

17. Installing RStudio on your machine

Principles of Data Science with R

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PSTAT 10

Announcement

1. For lecture today, you'll install Rstudio on your local machine.
2. Use Rstudio you installed on your local machine to do worksheet 17 due Wednesday.
3. HW 7 is on the server now and will be due Thursday Dec 1 11:59pm(no extensions allowed)
4. Don't forget Quiz redo on 11/29 during class time - to boost your grade, make up for a missing quiz and review for the final exam.
5. No lecture/worksheet on Thursday/Monday due to Thanksgiving Holiday: - Make time for a short break with friends, family - you'll need it for the finals week!

4. **Collaborative Review** Sign up by clicking here

- Choose a topic and prepare a review sheet for that topic by Monday 11/28
- Starting Tuesday 11/29, you can comment on and add to review sheets you **didn't put together** while reviewing for the final
- During finals week, we'll release review sheet put together by our ULA team for you to check if you missed anything or just to get a fresh perspective while reviewing for the final.

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.

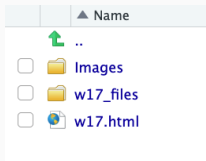
In preparation for the worksheet, view these videos and resources

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

Worksheet 17

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 `Worksheet17` directory to store files for `Worksheet17` that you will be working on.
3. Go to the class Rstudio server and access the `Worksheet 17` material:
 - An `.html` file containing the instructions for the worksheet
 - A `worksheet17-files` folder, containing supplemental files needed for the `.html` to display properly
 - An `Images` folder



4. Download the above files to your local computer and save them in the `PSTAT10_working_folder` -> `Worksheet17` folder you just created.
5. Work on `Worksheet 17` and submit it by Wednesday 11:59pm.