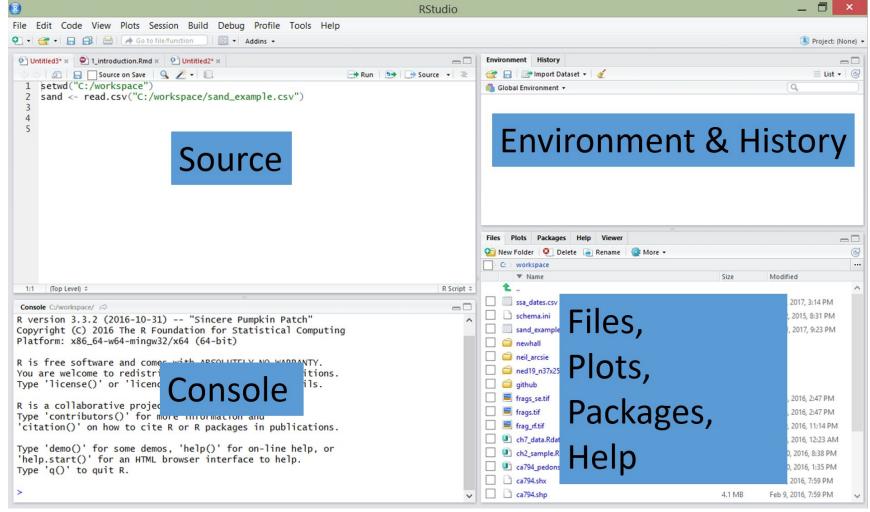
Introduction to R Studio

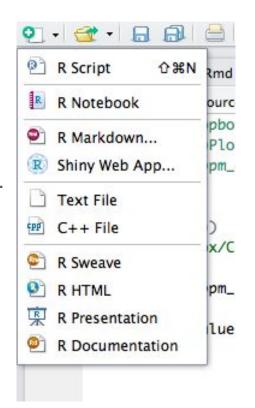


https://ncss-tech.github.io/stats for soil survey/chapters/1 introduction/1 introduction.html

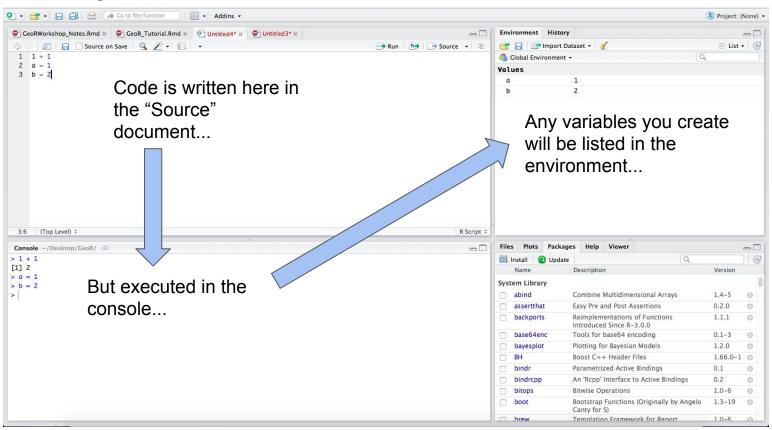
Writing Scripts in R Studio

R Studio Allows you to Create Scripts and other documents, most notably for this workshop are the **R Scripts** and **R Markdown** documents.

All Scripts and R Documents will show up in the Source Panel.



Executing Code



Running Code...

You can run code from a script with the "run" button or by clicking command Enter on your keyboard.

```
ch1_prez.Rmd *
               Untitled3* ×
                            Untitled4 *
                                                                       -E
              Source on Save
                                                  Run 🐤 Source 🕶
     setwd("C:/workspace")
                                                      Run the current line
     getwd()
                                                      or selection (Ctrl
     sand <- read.csv("sand_example.csv")</pre>
                                                      +Enter)
     hist(sand$sand)
     hist(sand$sand,
          main = "Histogram of Sand",
          xlab = "%".
 10
 11
          col = "gray"
 12
```

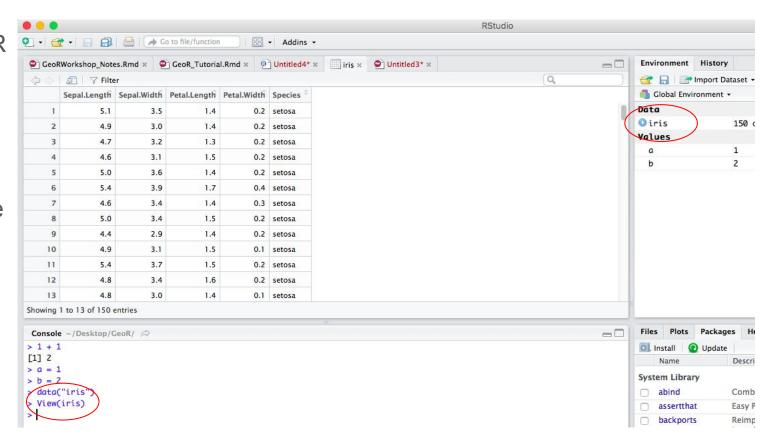
https://ncss-tech.github.io/stats_for_soil_survey/chapters/1_introduction/1_introduction.html

Executing Code

```
Console ~/Desktop/GeoR/ @
> 1 + 1
[1] 2
                You can also write and execute code directly in the
                console...
                BUT Note: this code will not be saved to a script!
```

Viewing Data

View data in R Studio using the "View()" function OR by simply clicking on the dataset in the **Environment** Panel...

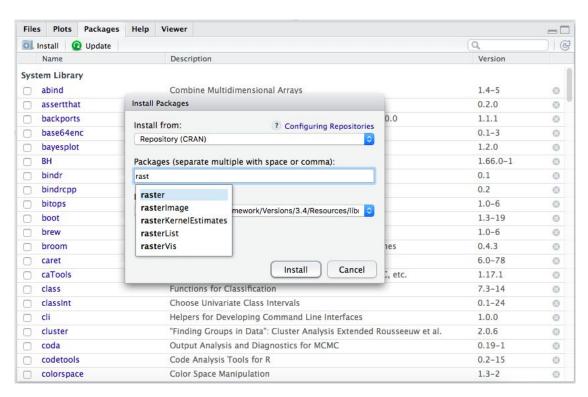


Installing Packages

Packages can be installed easily in R Studio under the "Packages" tab.



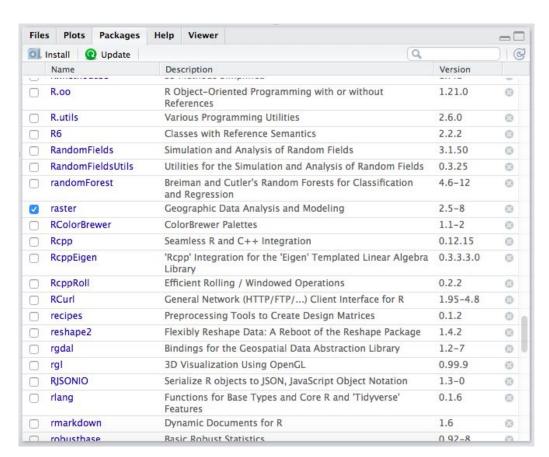
You can also manually install a package with the install.packages() function.



Loading Packages

Simply check the box for the package you want to load. This will automatically call the library() function to load in that package.

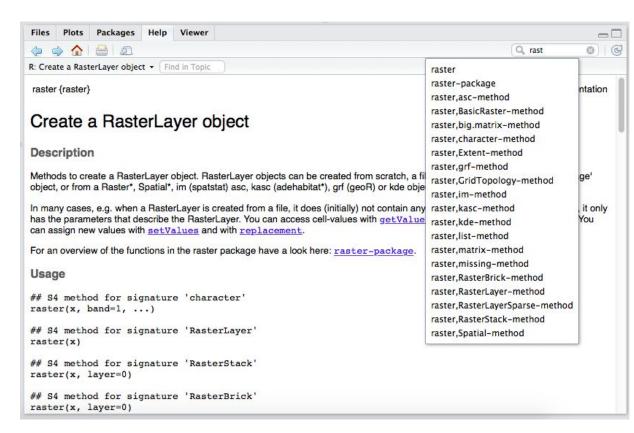
You can also simply use the library() or require() function in your script or directly in the console.



Getting Help

Help is just a few clicks away in R Studio. You can either type the function or package into the search bar, or use the "?" function...

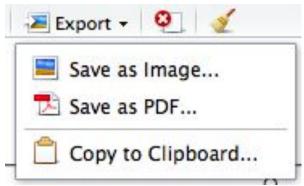
I.e. ?raster

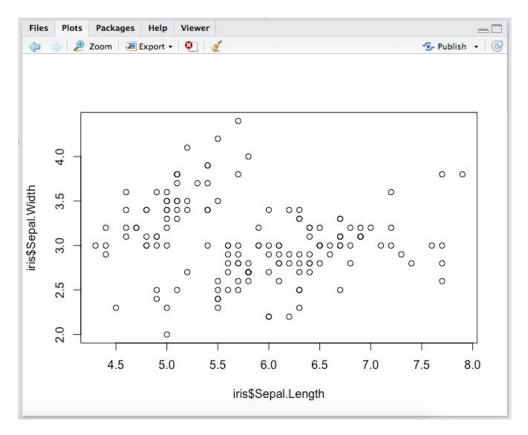


Viewing Plots in R Studio

Use the plot window to view and save plots in RStudio.







Demo Time!

Let's play with some data.