

# **16. Installing RStudio on your machine**

Principles of Data Science with R

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PSTAT 10



## Next we will see. . .

- How to work on your laptop without connecting to the PSTAT 10 Rstudio server.
- Install Rstudio locally.

## Rstudio on your local machine.

For each of the software below, choose the Windows/Mac installer according to your Operating System

Make sure you install the software in the order mentioned below.

1. LaTeX word processor and document markup language. You may choose any one of the three mentioned below. I, personally use TeXWorks
  - TeXWorks link for Mac and Windows or
  - MacTeX link for Mac (2.5GB)
  - MiKTeX link for Windows (176MB)
2. open source integrated development environment (IDE) for R: RStudio desktop link
  - On Macs, when prompted to install command line developer tools, select "Install"
  - On Windows, you should get a similar prompt.
  - *Make sure you follow the instructions and install R first before you install Rstudio.*

# Testing R Markdown

Once you have installed one LaTeX and R and Rstudio

1. Open RStudio locally on your machine and starting in the menu bar, go to *File -> New File -> R Markdown...*
2. If prompted to install any packages, say yes.
3. A document `Untitled1` should pop-up.
4. Give it an arbitrary title
5. Change `summary(cars)` in the first code block to `print("Hello world!")`
6. In that panel, click on *Knit HTML* or *Knit PDF*.
7. Give the file a name and save your Rmd file as `helloworld.Rmd`

An HTML/PDF document should pop-up in the Viewer tab.

In preparation for the worksheet, view these videos and resources

- Intro to Markdown (video)
- R Markdown with RStudio (video)
- R Markdown Cheatsheet

## For Worksheet corresponding to this lecture, you can now,

1. create a `PSTAT10_working_folder` directory on your local machine to store all your PSTAT10 files locally so that they will be easy to find.
2. In the `PSTAT10_working_folder`, create a `Worksheet_Local_Rstudio` directory to store files for this Worksheet that you will be working on.
3. Goto the class Rstudio server and access the Worksheet material:
  - 3.1 download the `Worksheet_Local_Rstudio` folder containing `Worksheet_Local_Rstudio.html` and `Images` folder to your local computer and save it in `PSTAT10_working_folder -> Worksheet_Local_Rstudio` folder you just created.
  - 3.2 The `Images` folder containing images to display the above `.html` properly
4. Follow instructions in `Worksheet_Local_Rstudio.html` and work on the local Rstudio instance you downloaded.
5. Stop by office hours if you need any help.