

R Programming Workshop Feb 20th, 2016

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Introductions

- Your Name
- Background

Workshop Objectives

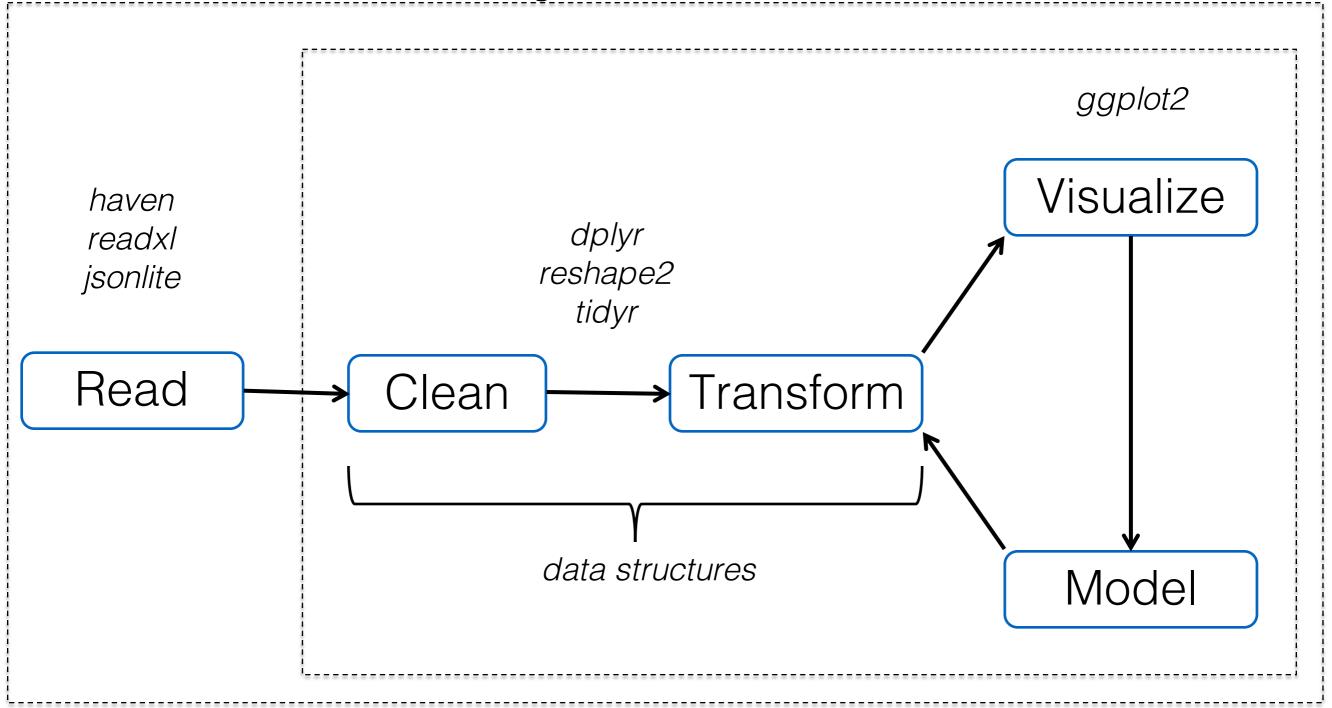
- Get Comfortable with R
 - For Your Classes
 - Individual Projects
- Learn to
 - Setup and Customize RStudio
 - Work with R packages
 - Import data into R
 - R data structures vectors, matrices, dataframes, lists
 - R control structures loops, apply functions
 - R graphics

Resources

- Stackoverflow http://stackoverflow.com/
- R Bloggers http://www.r-bloggers.com/
- Rdocumentation http://rdocumentation.org

Why ?

Data Analysis Value Chain



Document

rmarkdown

Setup RStudio

Installing Packages

Installing Packages from CRAN

- Installing
- > install.packages("packagename")
- Loading
- > library(packagename)

Installing Packages From CRAN

- devtools
- rmarkdown
- knitr

Installing Packages From Github

- > library(devtools)
- > install_github("dgrtwo/broom")

Finding Help in R

• ? – Exact match

• ?? – Fuzzy match

Recap

- Customizing RStudio
- Setting up an RStudio Project
- Overview of Data Analysis Value Chain
- Installing and Updating Packages
- Finding Help