Eurostat EDA

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Sub-National GDP

Country codes: BE - Belgium, BG - Bulgaria, HR - Croatia, IT - Italy, AT - Austria, SE - Sweden, RS - Serbia

```
library(tidyverse)
```

```
-- Attaching packages --------------------------------------- tidyverse 1.3.2 --
v ggplot2 3.3.6      v purrr   0.3.4
v tibble  3.1.8      v dplyr   1.0.9
v tidyr   1.2.0      v stringr 1.4.0
v readr   2.1.2      v forcats 0.5.1
-- Conflicts ------------------------------------------ tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()    masks stats::lag()
```

```
library(vtable)
```

```
Loading required package: kableExtra

Attaching package: 'kableExtra'

The following object is masked from 'package:dplyr':

    group_rows
```

```r
library(dineq)
library(dplyr)

library(readr)
GDP <- read.csv('nama_10r_3gdp__custom_3564935_linear.csv')
Population <- read_csv("demo_r_pjanaggr3__custom_3579517_linear.csv")
```

Rows: 5369 Columns: 10
-- Column specification ---
Delimiter: ","
chr (7): DATAFLOW, LAST UPDATE, freq, unit, age, geo, OBS_FLAG
dbl (2): TIME_PERIOD, OBS_VALUE
lgl (1): sex

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.

```r
gdpdata <- GDP %>%
  rename(Year = TIME_PERIOD, GDP = OBS_VALUE, Region = geo)

populationdata <- Population %>%
  rename(Year = TIME_PERIOD, Population = OBS_VALUE, Region = geo)

GDP_Per_Capita <- gdpdata %>%
  #combine gdpr data with population data with
  # the same year and country
  left_join(populationdata, by=c("Region", "Year")) %>%
  select(Region, Year, GDP, Population) %>%
  mutate(
    GDP_capita = (GDP * 1000000)/Population
  )
```

```
      GDP                  Population          GDP_capita
 Min.   :    74.55    Min.   :  20320    Min.   : 1087
 1st Qu.:  1738.28    1st Qu.: 164518    1st Qu.:17180
 Median :  5614.05    Median : 273920    Median :25185
 Mean   : 10238.24    Mean   : 406217    Mean   :24191
 3rd Qu.: 10640.23    3rd Qu.: 429030    3rd Qu.:31351
 Max.   :181212.88    Max.   :4355725    Max.   :72062
                      NA's   :771        NA's   :771
```