

Introduction to R, RStudio, and the **tidyverse**

EC 103–03

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Welcome to our Lab Sessions!

What is R?

What is R?

R is an open source (i.e., *free!*) statistical/programming language that serves **multiple purposes**.

The purpose of using **R** in our course is to *manipulate* and *visualize* economic data.

If this will be your first experience with **coding**, welcome!

- We'll help each other out!

What is R?

R works by the users typing **functions**, which come from **packages**.

Packages only need to be installed **once** *per machine*.

This is done by using the `install.packages()` function:

```
install.packages("name of the desired package")
```

What is R?

And whenever we wish to use functions from a certain package, we first call the package using the `library()` function:

```
library(name of the desired package)
```

What is RStudio?

What is RStudio?

RStudio is the **IDE** (Integrated Development Environment) we will use to run the **R** language.

It is a very convenient space, where we can write our scripts, look up our data, and visualize it!

Now off to a little tour!

What is the **tidyverse**?

What is the **tidyverse**?

The **tidyverse** is a *metapackage* (i.e., a set of packages) that allows us to import, manipulate, and visualize data.

<https://www.tidyverse.org/>

What is the **tidyverse**?

Let us install it properly and play around with some of its functions now.

