

**SPPH567 Tutorial 1** 



You are welcome to use any other statistical software of your choice.

But support from instructor and TA will likely be limited – we can't possibly know all statistical software...

# The statistical tool we cover in tutorials is composed of three parts:



R is the actual software environment that all the data analysis is operated.



R Studio RStudio is an integrated development environment (IDE) for R.



**Deducer** is a Graphical User Interface (GUI) for R.

# They have different functions and features:



Fundamental but non-intuitive.



R Studio Makes programming easier.



Replaces programming with mouse clicks.

#### Check out the links for more information:



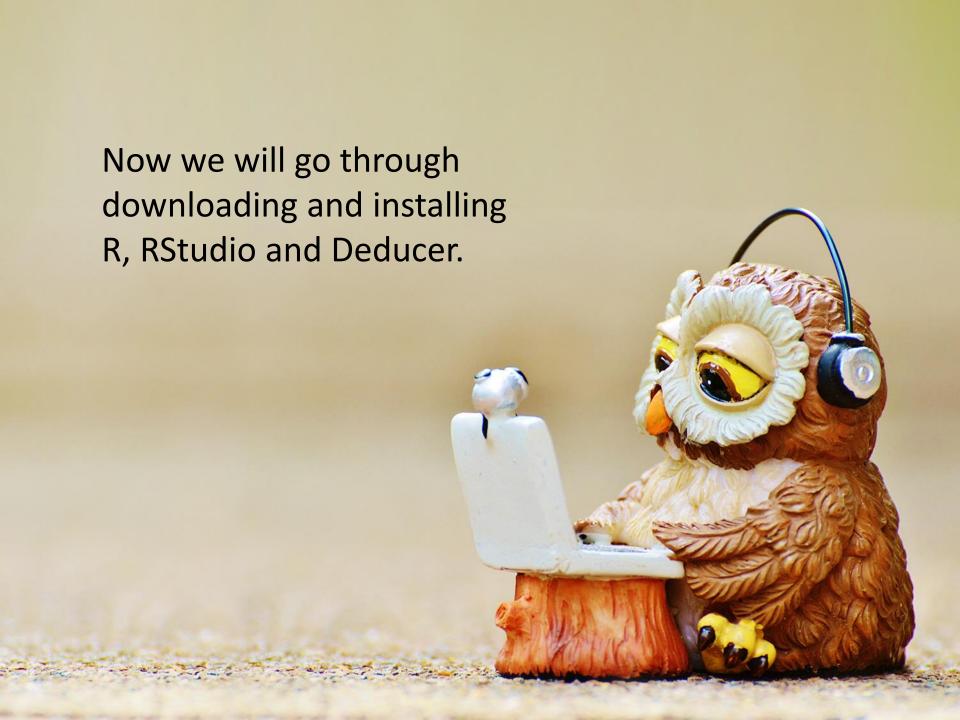
https://www.r-project.org/

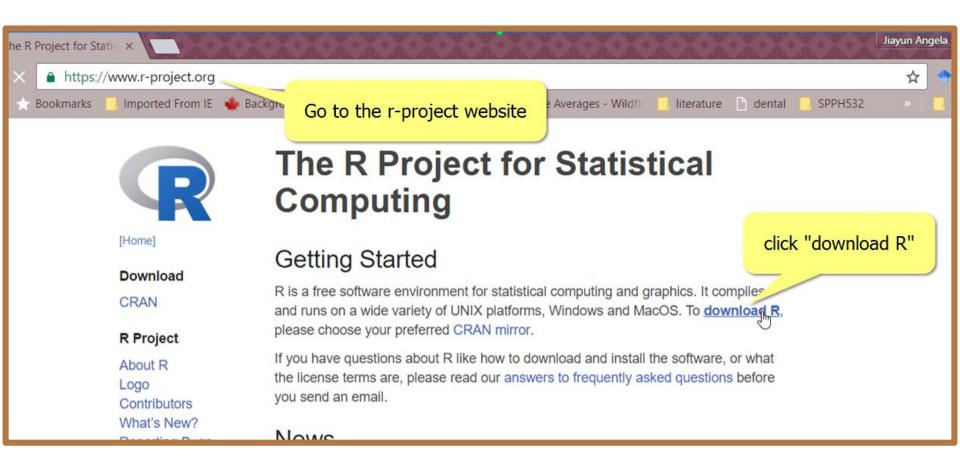


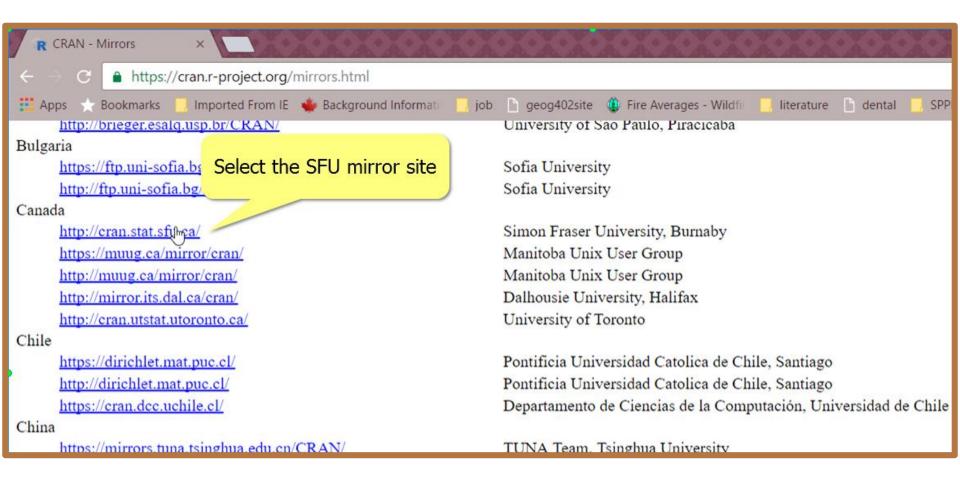
R Studio https://www.rstudio.com/products/RStudio/

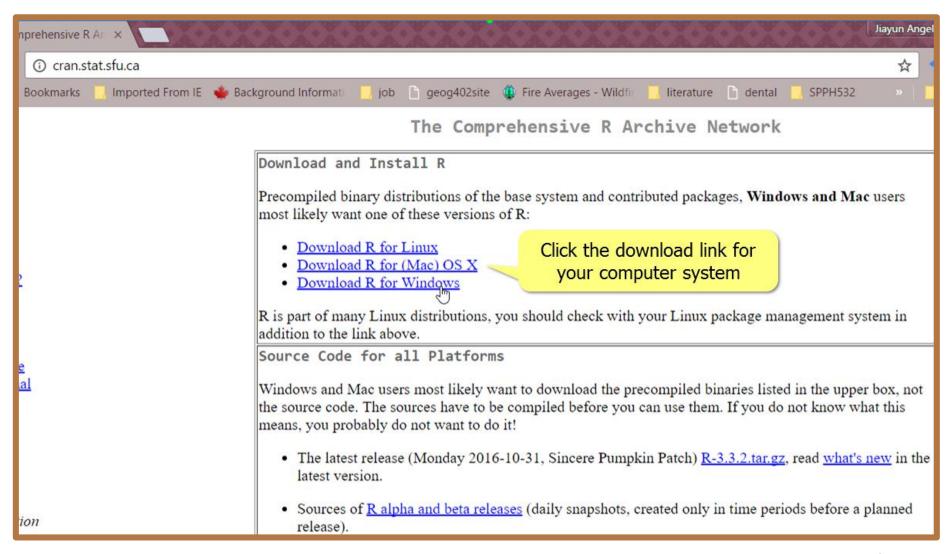


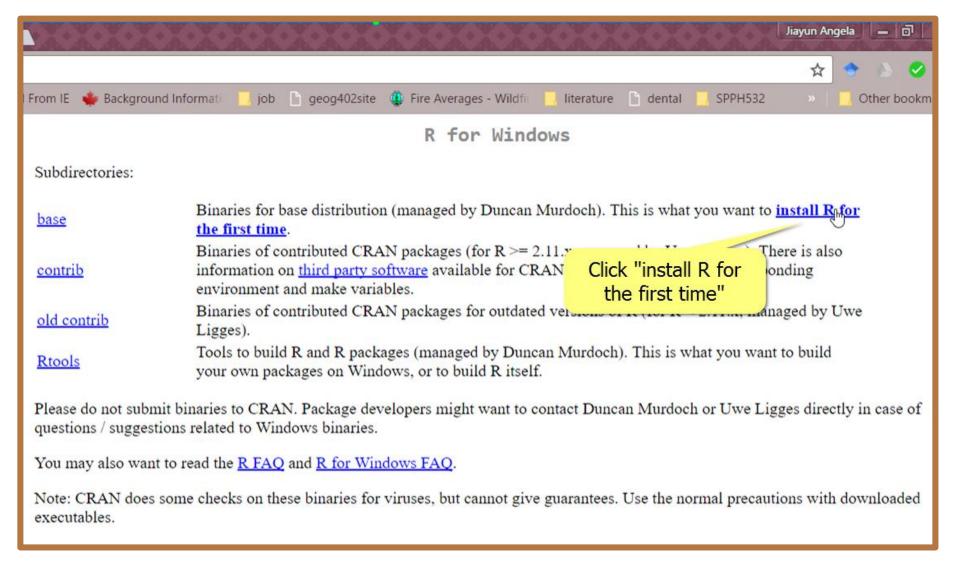
http://www.deducer.org/pmwiki/pmwiki.php?n=Main.DeducerManual?from=Main.HomePage

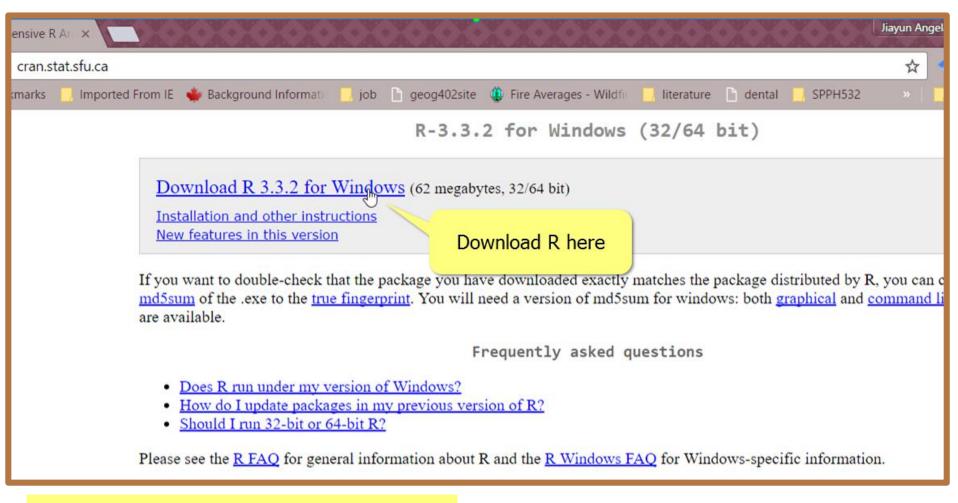






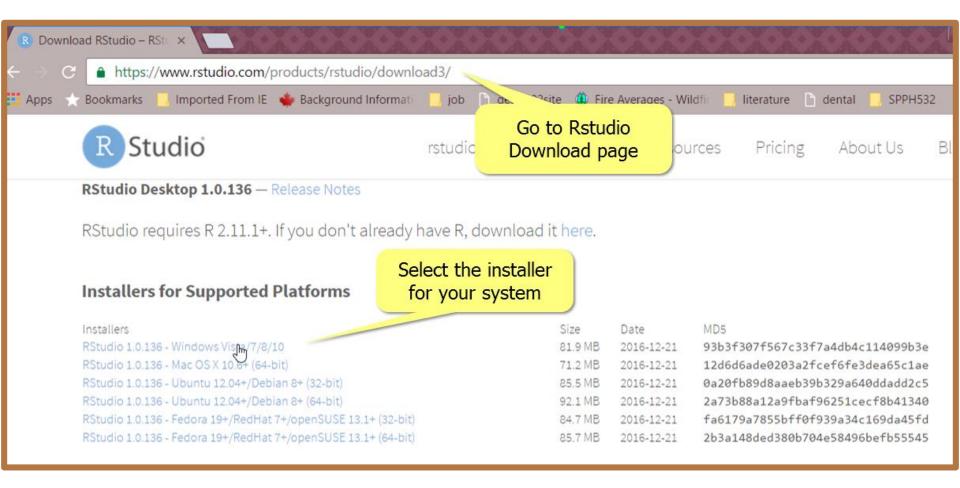




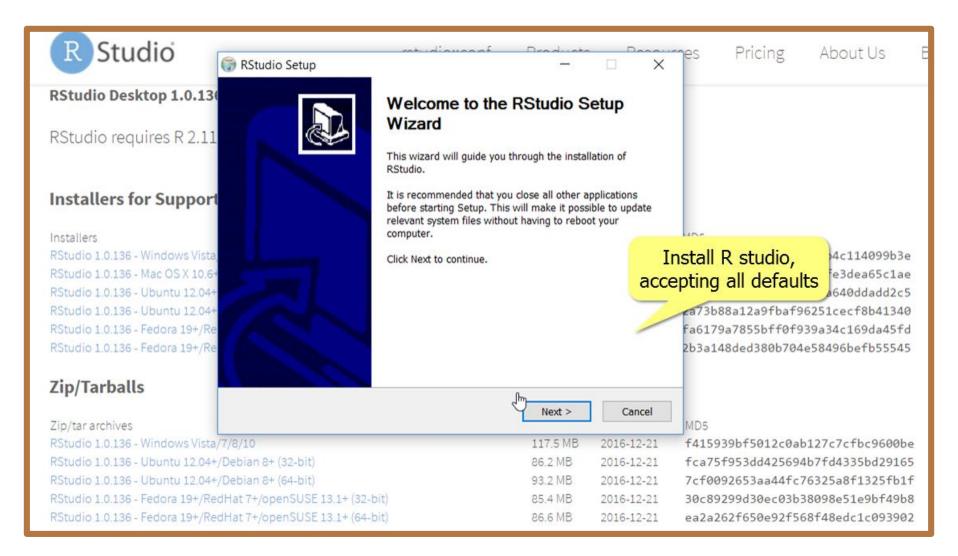


Then install R, accepting all defaults.

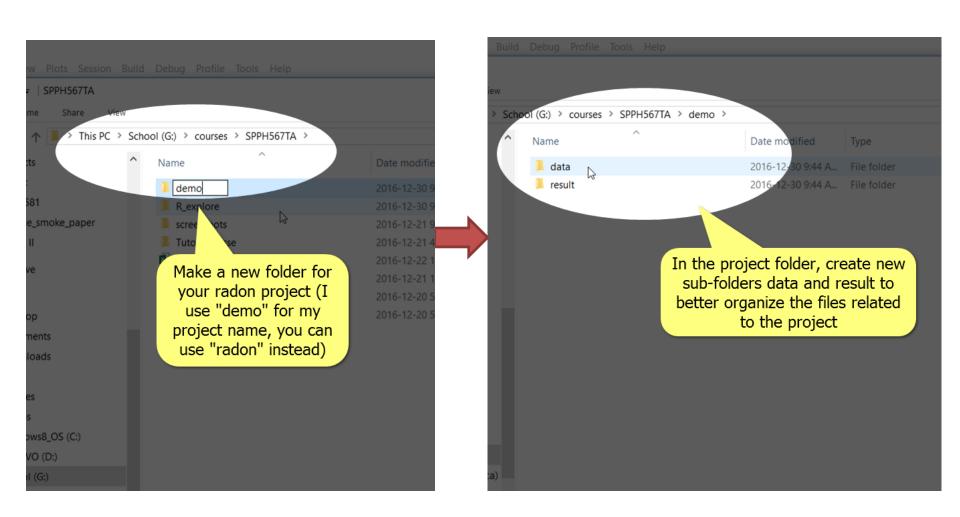
## Download and Install Rstudio -- 1



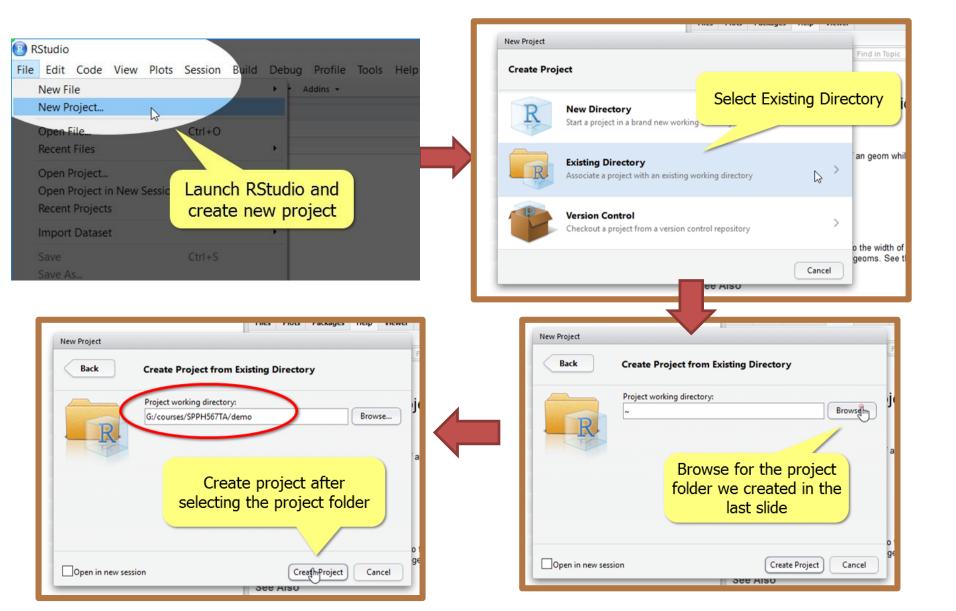
### **Download and Install Rstudio -- 2**



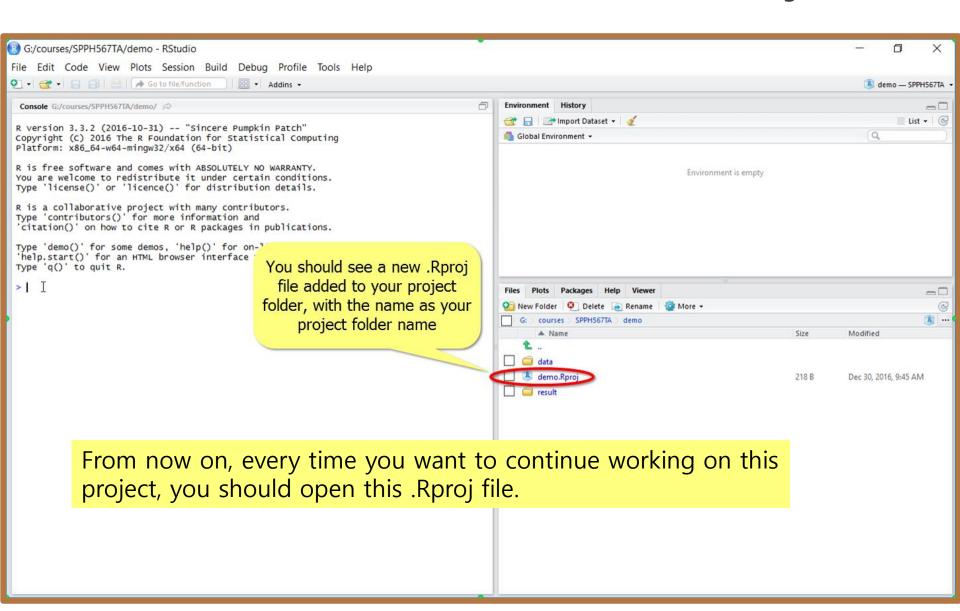
# Set up folders for the project



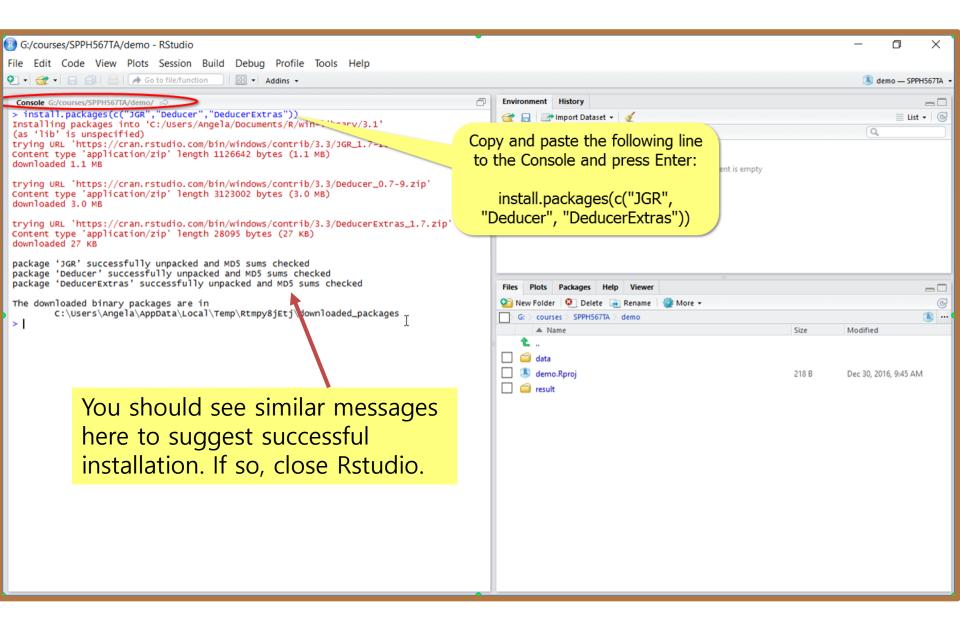
# Launch Rstudio and Create a Project - 1



# Launch Rstudio and Create a Project - 2



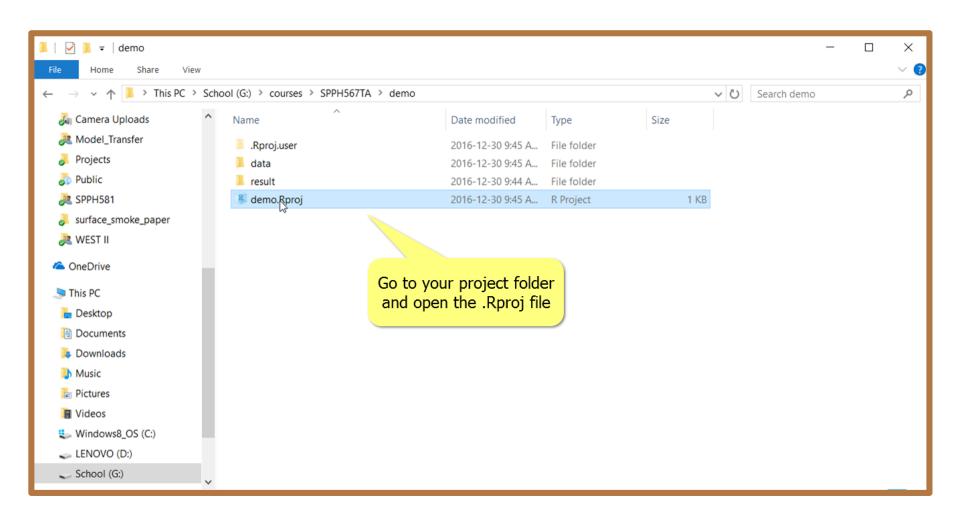
### **Install Deducer**



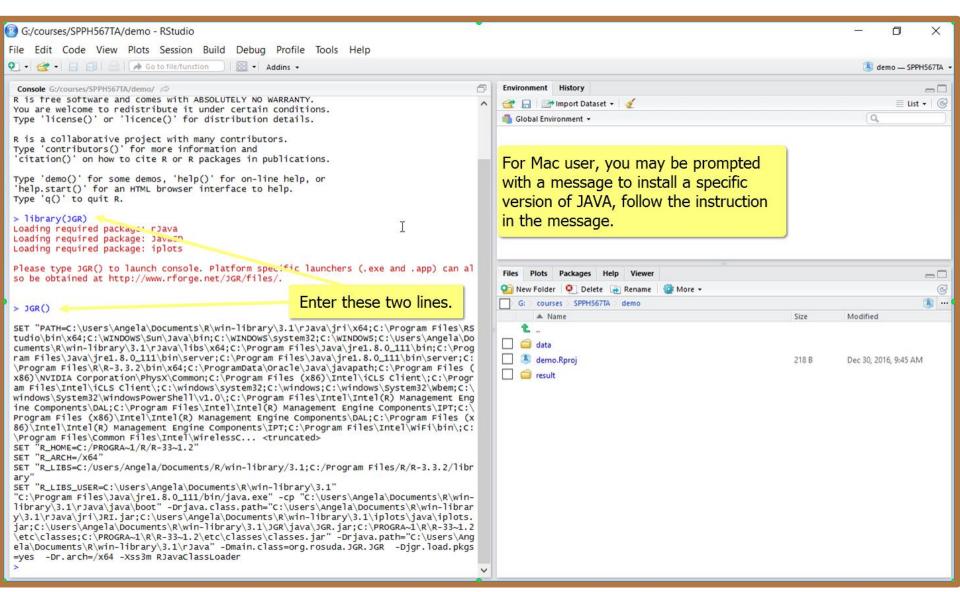
Now we have all the necessary elements installed in our system.

Next we will talk about how to launch Deducer.

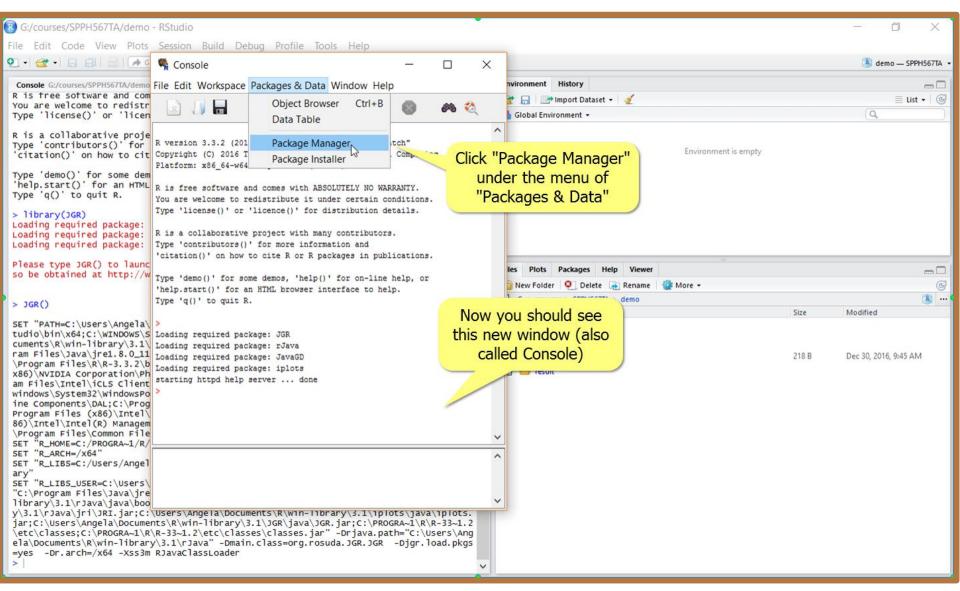
### **Launch Deducer - 1**



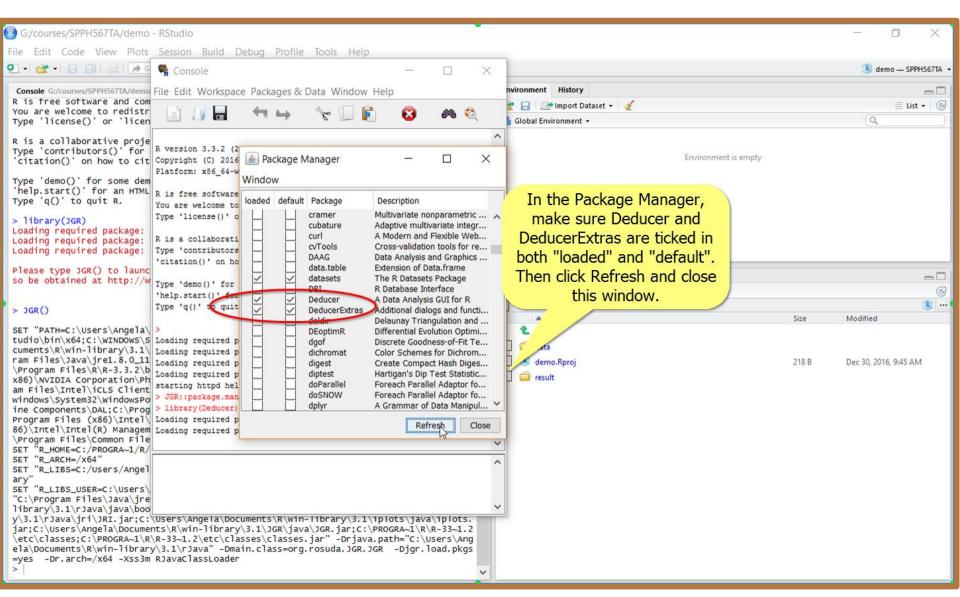
### **Launch Deducer – 2**



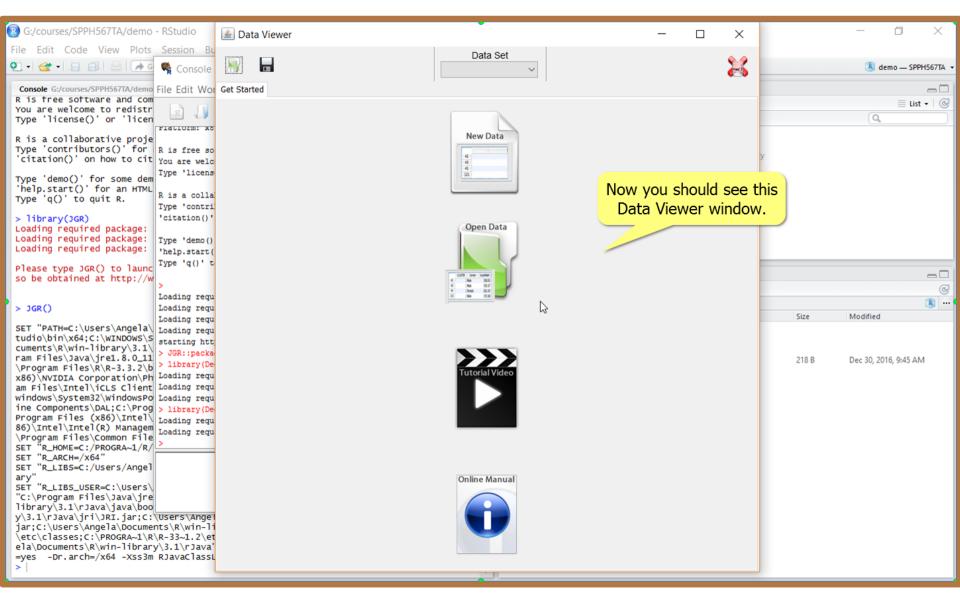
### Launch Deducer - 3



### **Launch Deducer – 4**



### **Launch Deducer – 5**

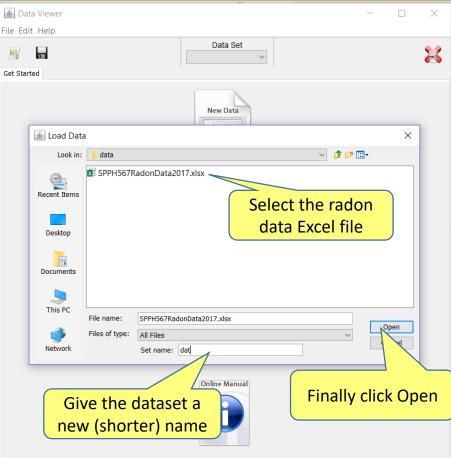




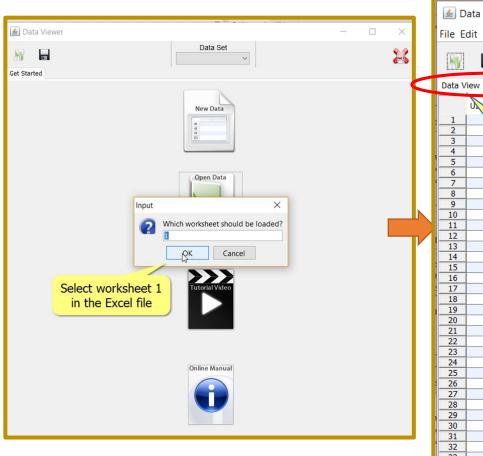
## Import data – 1

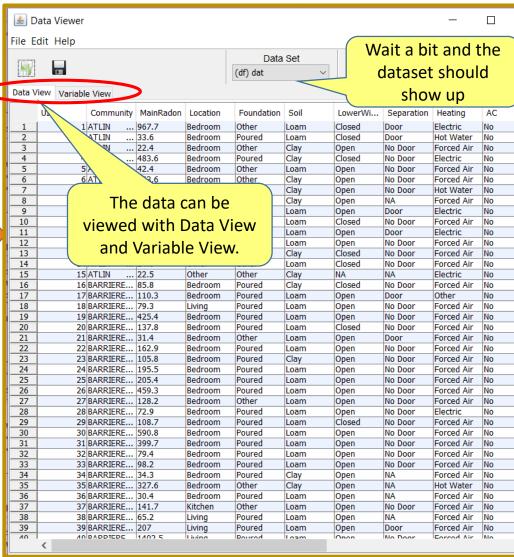
First download the radon data file from the SPPH567 website and put it in your data folder in the project folder. Then do the following:



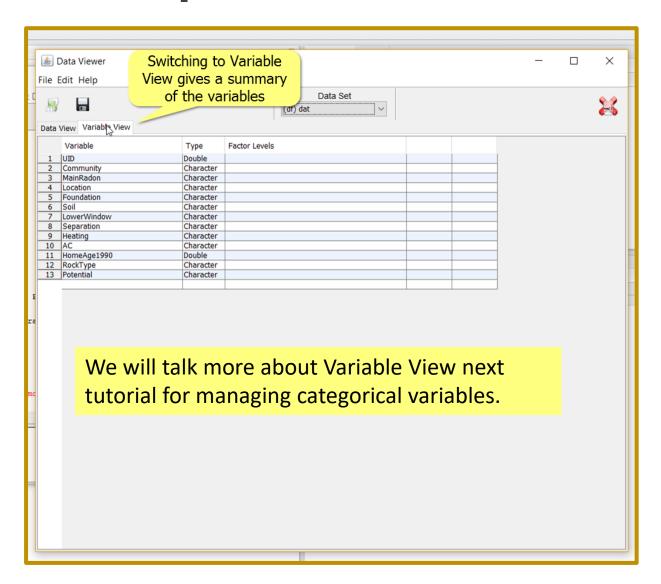


# Import data – 2

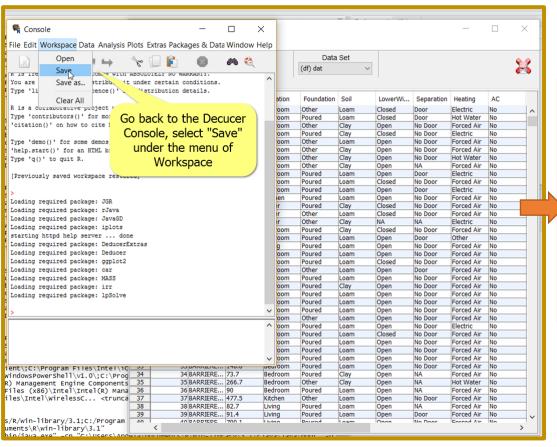


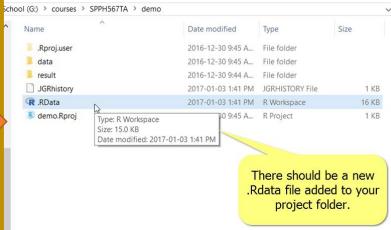


## Import data – 3



## Save workspace





By saving workspace every time before you close Deducer, your work will be automatically resumed to this saved point when you open this project next time.