MATHEMATICS 23c/E-23c, Spring 2018

How to set up R Studio for Math 23c scripts

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Do this installation and setup at the first opportunity, so that your laptop will be set up properly!

1. Use the links on the main page of the course website to install R and RStudio.

2. Create a folder for Math 23c on your laptop.
   I use C:\Courses\M23c-2018.

3. Create a subfolder named Scripts in your Math 23c folder.

4. Create a subfolder named Data in your Math 23c folder. You can download all the data files (.csv format) from the website into this folder and use it for data files that you create. Use Excel (or other spreadsheet program that can read .csv files) to look at Beerwings.csv.

5. Start up R Studio and select Tools...Global Options from the menu. Change the Default Working Directory to be the Data subfolder of your Math 156 folder. This way you can load and save data files without having to specify a full pathname.

6. While still in Global Options, Select Pane Layout. Check only Plots in the upper right pane. Check everything else for the lower right pane. Adjust the panes so the the upper right pane is square and about half the width of the screen.

7. To check that everything is working, open RStudio and execute the command

   ```
   > read.csv("Beerwings.csv")
   ```

   You should see the same rows and columns that you earlier saw in Excel.

   Also download the R scripts from the Week 1 page of the Web site into your Scripts folder. Each week there will be a new set of scripts for download. Although some of these will be posted long in advance, they are subject to last-minute revision.

8. When in R, go to Help $\rightarrow$ Manuals, and download "An Introduction to R." It's probably worth printing this document also. It's a pretty good language reference, although it includes many details that will not be needed for this course.

9. Try out some of the scripts that you downloaded from the R scripts page of the Web site.