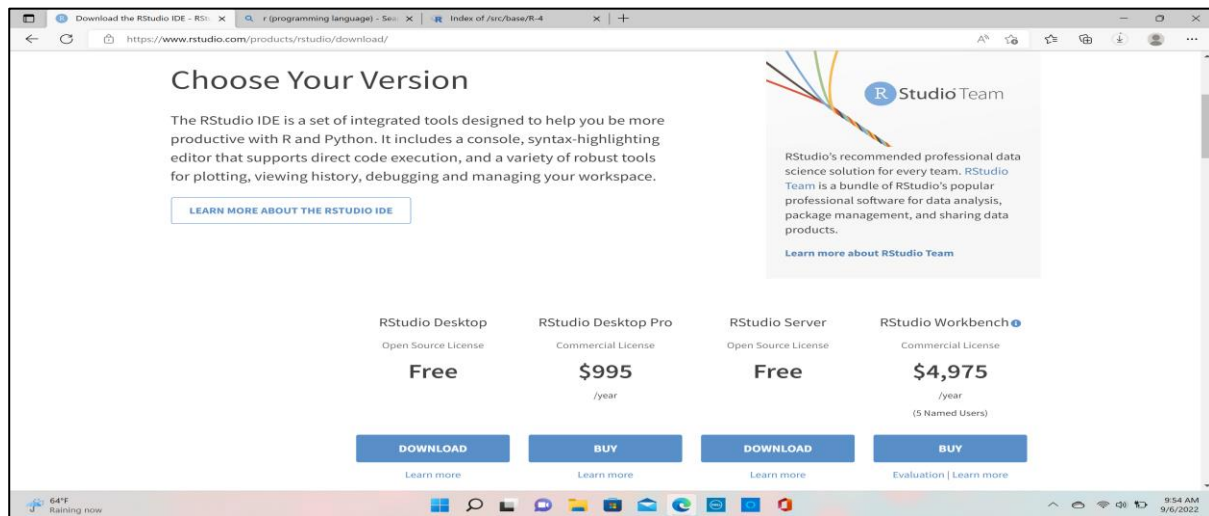
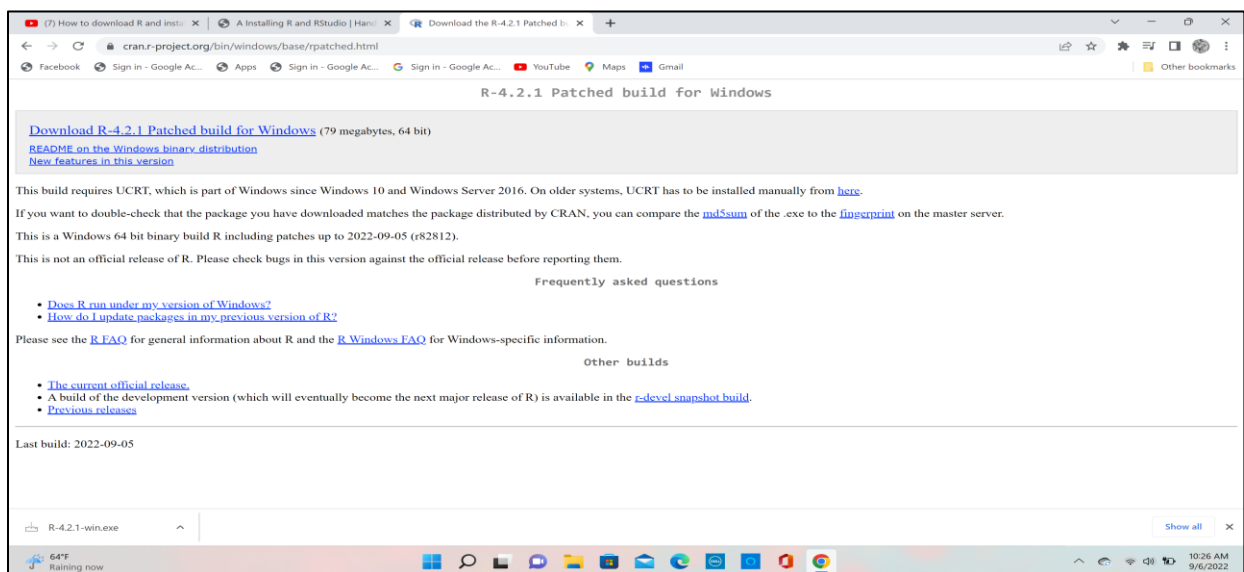


R and RStudio Download and Installation

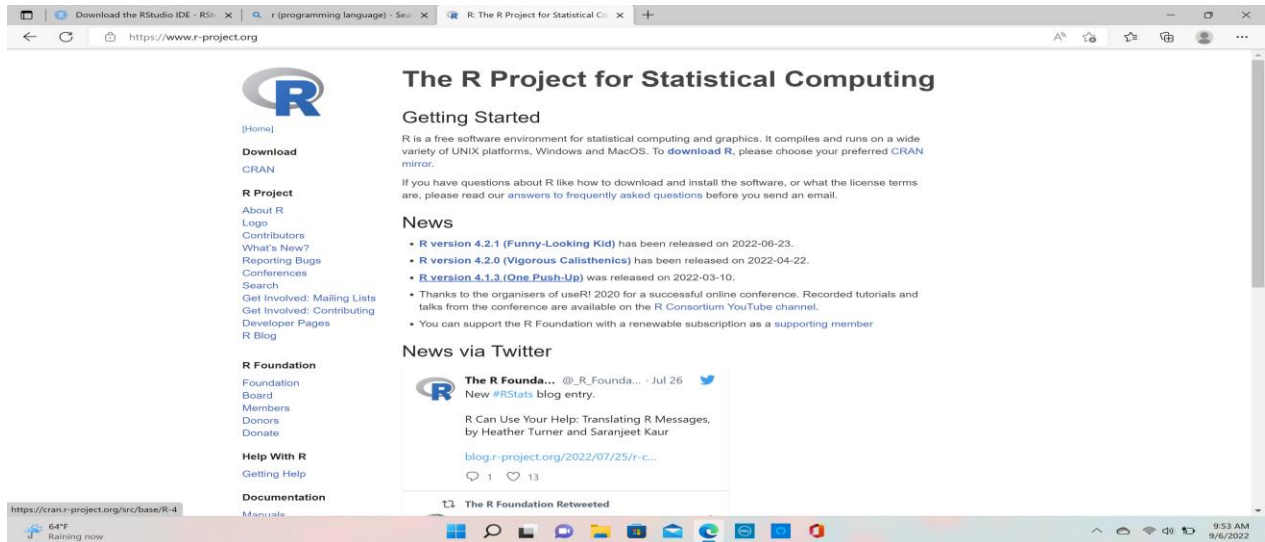
This picture depicts how to download R as well as RStudio, a software application that makes R easier to use. Both R and RStudio are free to download. RStudio is an application like Microsoft Word except that instead of helping you write in English, it helps you write in R. The RStudio interface looks the same for Windows, Mac OS, and Linux.



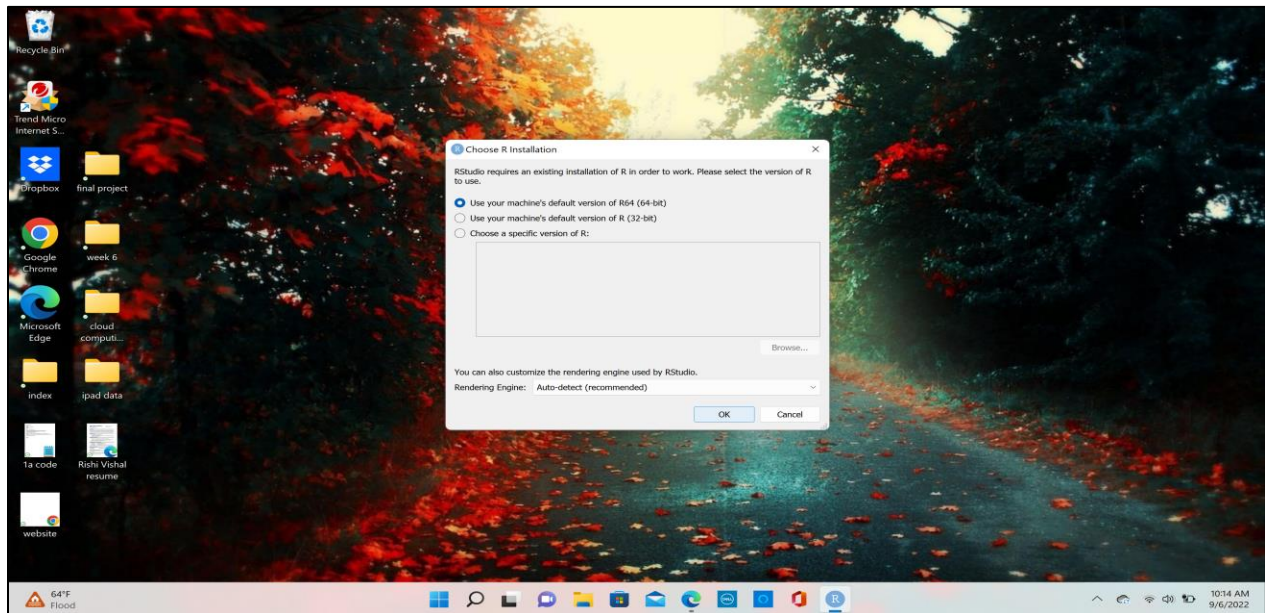
R is maintained by an international team of developers who make the language available throughout the world by website <https://cran.r-project.org/bin/windows/base/rpatched.html>



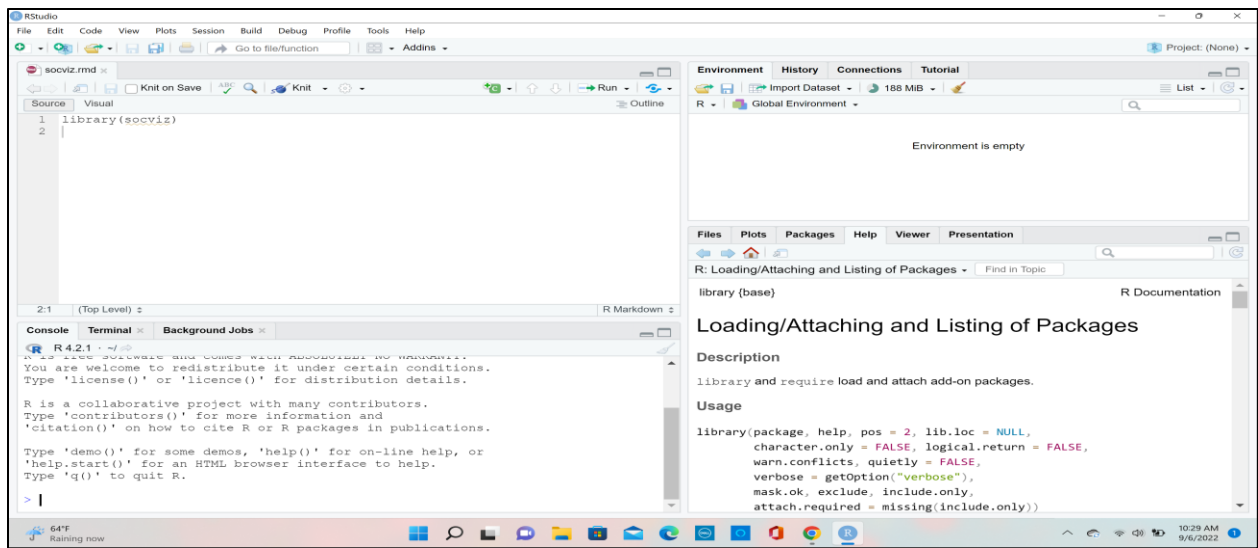
To install R on Windows, click the “cloud.r-project.org” link. Then click the “base” link. Next, click the first link at the top of the new page. This link should say something like “Download R 4.2.1 for Windows,” which installs the most up-to-date version of R for Windows. Run this program and step through the installation wizard that appears. The wizard will install R into your program files folders and place a shortcut in your Start menu.



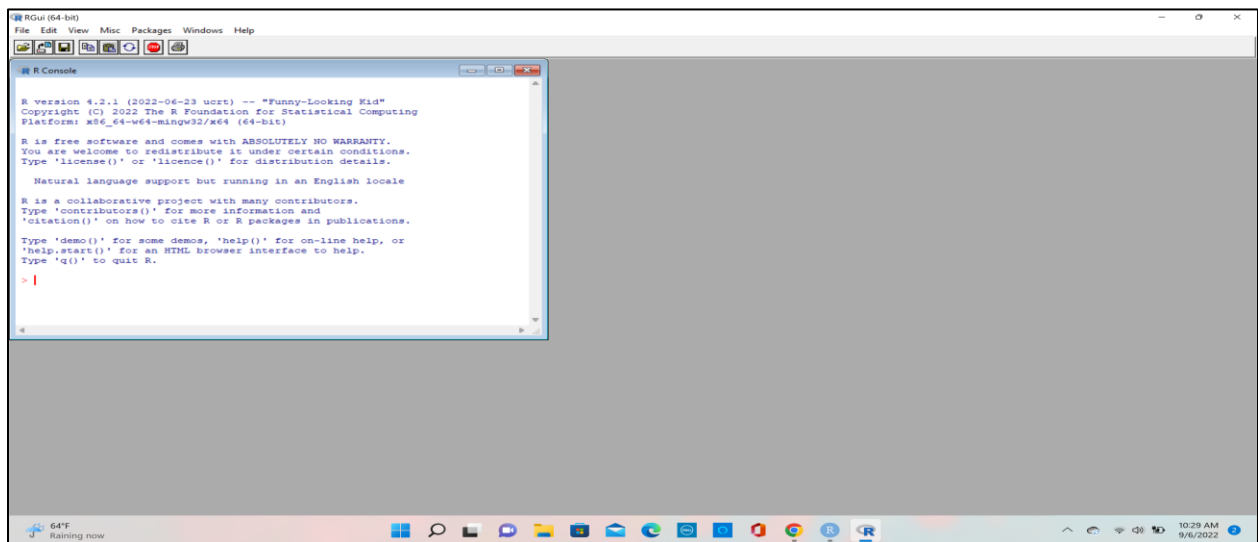
After installing both R and RStudio you need to install and run the application while giving appropriate permissions to the application to change the system settings.



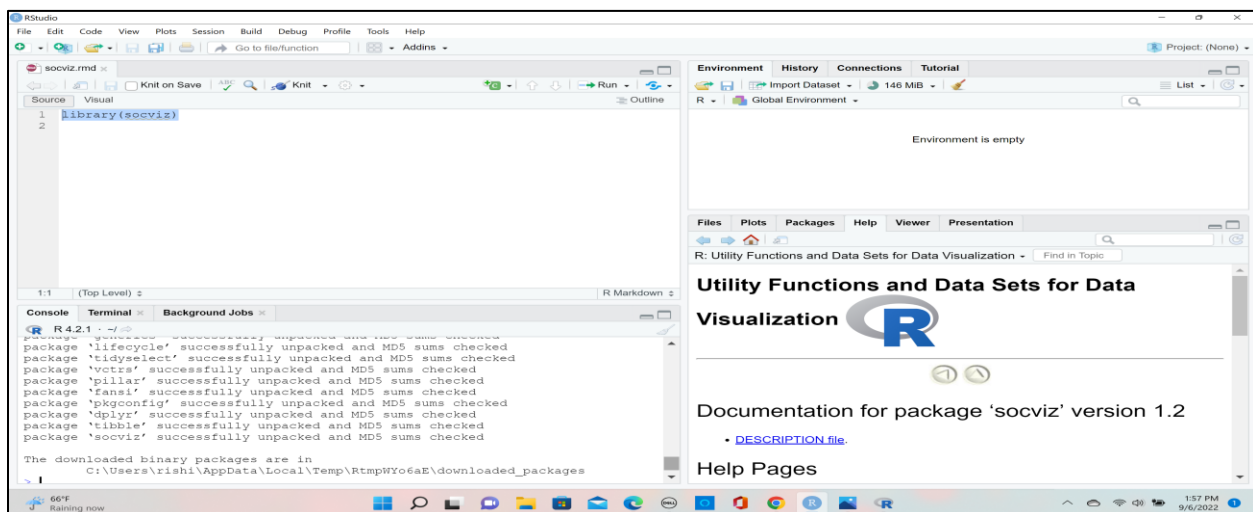
This is the interface that we see upon successful installation of RStudio.



This is the interface we can see upon successful installation of R.

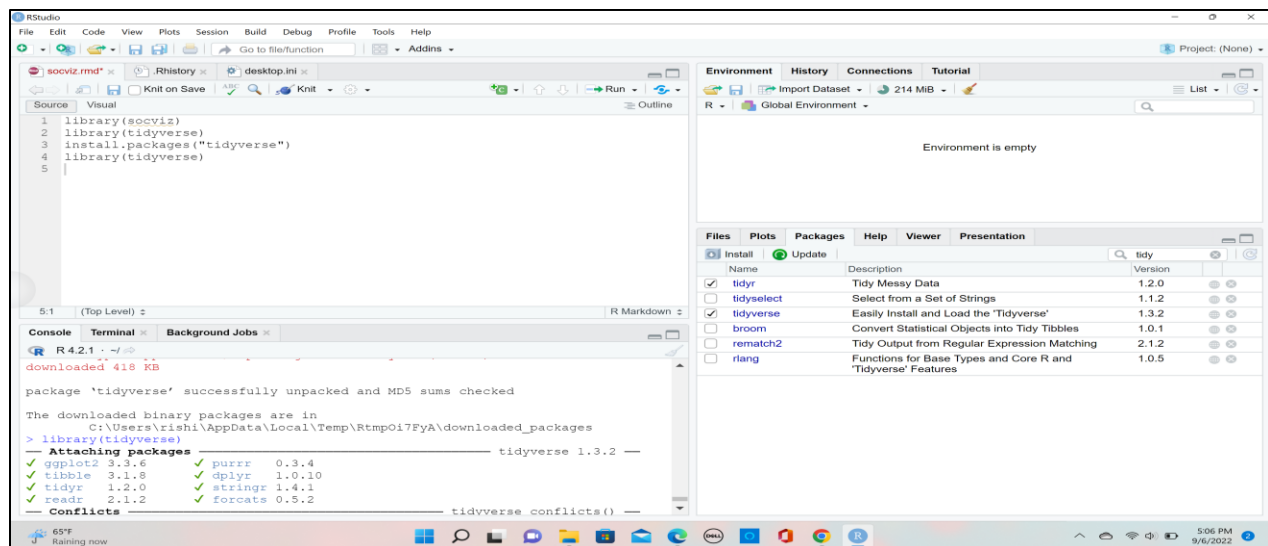


- There are four panels in RStudio namely- (Source) on the top left of the interface. Here you can write and save code scripts.
- Down to the left is Console, where you can see the results of the code. You can directly Run R codes in the console.
- The panel in the upper right is Environment panel, it shows the variables that are available.
- The bottom right panel is the misc. panel and contains five separate tabs. The first one, **Files**, is self-explanatory.
- The **Plots** tab will contain the graphs you generated with R. It's here that you can zoom, export, configure and inspect your charts and plots.
- The **Packages** tab lets you install additional packages into R.
- The **Help** tab lets you search the incredibly extensive help directory and will automatically open whenever you call help on a command in the console.
- Finally, the **Viewer** is essentially RStudio's Built in browser.



We can use the lower right panel where packages can be downloaded and installed

This is the (Tidy verse) packages that I downloaded from Kieran Healy's practical introduction.



I also installed all the packages that are mentioned in the practical introduction by kieran.

`install.packages(my_packages, repos = http://cran.rstudio.com)`

