

SOK-2008-2022-oppgave3

Utfordring 3.1

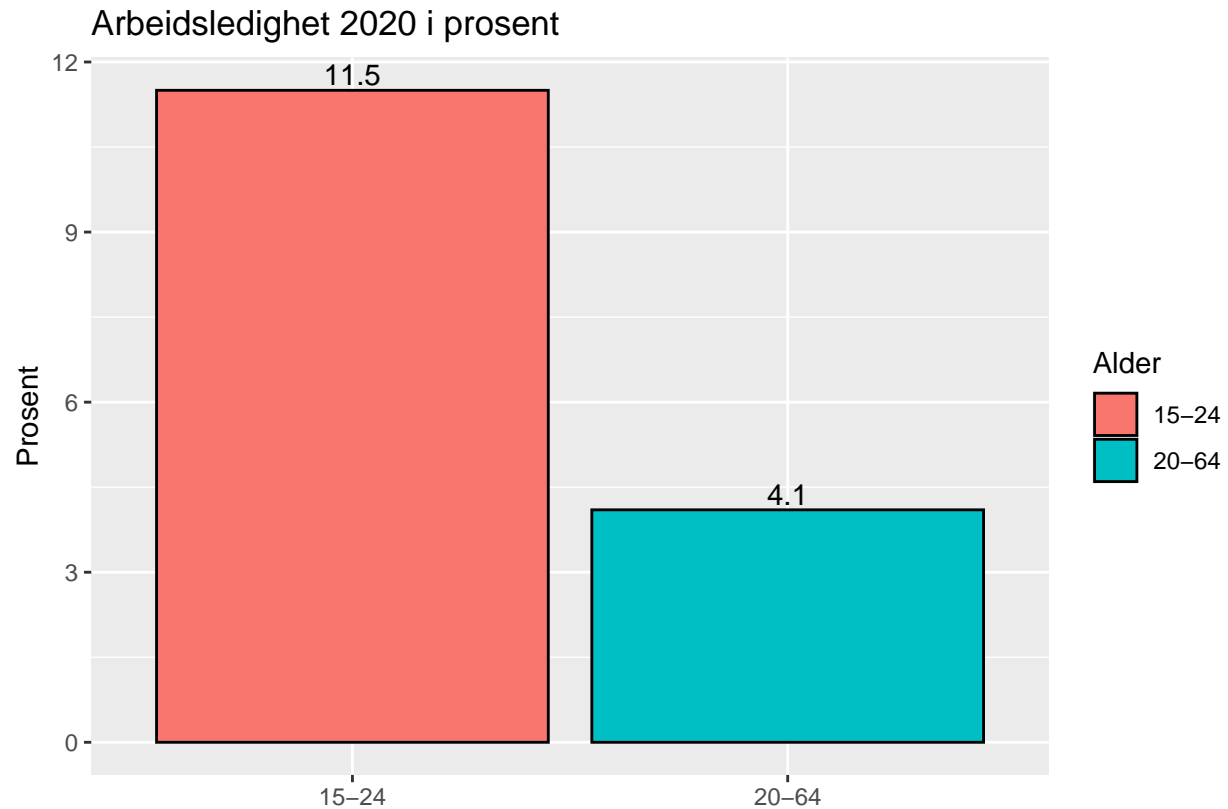
1. Arbeidsledighet blant ungdommer og voksne

```
arbeidsledighet <- ApiData("https://data.ssb.no/api/v0/no/table/11155/",
                           Kjonn = "0",
                           Alder = c("15-24", "20-64"),
                           UtdNivaa = "TOT",
                           ContentsCode = "ArbLedigProsent",
                           Tid = "2020")

arbeidsledighet <- as.tibble(arbeidsledighet[[2]])
```

```
## Warning: 'as.tibble()' was deprecated in tibble 2.0.0.
## Please use 'as_tibble()' instead.
## The signature and semantics have changed, see '?as_tibble'.
## This warning is displayed once every 8 hours.
## Call 'lifecycle::last_lifecycle_warnings()' to see where this warning was generated.
```

```
ggplot(arbeidsledighet, aes(x = Alder, y = value, fill = Alder)) +
  geom_col(col = "black") +
  geom_text(aes(label=value), position=position_dodge(width=0.9), vjust=-0.25) +
  labs(title = "Arbeidsledighet 2020 i prosent",
       x = "",
       y = "Prosent")
```



2. Minstelønn i utvalgte land

```
dsets<-get_datasets()
search_dataset("wage",dsets)
```

```
## # A tibble: 10 x 2
##   id          title
##   <chr>      <chr>
## 1 MIN2AVE    Minimum relative to average wages of full-time workers
## 2 MW_CURP    Minimum wages at current prices in NCU
## 3 AV_AN_WAGE Average annual wages
## 4 AWCOMP     Taxing Wages - Comparative tables
## 5 AE02012_CH6_FIG3 Figure 3: Time Use by Country Income Level: In middle income
## 6 AE02012_CH6_FIG31 Figure 31: Probability of being waged employed by education level
## 7 RMW        Real minimum wages
## 8 TABLE_I6  Table I.6. All-in average personal income tax rates at average
## 9 AGE_GAP    Wage gap by age
## 10 IMW       Incomes of minimum wage earners
```

```
search_dataset("unemployment",dsets)
```

```
## # A tibble: 12 x 2
##   id          title
```

```
##      <chr>                <chr>
## 1 DUR_I                  Incidence of unemployment by duration
## 2 DUR_D                  Unemployment by duration
## 3 AVD_DUR                Average duration of unemployment
## 4 AEO2012_CH6_FIG4       Figure 4: Youth and adult unemployment
## 5 AEO2012_CH6_FIG29      Figure 29: Youth employment and unemployment by education
## 6 AEO2012_CH6_FIG19      Figure 19: The trade off between vulnerable employment and unemployment
## 7 EAG_NEAC_DURUNE        Distribution of unemployed adults by duration of unemployment
## 8 PTRUB                  PTR for families claiming Unemployment Benefits
## 9 MIG_NUP_RATES_GENDER   Employment, unemployment, and participation rates by place of birth
## 10 NRR                   Net replacement rate in unemployment
## 11 PTRCCUB               PTR for parents claiming Unemployment Benefits and unemployment
## 12 EAG_TRANS_DURUNEMP    Percentage of young adults not in education and unemployment
```

```
minwage <- get_dataset("MIN2AVE",
                      filter = "USA+CAN+FRA+GBR+DEU+NZL",
                      pre_formatted = TRUE)
```

```
minwage2019 <- subset(minwage, Time < 2019 & Time > 2007 & SERIES=="MEDIAN")
minwage2007_2019 <- subset(minwage2019, Time>2007)
```

```
unempl <- get_dataset("MIG_NUP_RATES_GENDER",
                    filter = "USA+CAN+FRA+GBR+DEU+NZL",
                    pre_formatted = TRUE)
```

```
unempl2019 <- subset(unempl, Time<2019 & RATE=="U_RATE" & BIRTH=="NB" & GENDER=="TOT")
unempl2007_2019 <- subset(unempl2019, Time>2007)
```

```
minwage_unempl <- left_join(minwage2007_2019, unempl2007_2019, by=c("COUNTRY", "Time"))
```

```
complete_minwage_unempl <- na.omit(minwage_unempl)
```

```
complete_minwage_unempl$MinWage_0 <- as.numeric(complete_minwage_unempl$ObsValue.x)
```

```
complete_minwage_unempl$UnEmpl <- as.numeric(complete_minwage_unempl$ObsValue.y)
```

```
complete_minwage_unempl$MinWage <- complete_minwage_unempl$MinWage_0 * 100
```

```
minwage_plot <- ggplot(data=complete_minwage_unempl, aes(x=UnEmpl, y=MinWage, group=COUNTRY, color=COUNTRY)) +
  geom_line(aes(group=COUNTRY), size=1) +
  geom_point(size=2.5) +
  labs(x = "Arbeidsledighet", y = "Minstelønn % av medianlønn") +
  theme(legend.position="none") +
  geom_label_repel(
    data=complete_minwage_unempl %>% group_by(COUNTRY) %>%
      filter(UnEmpl==min(UnEmpl)),
    aes(UnEmpl, MinWage, fill = factor(COUNTRY), label = sprintf('%s', COUNTRY)),
    color = "black",
    fill = "white")
minwage_plot
```

