# Manipulating economic data in the `tidyverse`

EC 103—003

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# Welcome to Lab 3!

# This week

This week, we will keep working with the `tidyverse` functions we learned about last time, now applying it to **macroeconomic data**.

We will use the "gdp-data.csv" file, which can be found both in the course *GitHub* repository and on *theSpring.*

It contains data on GDP at purchasing power parity (PPP, 2017 US dollars) and total population for the United States, Japan, and South Africa, between 1990 and 2021, obtained from the World Bank.

# This week's data

```r
1  library(tidyverse)
2
3  macro_data <- read_csv("gdp-data.csv")
4
5  macro_data
```

```
# A tibble: 96 × 4
    year country       gdp_ppp population
   <dbl> <chr>           <dbl>      <dbl>
 1  1990 United States 1.01e13  249623000
 2  1991 United States 1.01e13  252981000
 3  1992 United States 1.04e13  256514000
 4  1993 United States 1.07e13  259919000
 5  1994 United States 1.12e13  263126000
 6  1995 United States 1.15e13  266278000
 7  1996 United States 1.19e13  269394000
 8  1997 United States 1.24e13  272657000
 9  1998 United States 1.3 e13  275854000
10  1999 United States 1.36e13  279040000
# … with 86 more rows
```

# This week's data

Now, we will resume our lab in RStudio.