Eurostat EDA

Sindre H. Øveraas, Alen Colacovic & Sebastian M. Fløysand

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Sub-National GDP

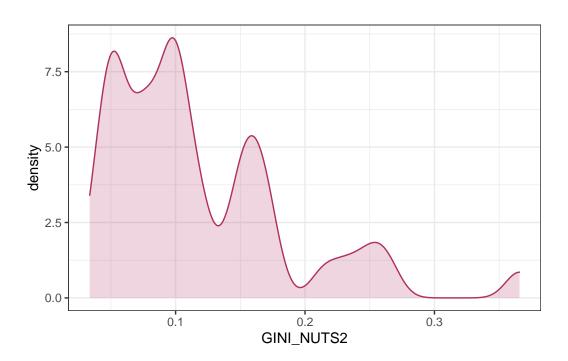
```
Country codes: BE - Belgium, BG - Bulgaria, HR - Croatia, IT - Italy, AT - Austria, SE - Sweden, RS - Serbia
```

```
library(tidyverse)
  library(vtable)
  library(dineq)
  library(dplyr)
  library(readr)
  GDP <- read.csv('nama_10r_3gdp__custom_3564935_linear.csv')</pre>
  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.
  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 %>%
   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
  GDP_Per_Capita$GDP_capita <- as.numeric(GDP_Per_Capita$GDP_capita)</pre>
  GDP_Per_Capita$Population <- as.numeric(GDP_Per_Capita$Population)</pre>
  gini.wtd(GDP_Per_Capita$GDP_capita, weights = GDP_Per_Capita$Population)
[1] 0.2603924
  GDP_Per_Capita <- GDP_Per_Capita %>%
   mutate(NUTS2 = substr(GDP_Per_Capita$Region,1,4))
  GDP_Per_Capita <- GDP_Per_Capita %>%
    mutate(NUTS = substr(GDP_Per_Capita$Region,1,2))
  GDP_Per_Capita %<>%
    group_by(NUTS2) %>%
   na.exclude(GDP_Per_Capita) %>%
    mutate(GINI_NUTS2 = gini.wtd(GDP_capita, weights = Population)) %>%
    ungroup()
  summary(GDP_Per_Capita[8])
```

GINI_NUTS2

Min. :0.03367 1st Qu.:0.07065 Median :0.09839 Mean :0.11800 3rd Qu.:0.15525 Max. :0.36569



`stat_bin()` using `bins = 30`. Pick better value with `binwidth`.

