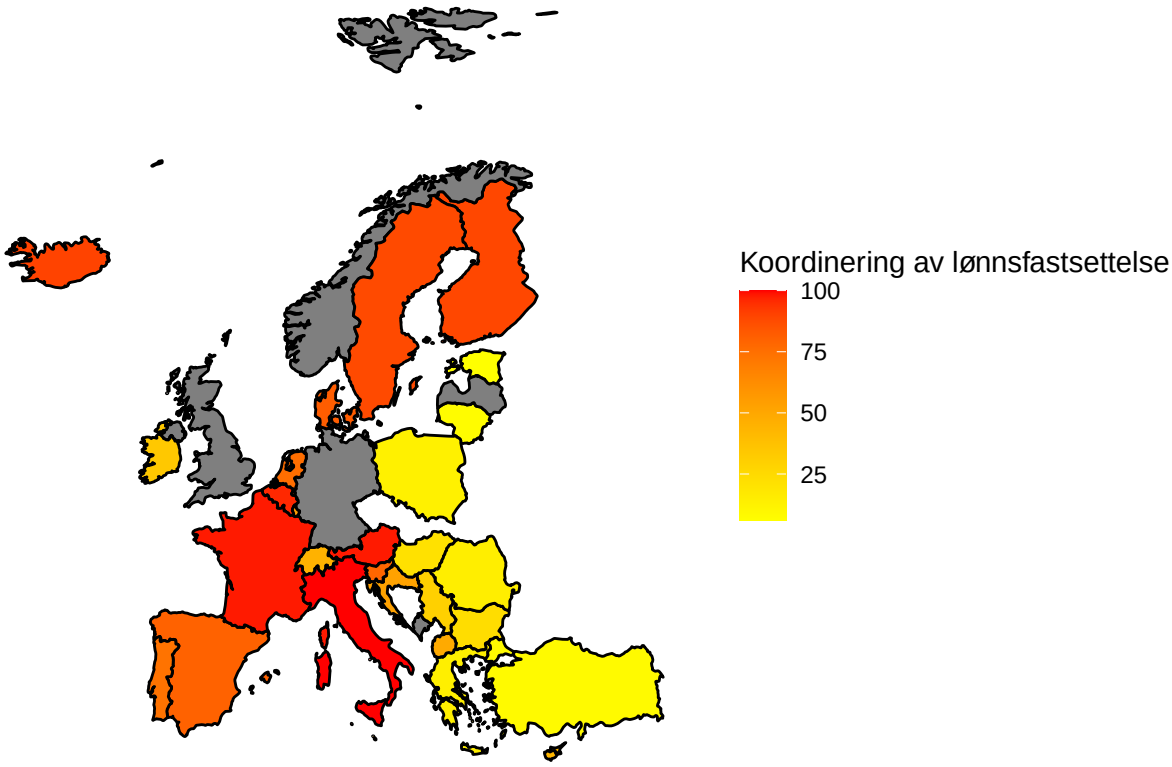
```
  scale_fill_gradient(name = "Fagforeningsdensinitet i Europa", low = "yellow", high = "red", na.value =
  theme(axis.text.x = element_blank(),
        axis.text.y = element_blank(),
        axis.ticks = element_blank(),
        axis.title.y = element_blank(),
        axis.title.x = element_blank(),
        rect = element_blank())
```




```
mapdata %>%
  ggplot(aes( x=long, y=lat, group=group)) +
  geom_polygon(aes(fill=mean_unempl2015_2019), color = "black") +
  scale_fill_gradient(name = "Koordinering av lønnsfastsettelse", low = "yellow", high = "red", na.valu
  theme(axis.text.x = element_blank(),
        axis.text.y = element_blank(),
        axis.ticks = element_blank(),
        axis.title.y = element_blank(),
        axis.title.x = element_blank(),
        rect = element_blank())
```




```
mapdata %>%
  ggplot(aes( x=long, y=lat, group=group)) +
  geom_polygon(aes(fill=coverage), color = "black") +
  scale_fill_gradient(name = "Koordinering av lønnsfastsettelse", low = "yellow", high = "red", na.valu
  theme(axis.text.x = element_blank(),
        axis.text.y = element_blank(),
        axis.ticks = element_blank(),
        axis.title.y = element_blank(),
        axis.title.x = element_blank(),
        rect = element_blank())
```




```
### Jeg har hentet "inspirasjon fra https://www.youtube.com/watch?v=AgWgPSZ7Gp0
```