

# Introduction to Tidyverse

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5/24/2022

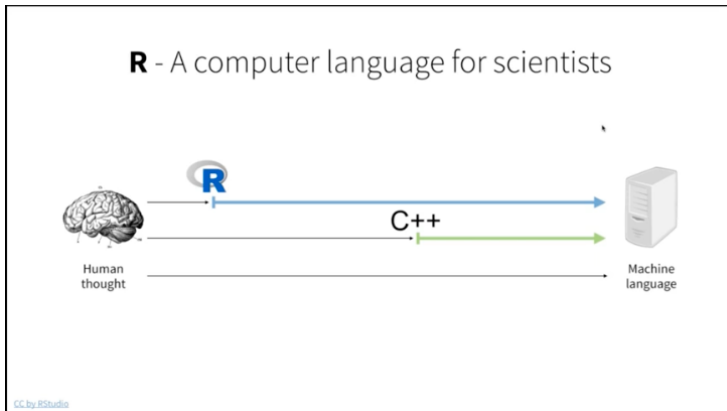
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## Section 1

### What is Tidyverse?

# What is R?

A program language!



Source: *RStudio*

# Then, what is Tidyverse?



- A collection of R packages
- Support natural workflow of data analysis
- Data import, tidying, manipulation, visualization, programming

# Load tidyverse

```
#install.packages(tidyverse)  
library("tidyverse")
```

## Section 2

### Base R versus tidyverse syntax

# Base R versus tidyverse syntax

## Base R syntax

```
UNpop <- read.csv("data/UNpop.csv")  
class(UNpop)  
head(UNpop)
```

```
UNpop$world.pop # access individual variable  
UNpop[, "world.pop"] # extract the column "world.pop"  
UNpop[1:3, "year"] # subset first three rows of year
```

## tidyverse syntax

```
UNpop.tidy <- read_csv("data/UNpop.csv")  
class(UNpop.tidy)  
glimpse(UNpop.tidy)
```

```
select(UNpop.tidy, world.pop) # extracting the world.pop variable  
UNpop.tidy %>% # subset the first three rows of years
```



## Section 3

### Summary

# Summary

### Differences between Base R/tidyverse? - Base R: Lots of \$, [[]] -  
Tidyverse: %>% (Forward pipe operator)

### When to use Base R/tidyverse? - Combination of both