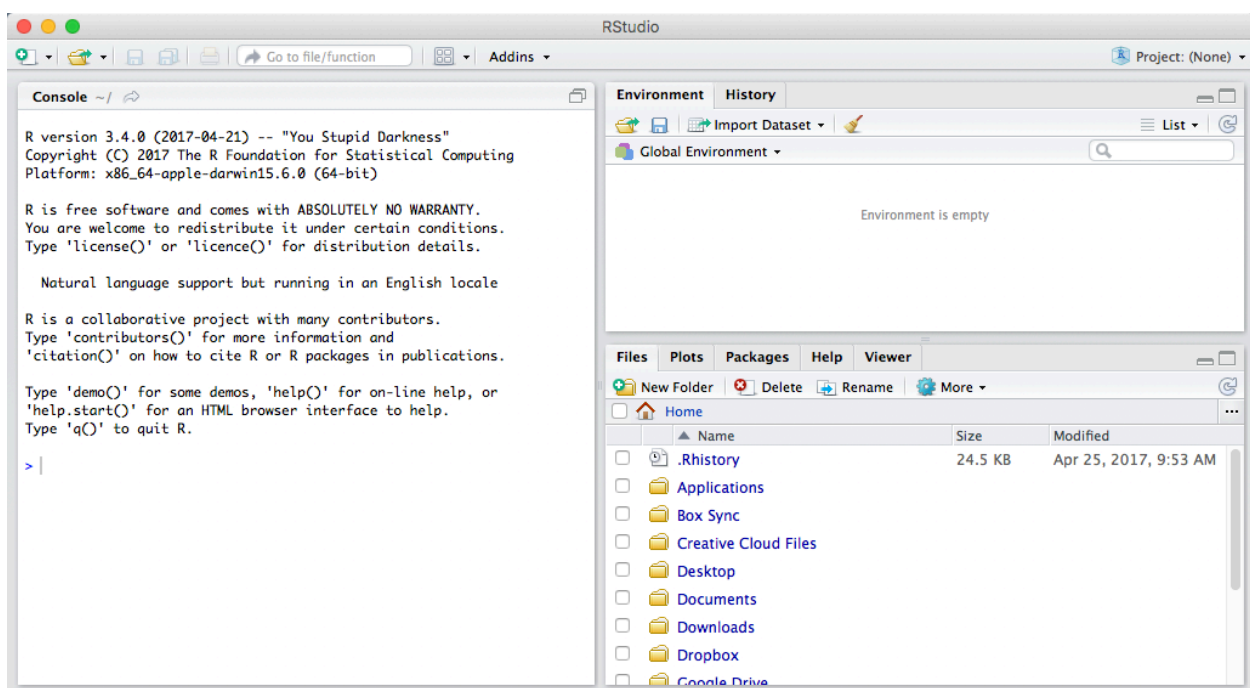


## Installation instructions for the R, R studio and required packages

- 1) Download and install the latest version of R (currently 3.4.0) for your platform [here](https://cran.r-project.org/) (https://cran.r-project.org/). Accept all default options during installation.
- 2) Download and install the latest version of Rstudio desktop (currently 1.0.143) for your platform [here](https://www.rstudio.com/products/rstudio/download/) (https://www.rstudio.com/products/rstudio/download/). Again, accept all default options during installation.
- 3) Now launch Rstudio. You should see a screen similar with this. Check that the text in the **Console** pane reads R version 3.4.0



- 4) (Optional) To be able to run the examples to be presented in the “Scalability” section, please also install the additional tools for building compiled R packages from source code.
  - a. On Windows: Install “Rtools” from [here](https://cran.r-project.org/bin/windows/Rtools/) (https://cran.r-project.org/bin/windows/Rtools/).
  - b. On Mac: Install Xcode developer tools. There are several ways to do this:
    - i. The easiest way to do this is to install Xcode from the App Store. However, Xcode is a large download, so this may take some time depending on your connection.
    - ii. Install the Command Line Tools from the Apple Developer website [here](https://developer.apple.com/download/) (https://developer.apple.com/download).

- iii. Follow the instructions [here](http://osxdaily.com/2014/02/12/install-command-line-tools-mac-os-x/) to install from the Terminal  
(<http://osxdaily.com/2014/02/12/install-command-line-tools-mac-os-x/>)

5) Finally, install required packages. To do so: Rstudio through the **File > Open File...** > select the attached R script, '**Install required packages\_P4-AdvR.R**'. Press the '**Source**' button in the top right corner of the script pane (as captures below). If all packages are installed, '**ALL PACKAGES ARE INSTALLED, WE'RE GOOD TO GO!**' will be shown in 'Console' (top left corner).

