R is an open source programming language most commonly used for data analysis. Wide range of actions such as importing and handling the data, visualizing through plots, perform various statistical operations.

**Training format:**

This training is aimed at providing a quick intro to essential concepts along with few practice problems that allows you to learn the nitty-gritties of R language by extending the basic concepts learnt to solve problems of higher complexity. This material is not aimed at being an extensive one, but on a level to impart all essential knowledge that would enable you to explore on your own when faced with a new problem.

To use this tutorial, open the file ‘R Training.rmd ‘ in RStudio and follow the instruction over there. Alternately you could also use the PDF version of the file, but we strongly recommend the markdown version if you are new to R.

Once you finish this, you could further continue to learn from [Swirl](http://swirlstats.com/students.html).

**Downloading R:**

R is free software (GNU general public license).

* Windows users: Download the R Windows installer from <http://cran.r-project.org/bin/windows/base/>. Then double-click on the installer to install R as you would any Windows software.
* Mac users: A universal binary for Mac OS X 10.4.4 and higher is available from

<http://cran.r-project.org/bin/macosx/>. Double-click on the icon for R.mpkg in the disk image to install R.

* Linux/Unix users: Precompiled binaries for many Linux systems are available from

<http://cran.r-project.org/bin/linux/> or users can compile R from source.

See <http://cran.r-project.org/> for more details.

**R Studio:**

R Studio is a very powerful open source Integrated Development environment (aka user interface) for R and we will be using it for all our practices. You can download R studio from here <http://www.rstudio.com/products/rstudio/download/>