

# INTRODUCTION TO R SOFTWARE

## DOWNLOADING JAVA,R AND R-STUDIO AND ITS DOCUMENTATION

### DOWNLOADING JAVA

Before you install R for the first time, it is mandatory to install Java into your machine.

Please follow the instructions

1. Download and Install Java 1.6 or later shown from the link given below.

[http://www.r-statistics.com/2012/08/how-to-load-the-rjava-package-after-the-error-java\\_home-cannot-be-determined-from-the-registry/](http://www.r-statistics.com/2012/08/how-to-load-the-rjava-package-after-the-error-java_home-cannot-be-determined-from-the-registry/) .

2. Note the path where it is installed (For e.g: C:\Program Files\Java\jdk1.6.0\_21)
3. Go to System Properties (Right click on My computer > Properties > Advanced System Properties)
4. Go to environment variables, System variables and add a new env. variable
  - 4a. Name of the variable should be JAVA\_HOME
  - 4b. Value of the variable should be the path noted in step 2 (replace Program Files with PROGRA~1 - short names)
5. Go to command prompt and type the following command to check if everything is fine.
  - 5a. %JAVA\_HOME%\bin\java.exe -version (this command should show the version of java installed)

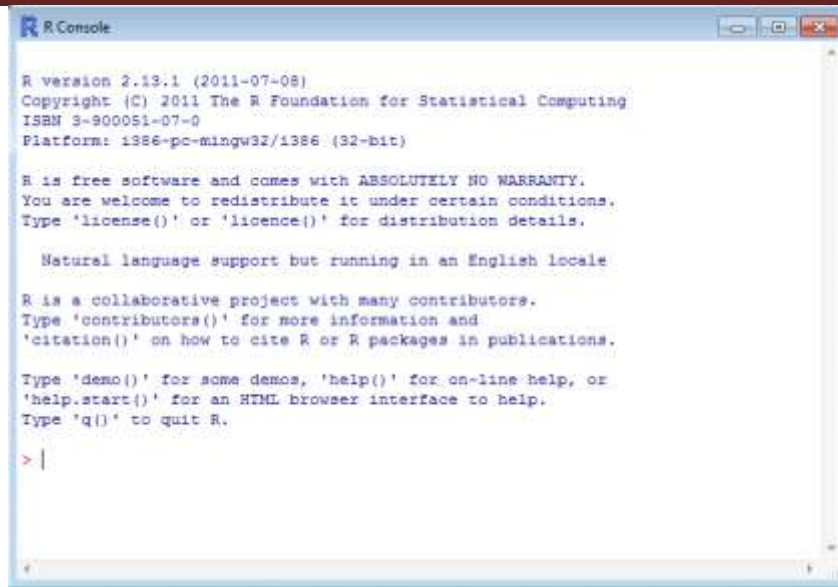
### DOWNLOADING R

Download the "R" software from any of the links mentioned below and install.

<http://cran.r-project.org/bin/windows/base/>

<http://cran.r-project.org/bin/windows/base/old/>

We strongly recommend to download the version 3.0.2 as this is more stable one compared to others. Choose the OS (Linux, Windows and Mac) that you are using on your system. Once you install the software, you see the work environment as shown below



```
R Console

R version 2.13.1 (2011-07-08)
Copyright (C) 2011 The R Foundation for Statistical Computing
ISBN 3-900051-07-0
Platform: i386-pc-mingw32/i386 (32-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.

  Natural language support but running in an English locale

R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

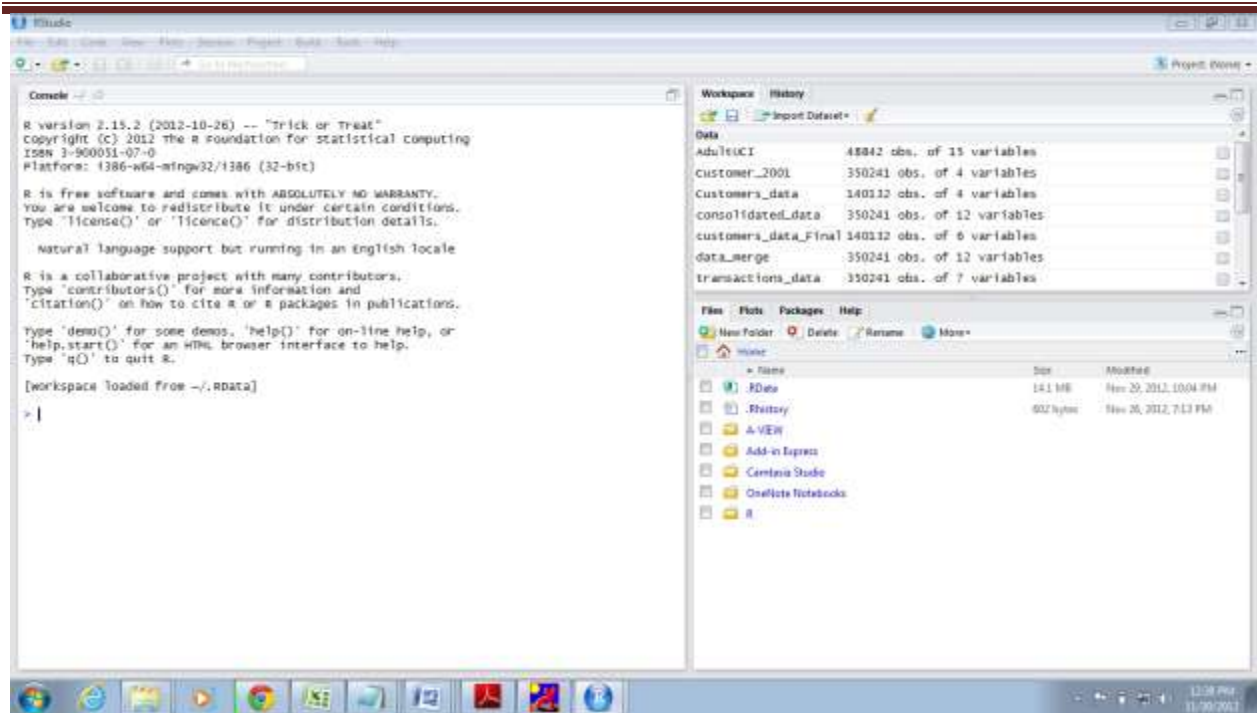
> |
```

## DOWNLOADING R-STUDIO

All the class room demonstrations are done R -Studio. This version is more flexible and programmer friendly. Click on the below link to down load. Once you install the software, you see the work environment as shown below

<http://rstudio.org/download/>

## R installation instructions



Once you install R studio. Please install the below libraries.

```
install.packages("rJava")
```

```
install.packages("Deducer")
```

```
install.packages("JGR")
```

```
install.packages("rattle")
```