Economic Data Analysis Using R

• Introduction to R
• Getting Started - Using RStudio IDE
• Economic Data
• Data Exploration
• Data Visualization – Using Graphs
• Data Analysis I
• Data Analysis II
Introduction to R

• What is R?
  – Roger D. Peng: Computing for Data Science

• Installation
  – R 3.2.x
  – RStudio 0.99.xxx
  – Portable R/RStudio
  – Cloud Computing with R/RStudio
Introduction to R

• R Resources
  – R-Projects (CRAN)
  – R-bloggers
  – Quick-R
  – TryR
  – DataCamp
  – Others
    • Stackoverflow
    • Bioconductor
    • Revolution Analytics
Getting Started

• Using RStudio
  – Console (Input/Output)
  – Editor (Script, Data, Project)
  – History (Environment, Search)
  – Help (Viewer, Files, Plots, Packages)

• R Basics
  – Data Types and Basic Operations: [Note 1], [Note 2], [Note 3], [Note 4]
  – Reading and Writing Data: [Note 5], [Note 6]
  – Functions: [Note 7]