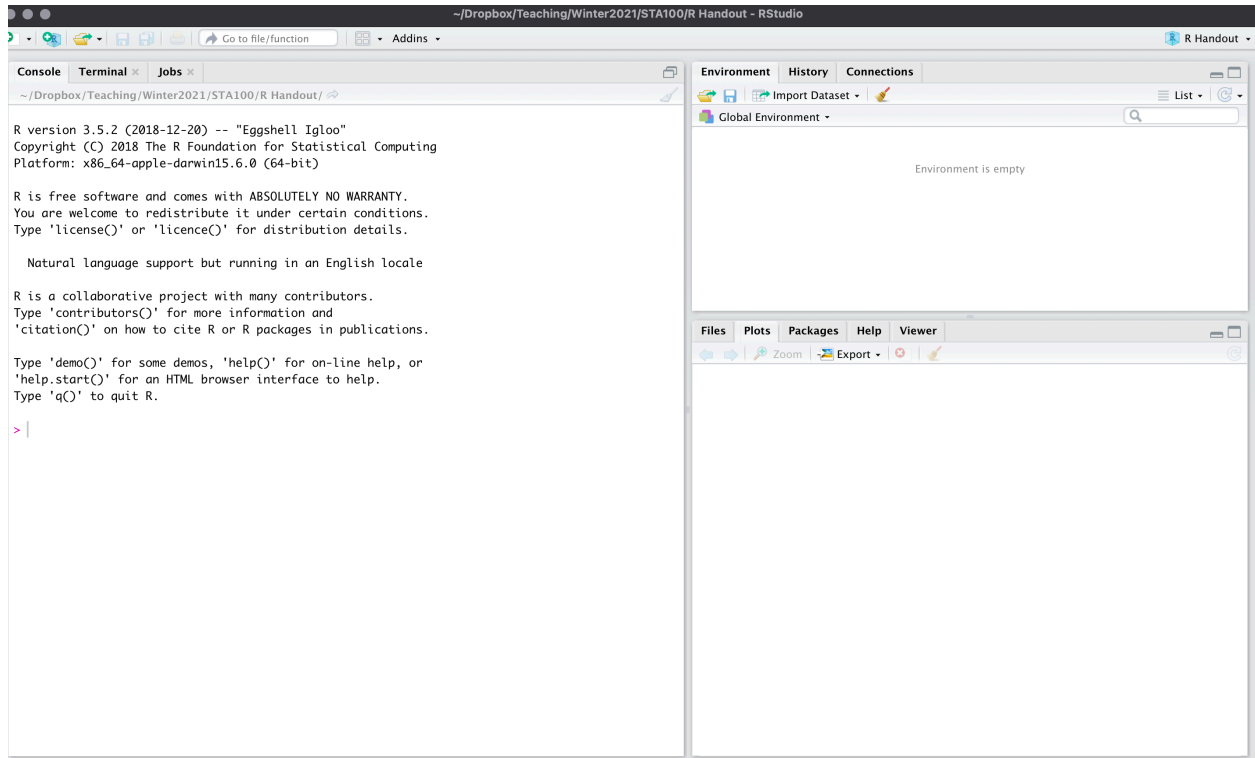


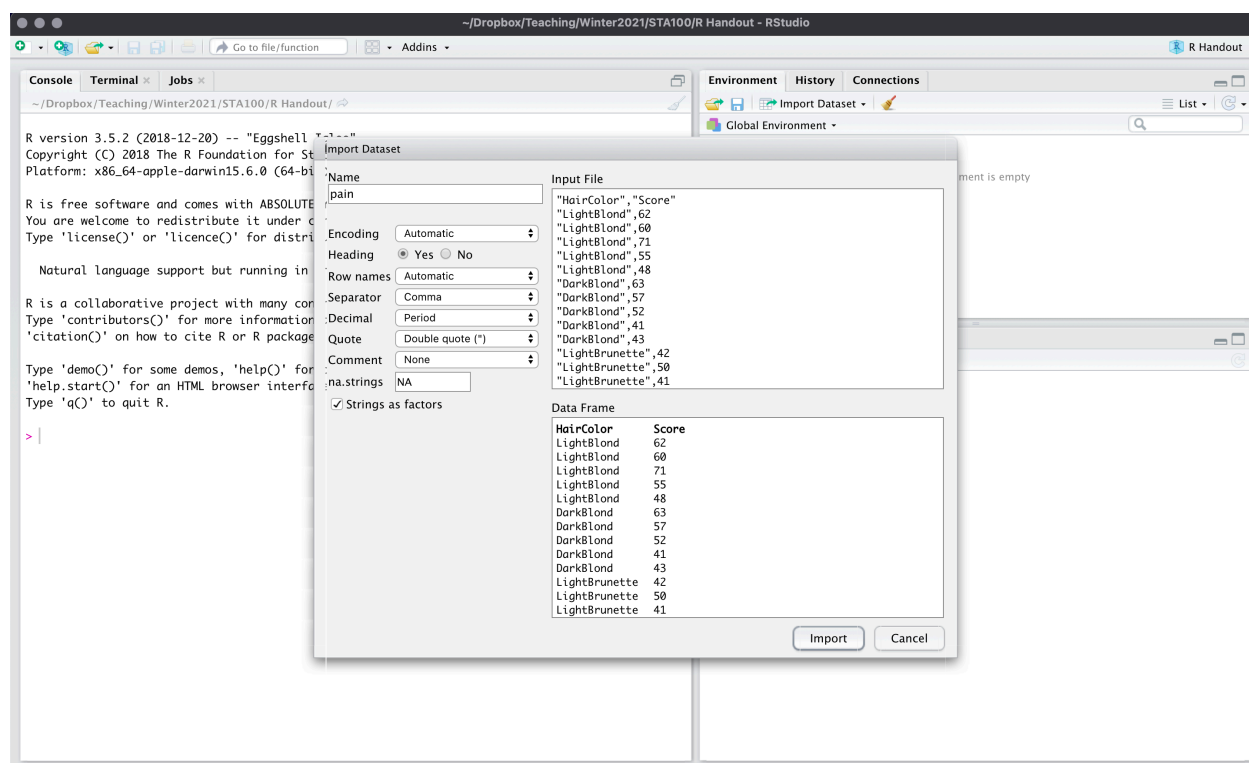
R Handout: Loading a Dataset into R

Once you have installed R and R studio, click on “File”, “New File”, “R Script”. This will open a .R file, where you can put your code that you want to run.

You should get a similar window to below. (assuming you have reordered your windows to match mine)



Now, click “Import Dataset” (in the environment window), and select “From Text (base)”. Browse to the folder where you downloaded the dataset, select it, and then hit open. You should see something like this (the dataset will change with what file you open):



Next, hit “Import”.

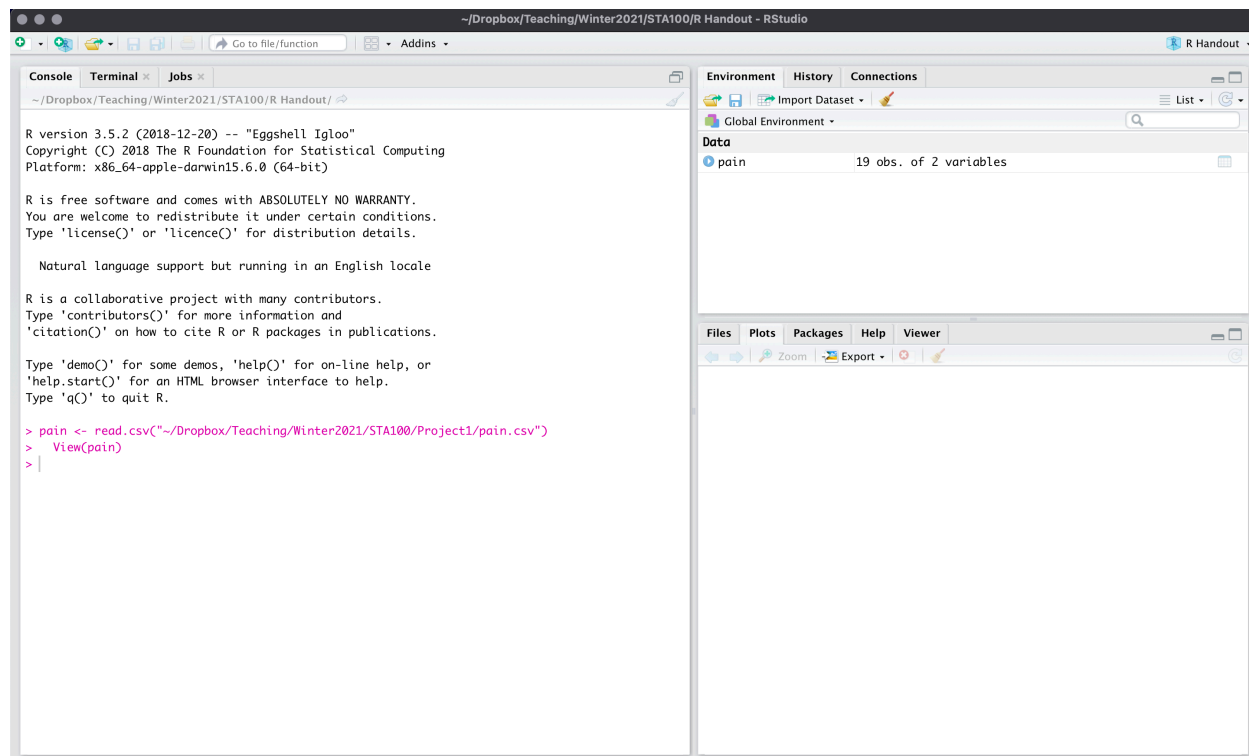
Your screen should now look something like this:

The screenshot shows the RStudio interface. The top-left pane displays a data table with two columns: HairColor and Score. The table contains 13 rows of data. The top-right pane shows the Environment window with a data object named 'pain' containing 19 observations and 2 variables. The bottom-left pane shows the Console window with R help text and code.

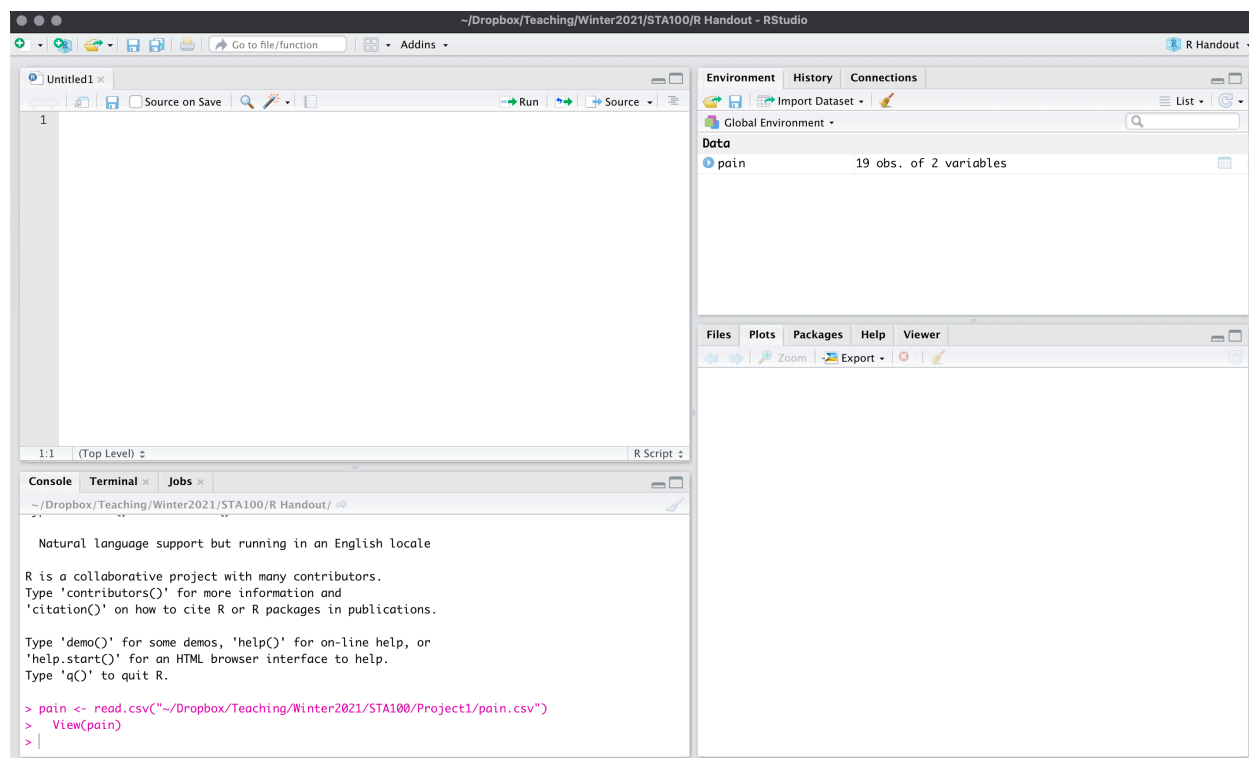
	HairColor	Score
1	LightBlond	62
2	LightBlond	60
3	LightBlond	71
4	LightBlond	55
5	LightBlond	48
6	DarkBlond	63
7	DarkBlond	57
8	DarkBlond	52
9	DarkBlond	41
10	DarkBlond	43
11	LightBrunette	42
12	LightBrunette	50
13	LightBrunette	41

```
~/Dropbox/Teaching/Winter2021/STA100/R Handout/ ↵  
  
Natural language support but running in an English locale  
  
R is a collaborative project with many contributors.  
Type 'contributors()' for more information and  
'citation()' on how to cite R or R packages in publications.  
  
Type 'demo()' for some demos, 'help()' for on-line help, or  
'help.start()' for an HTML browser interface to help.  
Type 'q()' to quit R.  
  
> pain <- read.csv("~/Dropbox/Teaching/Winter2021/STA100/Project1/pain.csv")  
> View(pain)  
> |
```

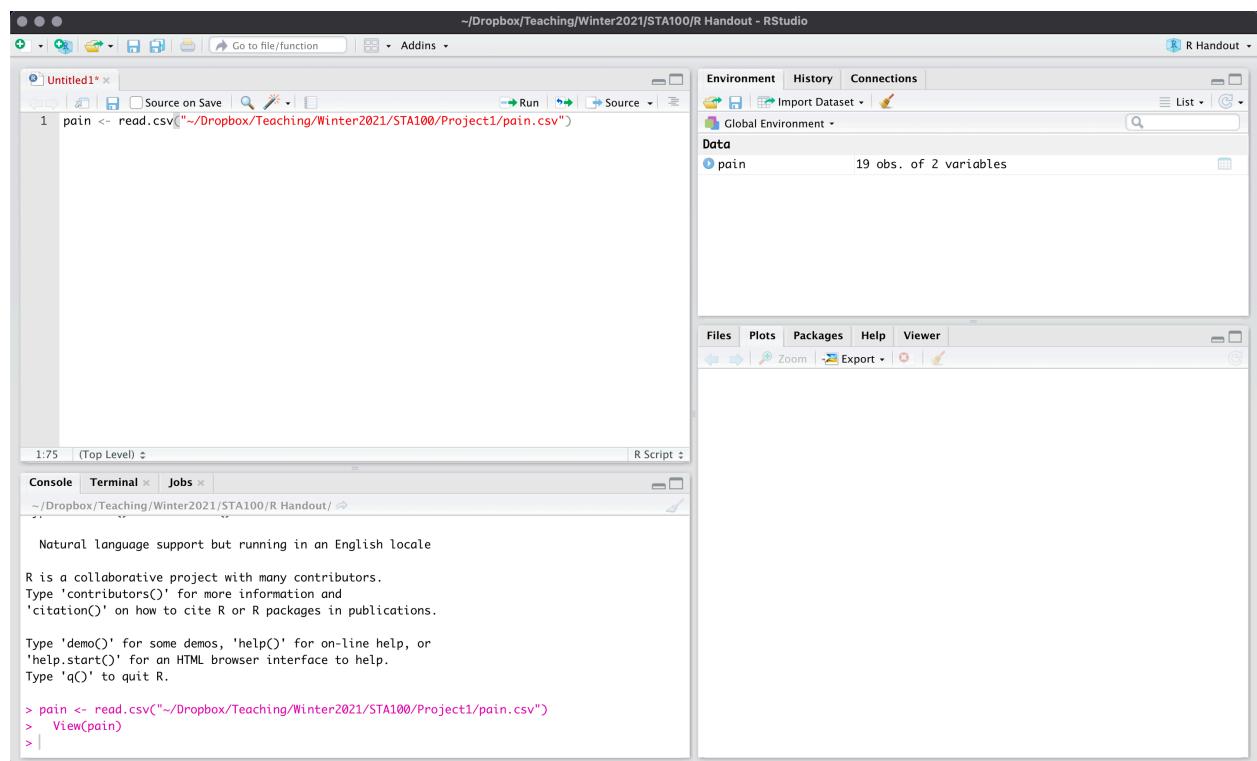
Notice this opened a tab that says “pain”, or in general the name of your dataset. This simply displays the format of the data, so we may go ahead and close that by pressing the “x” button next to the name. Now your window should look like this:



Next, we want to open a new R script to copy and paste code into. To do that, click “File”, “New File”, “R Script” Your window should now look like this:



I highly recommend copying and pasting the command R used to load the data into the R script window. This allows you to load in the data without going to the dropdown menu, and is useful if you use this code again. You want to select everything starting from the name of the dataset (in this case, pain) to the end of that line (be sure to remove the “>” sign):



This allows you to simply copy and paste those commands next time you run R, without having to use the dropdown menu. In other words, with these two commands, the first thing that your .R file will do is load the data. Then we can manipulate the data within R, and put all of our code on different lines on the .R file.

To save the .R file (and all your code), either hit “Ctrl + s” or “Command +s” on your keyboard (and save it with whatever name you like), or click “File” and “Save” from the dropdown menu.

Now, we want to put all of our commands in the .R file, on separate lines. To run a command and get the result in R, we can put our mouse on that line, and hit “Run” in the upper right hand corner, or “Ctrl + Enter” or “Command + Enter” on your keyboard.

For example, if I wanted the names of the columns, my .R file and console (after I have run the command) would look like:

