

R INTRODUCTORY COURSE

**What, Why, Who,
and more ...**

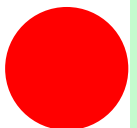
WHAT IS R

- R is a free software environment for statistical computing and graphics. It compiles and runs on a wide variety of UNIX platforms, Windows and MacOS (www.r-project.org)
- ... the R language has become a de facto standard among statisticians for developing statistical software, and is widely used for statistical software development and data analysis ([R \(programming language\)](#), wikipedia)



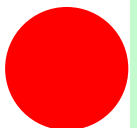
WHY R

- the name is partly based on the (first) names of the first two R authors (Robert Gentleman and Ross Ihaka), and partly a play on the name of the Bell Labs language 'S'



WHY R

- “lingua franca” for data analysis
- functional and easy scripting language developed for data manipulation
- widely used in universities
- commercial support
- wide range of applications



WHO USES R

- Google ([Google's R Style Guide](#))
- Facebook ([Visualizing Facebook Friends](#))
- [Mango Solutions](#), [ORS](#), [Quantide](#), [RevolutionAnalytics](#), ...
- Most Pharmacy Industries
- SAS, JMP, Oracle and SPSS integrate with R
- [R Users Groups](#), [Torino R net](#)
- The R project ... LinkedIn group has almost 5000 professionals
- R/Finance LinkedIn group has more than 800 professionals
- [Bay Area useRs](#) (silicon valley) are more than 1200
- Some interesting people like [Stefano Iacus](#), [Patrick Burns](#), [Rob Hyndman](#), [Eric Zivot](#), [Diethelm Wurtz](#), [David Luthi](#), [Brian Peterson](#), [Matthew Dowle](#), [Jeffrey Ryan](#), [Dirk Eddelbuettel](#), ... look for [Task Views](#)' maintainers.



COURSE MATERIAL

- An excerpt from the book “[An introduction to R](#)” by Longhow Lam
- <http://TorinoR.net/wp-content/uploads/2011/11/RIntroductoryCourse.zip>
- Visit:
 - <http://cran.r-project.org/manuals.html>
 - <http://torinor.net/contributed-r-documentation/>
 - <http://torinor.net/efficient-r-programming/>
 - <http://journal.r-project.org/>
 - <http://www.r-bloggers.com/>
 - <http://cran.at.r-project.org/web/views/Finance.html>
 - <http://cran.at.r-project.org/web/views/TimeSeries.html>
 - <http://cran.at.r-project.org/web/views/Cluster.html>
 - <http://cran.at.r-project.org/web/views/Optimization.html>
 - <http://addictedtor.free.fr/graphiques/>
 - <http://crantastic.org/>

