Lesson-6.—23.05.2023.R

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```
rm(list = ls())

library(dplyr)
```

```
##
## Attache Paket: 'dplyr'

## Die folgenden Objekte sind maskiert von 'package:stats':
##
##     filter, lag

## Die folgenden Objekte sind maskiert von 'package:base':
##
##     intersect, setdiff, setequal, union
```

```
library(ggplot2)
library(rdbnomics)
```

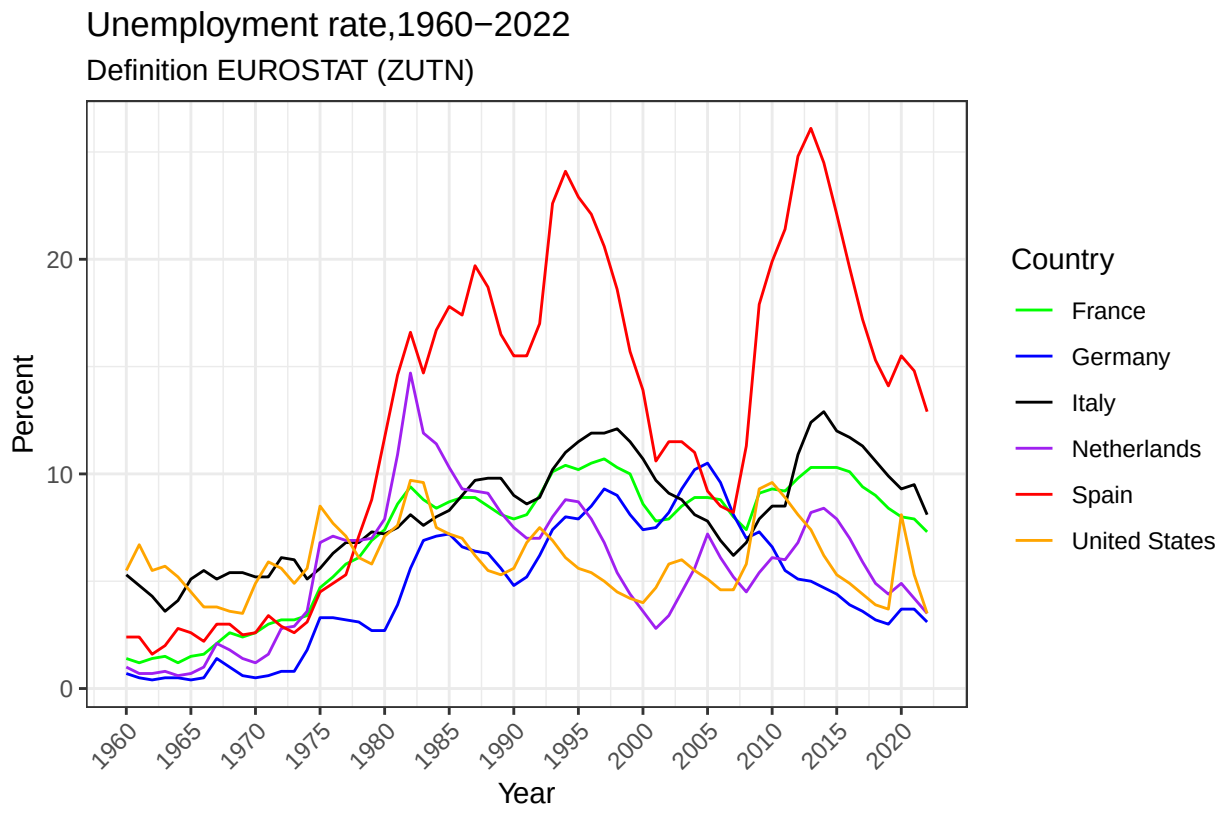
```
## Visit <https://db.nomics.world>.
```

```
df_usa <- rdb(ids = "AMECO/ZUTN/USA.1.0.0.0.ZUTN") %>%
  select(Country, value, original_period) %>%
  rename(Year = original_period) %>%
  filter(Year <= 2022) %>%
  mutate(Year = as.numeric(Year))

p1 <- ggplot(df_usa, aes(x = Year,
                         y = value,
                         group = Country,
                         color = Country)) +
  geom_line() +
  theme_bw() +
  labs(y = "Percent",
       title = paste0("Unemployment rate,", min(df_usa$Year), "-", max(df_usa$Year)),
       subtitle = "Definition EUROSTAT (ZUTN)",
       caption = "Source: AMECO data from dbnomics.") +
  theme(axis.text.x = element_text(angle = 45,
                                   hjust = 1)) +
  scale_x_continuous(breaks = seq(min(df_usa$Year), max(df_usa$Year), 5))

p1
```

Source: AMECO data from dbnomics.

```
# saveRDS(df_usa, file = "Lesson 6. - 23.05.2023/df_usa.rds")

# readRDS(file = "Lesson 6. - 23.05.2023/df_usa.rds")

country_code <- c("D_W", "DEU", "FRA", "ITA", "NLD", "ESP", "USA")

countries <- paste0("AMECO/ZUTN/", country_code, ".1.0.0.0.ZUTN")

df <- rdb(ids = countries) %>%
  select(Country, value, original_period) %>%
  rename(Year = original_period) %>%
  filter(Year <= 2022) %>%
  mutate(Year = as.numeric(Year))

df_west_germany <- df %>%
  filter(Country == "West Germany" & Year < 1991)

df_germany <- df %>%
  filter(Country == "Germany" & Year >= 1991)

df_germany_together <- df_west_germany %>%
  bind_rows(df_germany) %>%
  mutate(Country = recode(Country, `West Germany` = "Germany"))

df_final <- df %>%
  filter(!(Country %in% c("West Germany", "Germany"))) %>%
```

```
  bind_rows(df_germany_together)

cols <- c("Germany" = "blue",
          "Spain" = "red",
          "France" = "green",
          "United States" = "orange",
          "Italy" = "black",
          "Netherlands" = "purple")

p2 <- ggplot(df_final, aes(x = Year,
                           y = value,
                           group = Country,
                           color = Country)) +
  scale_color_manual(values = cols) +
  geom_line() +
  theme_bw() +
  labs(y = "Percent",
       title = paste0("Unemployment rate,", min(df_final$Year), "-", max(df_final$Year)),
       subtitle = "Definition EUROSTAT (ZUTN)",
       caption = "Source: AMECO data from dbnomics.") +
  theme(axis.text.x = element_text(angle = 45,
                                   hjust = 1)) +
  scale_x_continuous(breaks = seq(min(df_final$Year), max(df_final$Year), 5))

p2
```



```r
# saveRDS(df_final, file = "Lesson 6. - 23.05.2023/df_final.rds")

# readRDS(file = "Lesson 6. - 23.05.2023/df_final.rds")
```