

Praca Domowa 2

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Dla poprawiania ja wybrałem wykres *Gas prices for household consumers - biannual data* ze strony https://ec.europa.eu/eurostat/databrowser/view/nrg_pc_202/default/bar?lang=en

Na wykresie musiało być zmienione:

- 1) Osie, iż dla takiej liczby obiektów nie udaje się przedstawić dane w dość czytelny sposób pionowo
- 2) Usunąć z wykresu dane bez wartości, t.j. w przedstawieniu na wykresie braku danych nie ma sensu
- 3) Nie przedstawiać średnią jako jedną z kolumn, ale jako linie, odnośnie której jest prościej porównywać dane

Kod:

```
library(ggplot2)
```

```
library(dplyr)
```

```
library(tidytext)
```

```
library(forcats)
```

```
Country<-c("Luxembourg","Hungary","Netherlands","Austria","Poland",  
           "Romania","Slovenia","Slovakia","Sweden","Liechtenstein",  
           "NorthMakedonia","Serbia","Turkey","Moldova","Georgia",  
           "Belgium","Bulgaria","Czechia","Denmark","Germany",  
           "Estonia","Ireland","Spain","France","Croatia","Italy",  
           "Latvia","Lithuania")
```

```
Price <- c(0.0541,0.0240, 0.0463,  
0.0510,0.0380,0.0399,0.0415,0.0353,0.1358,0.0511,0.0483,  
0.031,0.0152,0.0435,0.0117,0.054,0.0639,0.0486,0.0677,0.0474,0.0587,0.0633,0.0849,0.056  
9,0.0318,0.0737,0.034,0.0309)
```

```
df<- data.frame(Country,Price)
```

```
df %>%
```

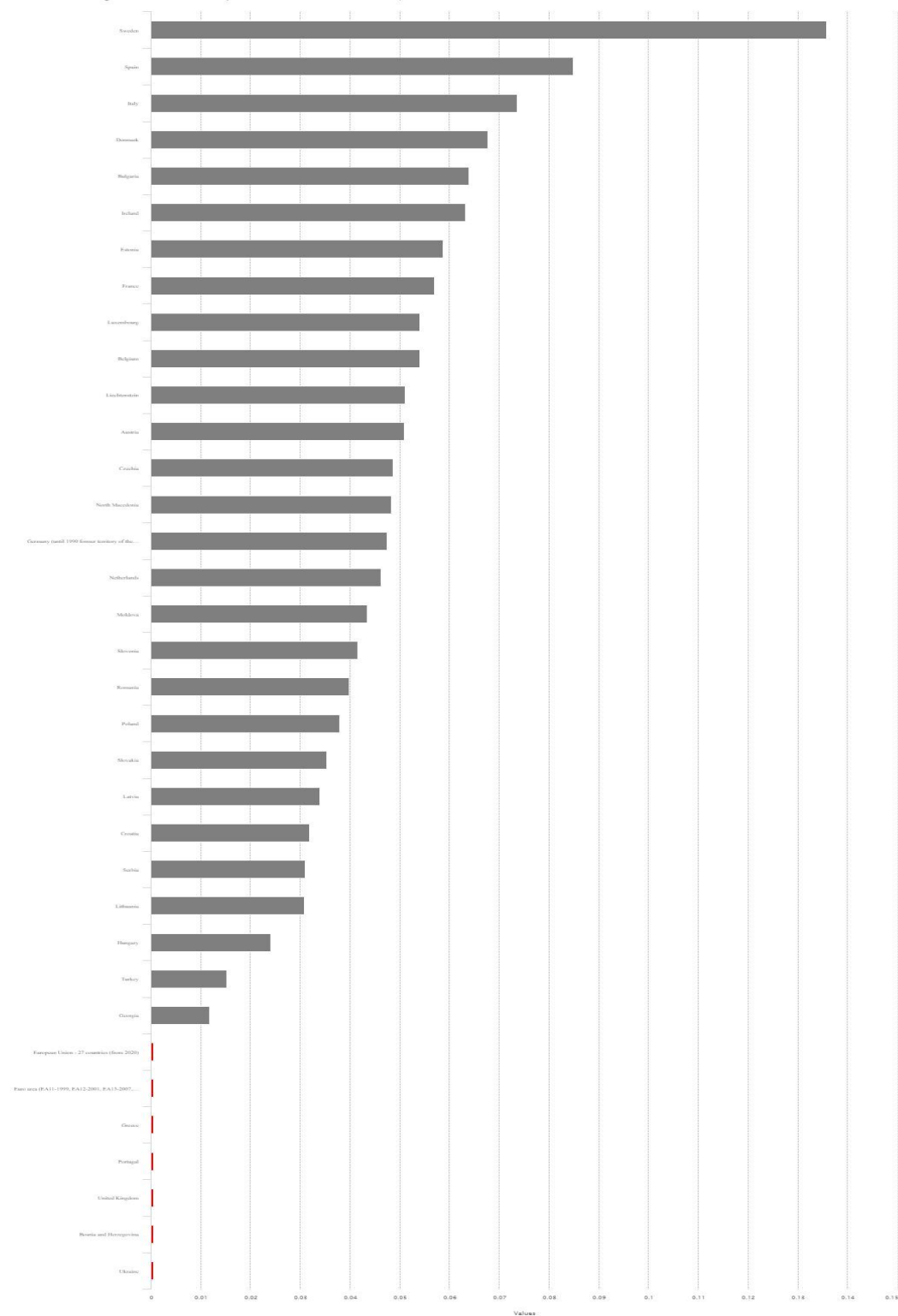
```
  ggplot(aes(y = Price,x = forcats::fct_reorder(Country,Price)))+
```

```
  geom_col()+
```

```
  geom_hline(yintercept = mean(Price), color="red")
```

Wykres oryginalny:

Gas prices for household consumers – bi-annual data (from 2007 onwards)
 Geopolitical entity (reporting) / Time Time frequency: Half-yearly, semesterly Products: Natural gas Consumption: Band D2 : 20 GJ < Consumption < 200 GJ Unit of measure: Kilowatt-hour Taxes: Excluding taxes and levies Currency: Euro. Values for 2021-52. Bars in red represent not available data..



Gas prices for household consumers – bi-annual data (from 2007 onwards)

Source of data: Eurostat (online data code: NRG_PC_202)

Last update 04/04/2022 23:00

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Wykres naprawiony:

