



THE UNIVERSITY OF
CHICAGO

R Programming Workshop

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Workshop Objectives

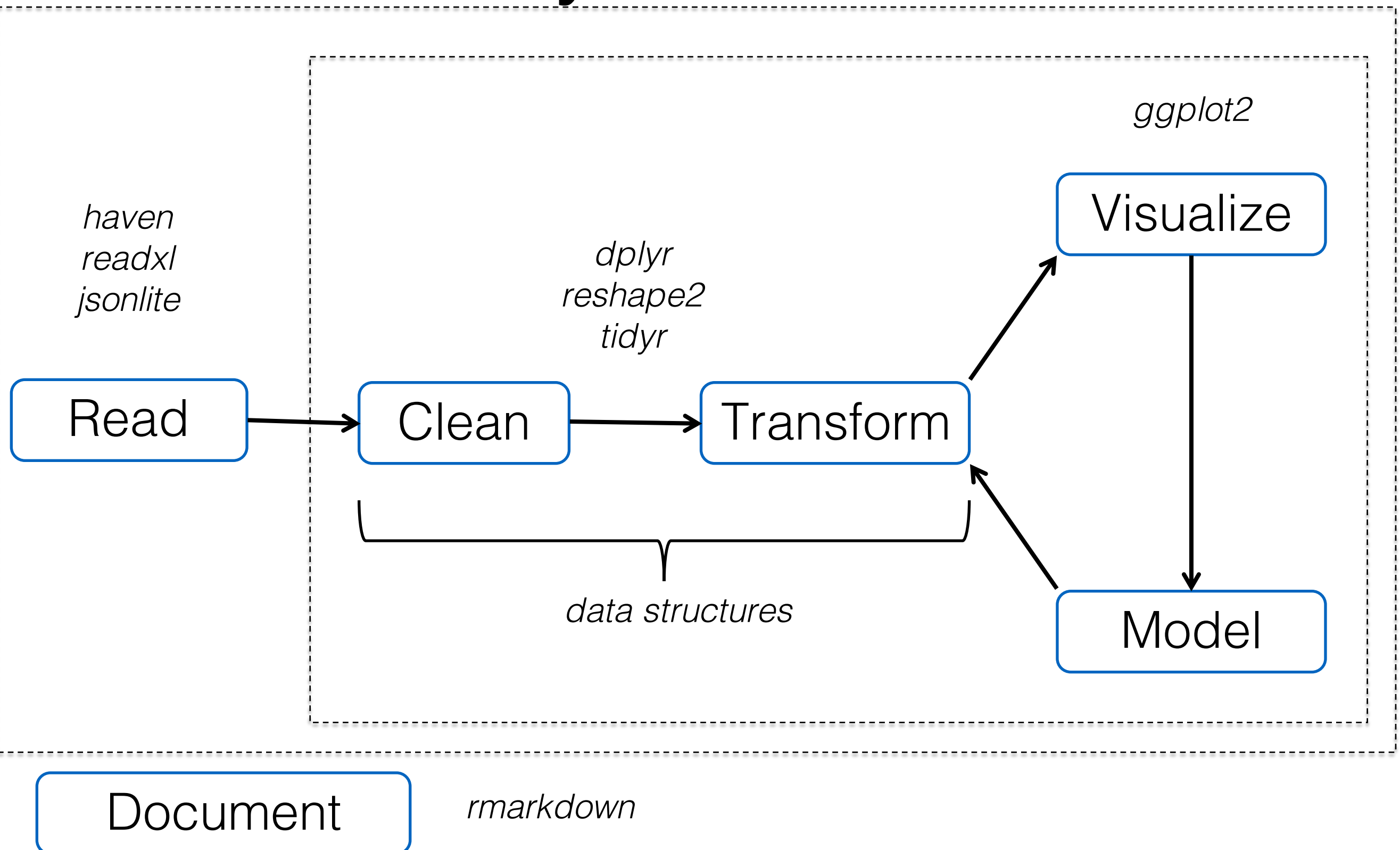
- Get Comfortable with R
 - For Your Classes
 - Individual Projects
- Learn to
 - Setup and Customize RStudio
 - Work with R packages
 - Import data into R
 - R data structures – vectors, matrices, dataframes, lists
 - R control structures – loops, apply functions
 - R graphics

Resources

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

Why ?

Data Analysis Value Chain



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