RStudio & R Notebooks Overview
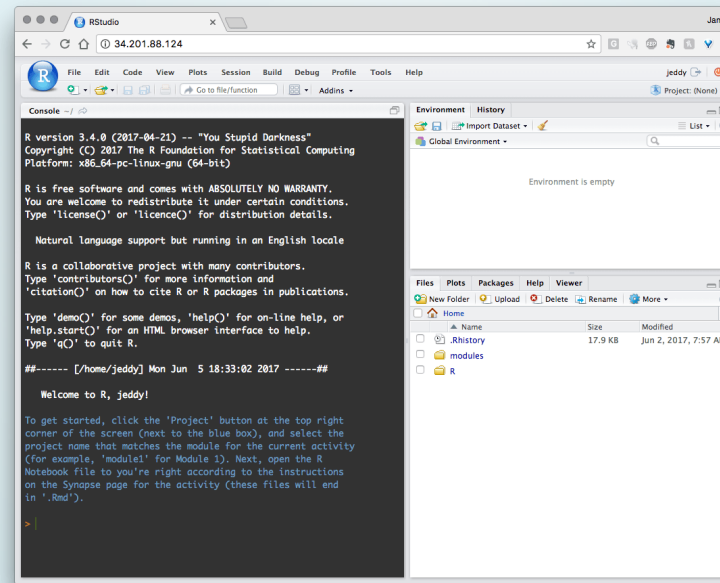
James Eddy — Sage Bionetworks
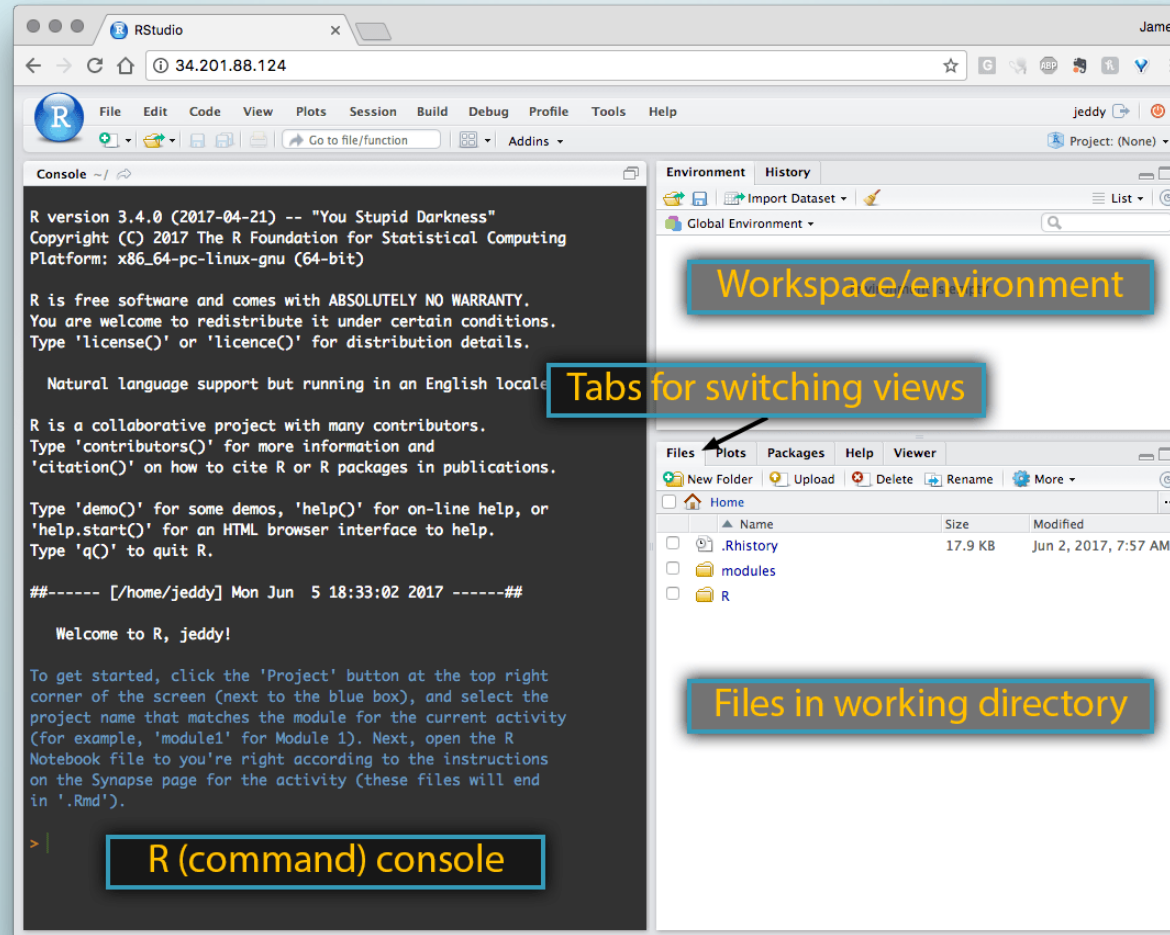
June 7, 2018

RStudio

What is RStudio?

- **RStudio** is an Integrated Development Environment (IDE): create, view, and explore code, variables, files, plots, etc. all in one application

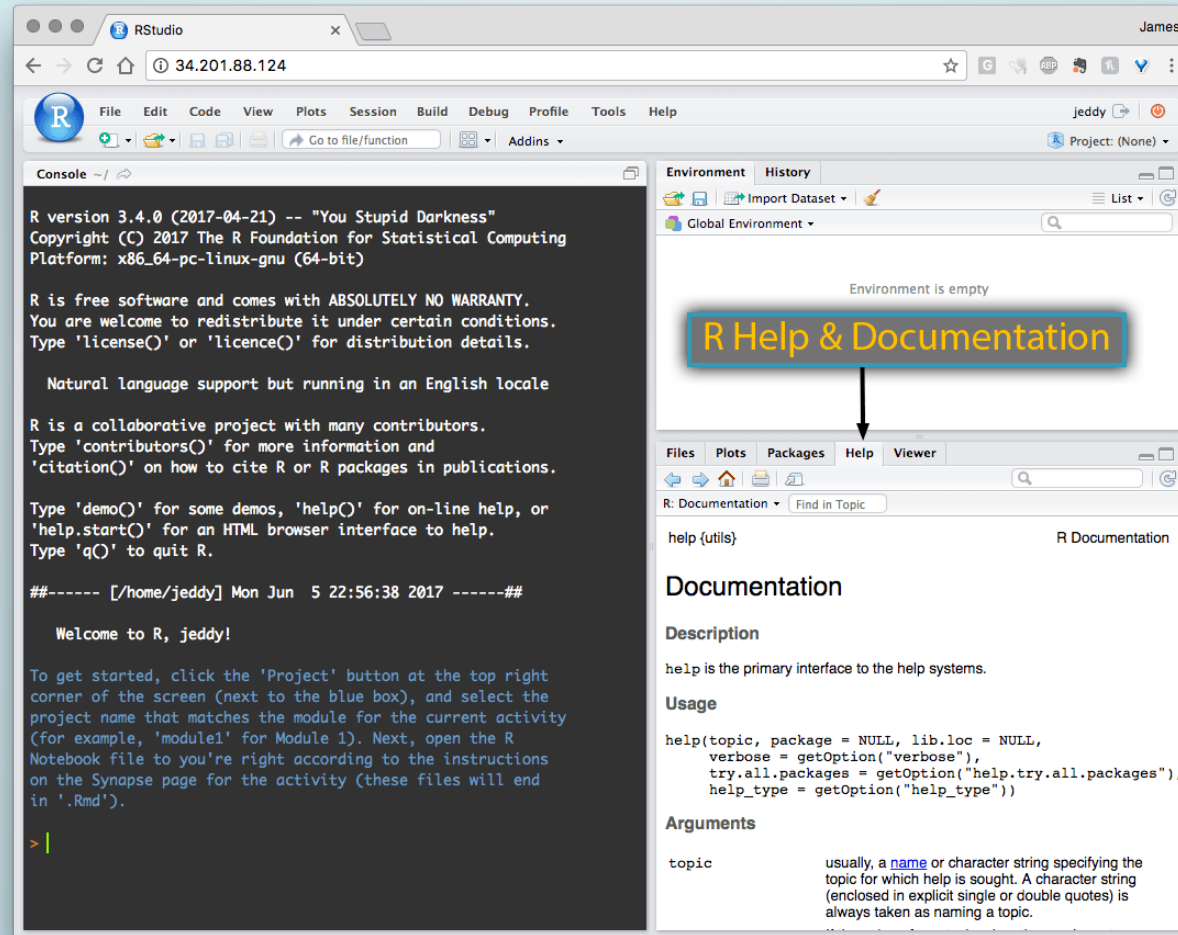- RStudio also provides lots of helpful features and packages that make writing R code easier

RStudio – Layout

When you start RStudio, you will get a view similar to what is shown below with perhaps slight differences.
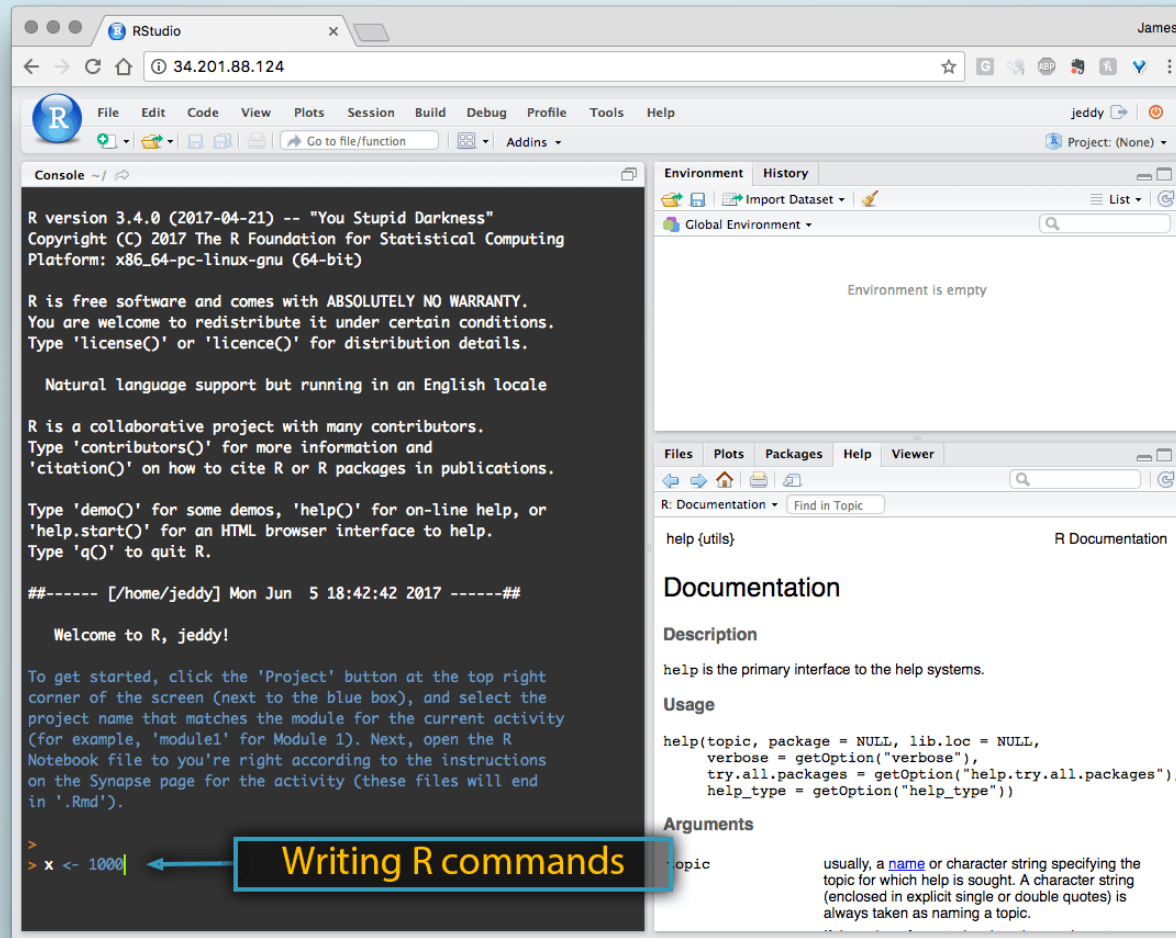
RStudio — Help

A lot of information is available in RStudio in the (searchable) help tab — feel free to investigate.
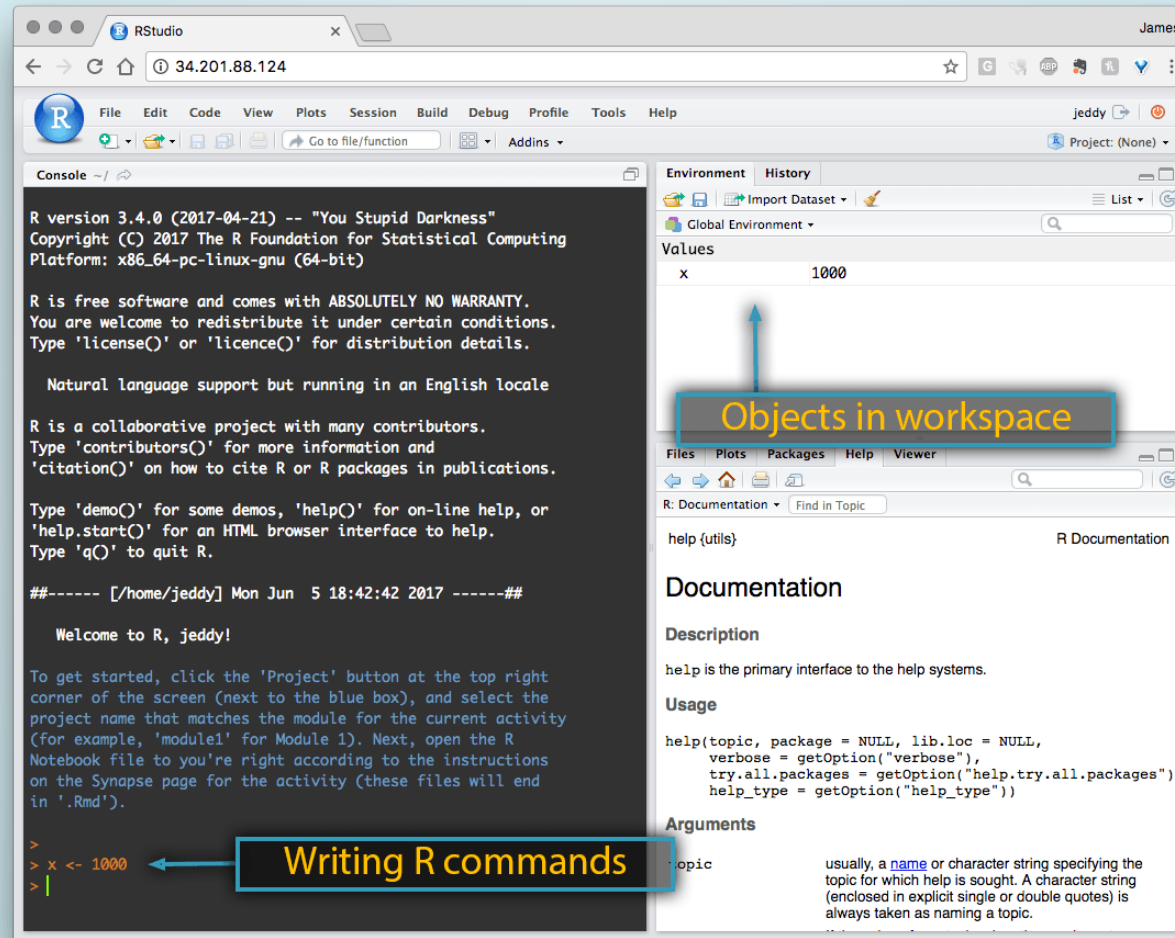
RStudio — Commands

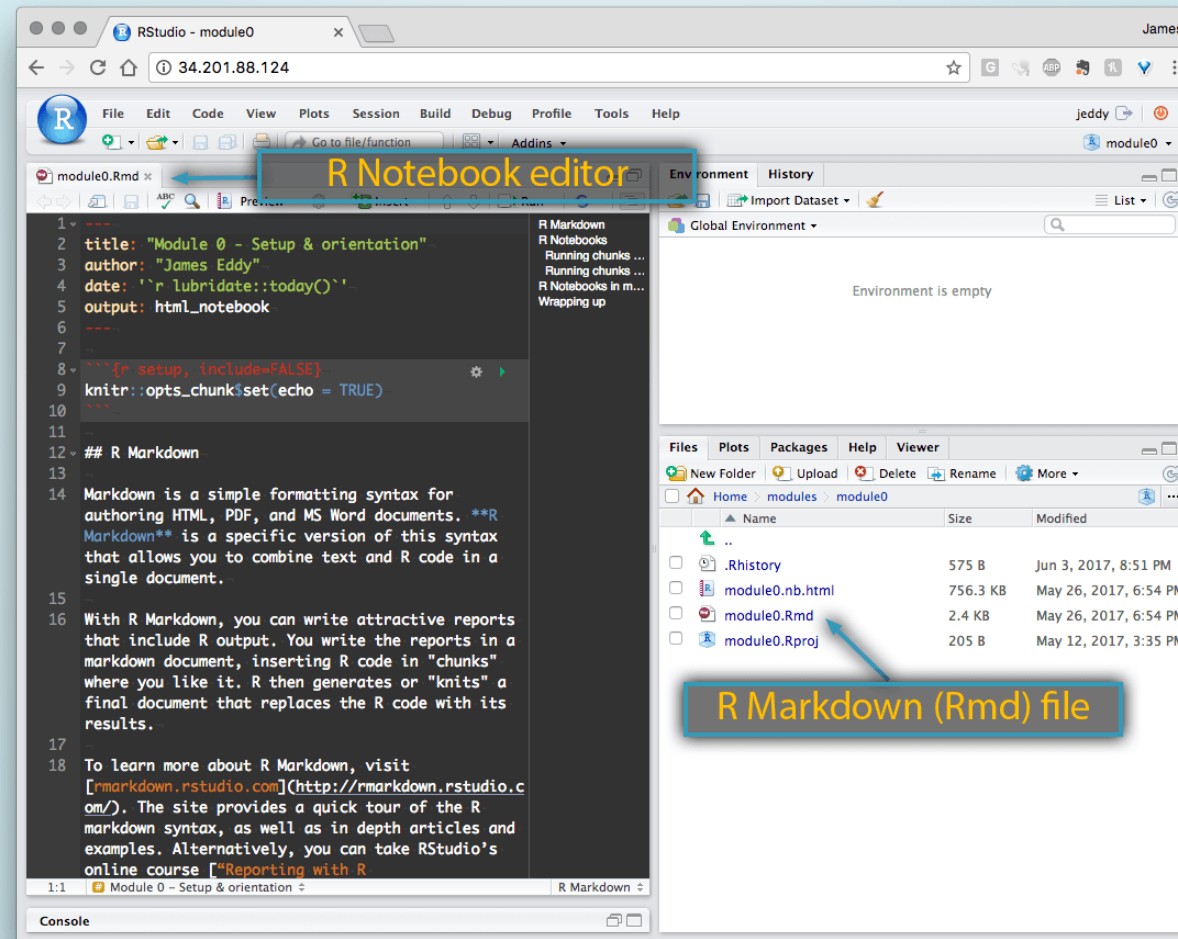You can type commands directly into the console.

RStudio – Workspace

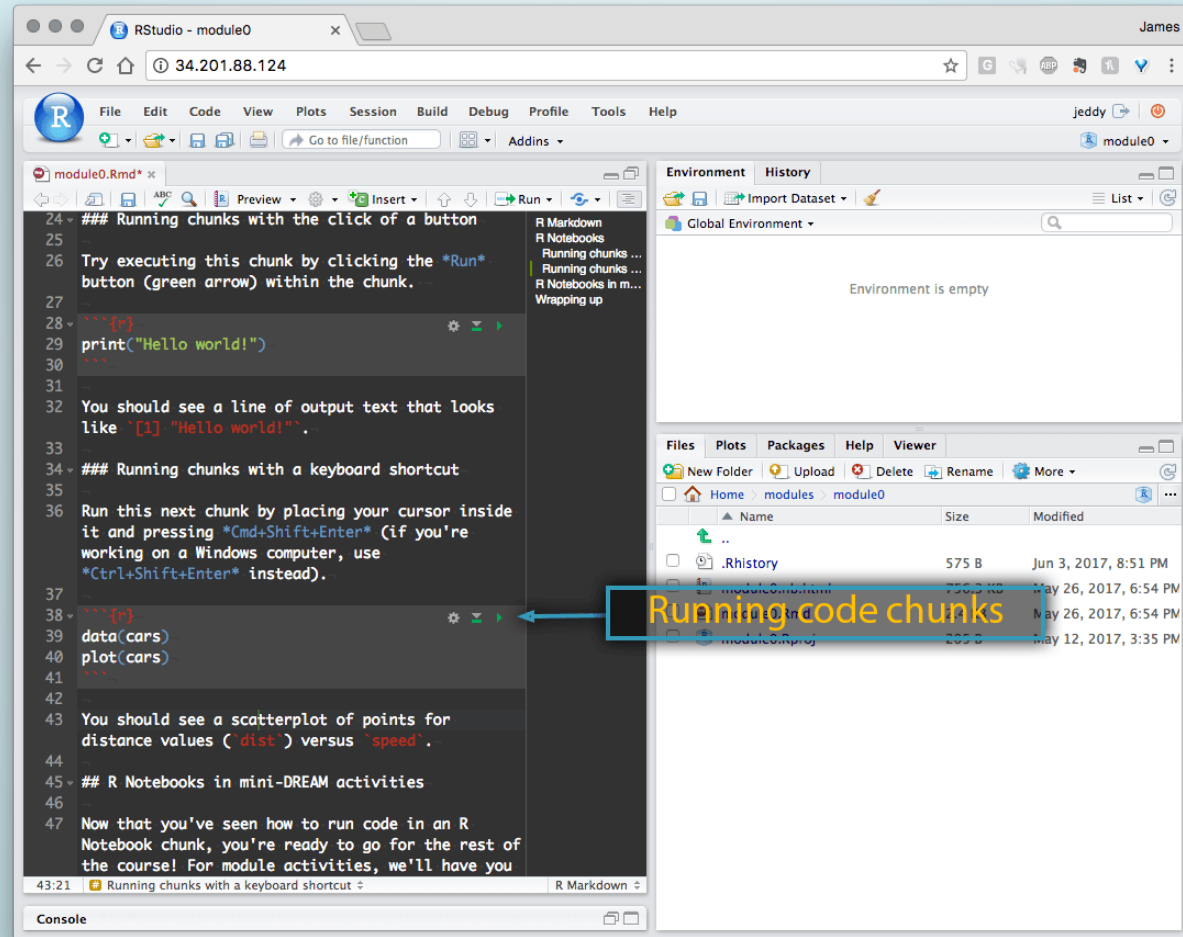Outputs will be saved in the current workspace.

RStudio – R Notebooks

mini-DREAM activities are based in **R Notebooks**, which have `.Rmd`
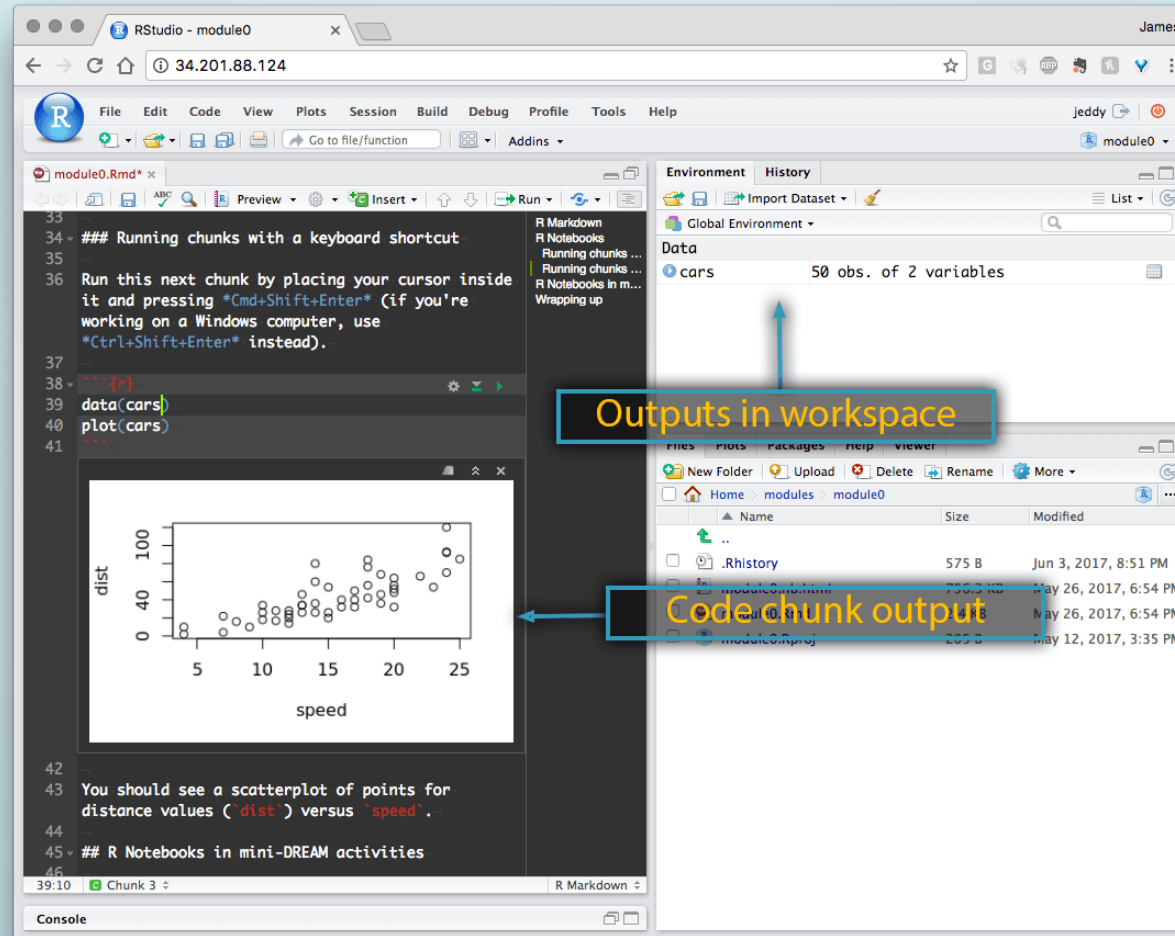… more on this in **Activity 0**.

RStudio – R Notebooks

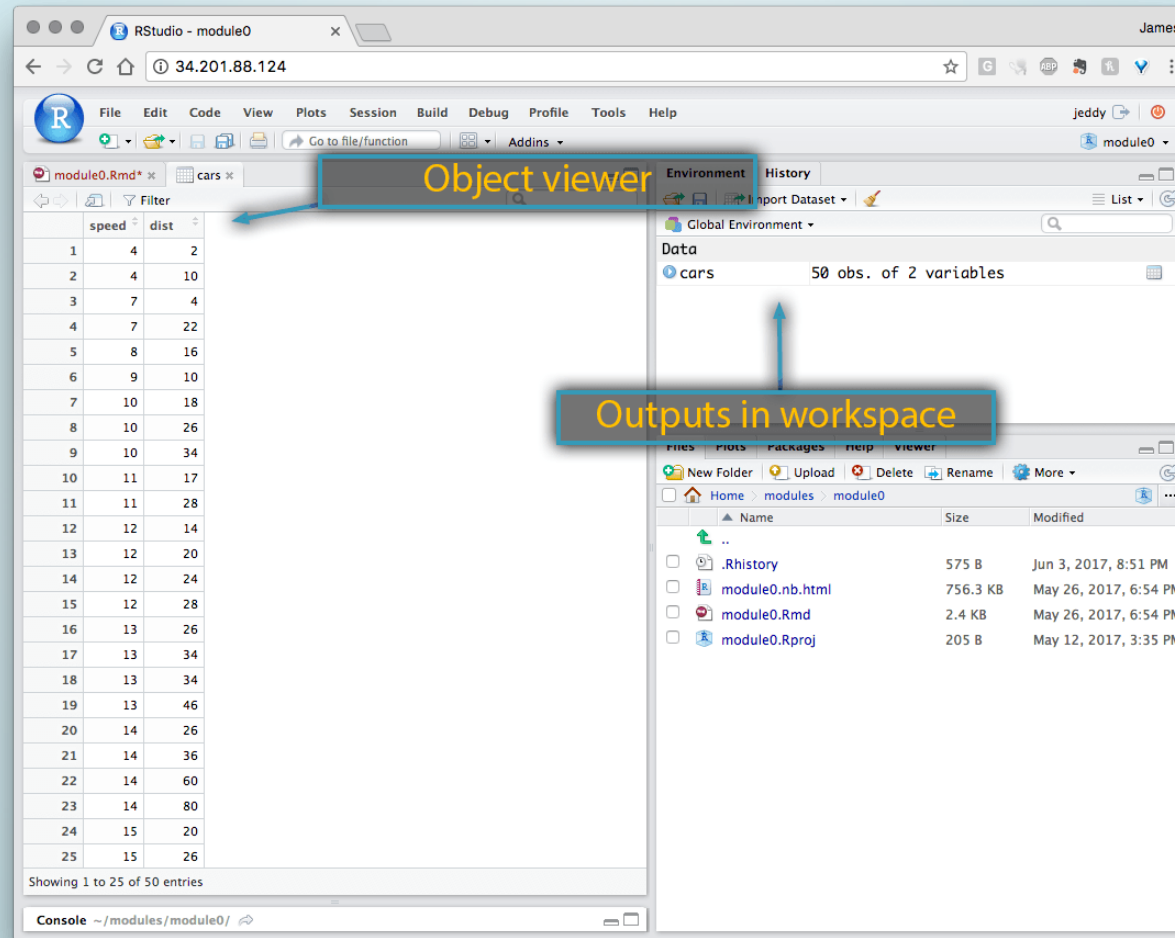For each activity, you'll read along and run sections of code in "chunks".

RStudio — R Notebooks

Output from each chunk will be displayed directly below the code, and saved in the workspace.

RStudio – R Notebooks

You can inspect the contents of outputs by clicking on object names.

What next?

Module 0 Activity

- Navigate to **Challenge Modules — Module 0** on the mini-DREAM Synapse site for more info:

  https://www.synapse.org/#!Synapse:syn12105406/wiki/527879

- Next week (Tues. 6/12 and Thurs. 6/14) — **Module 1** with Andrew Gentles:

  " *Programming and modeling for life sciences*