### Introduction to R Studio

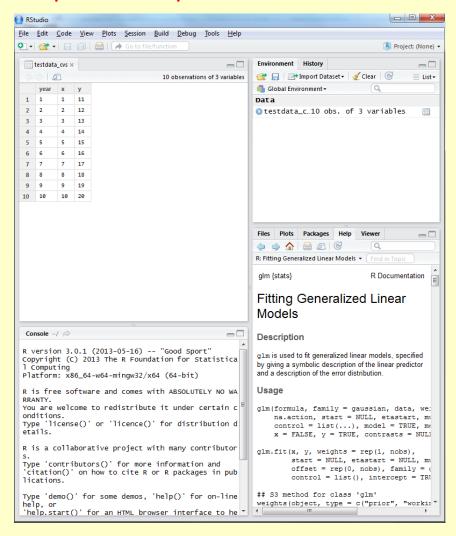
Download R Studio free-ware: (http://www.rstudio.com/)



NOTE: You can run R Studio, without first running R. R studio will automatically open and run R.

## R Studio Overview

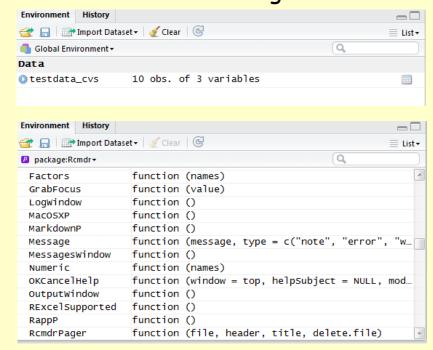
#### Explore Multiple Windows and Views



#### History:



# Environment: Global Variables / Package Functions



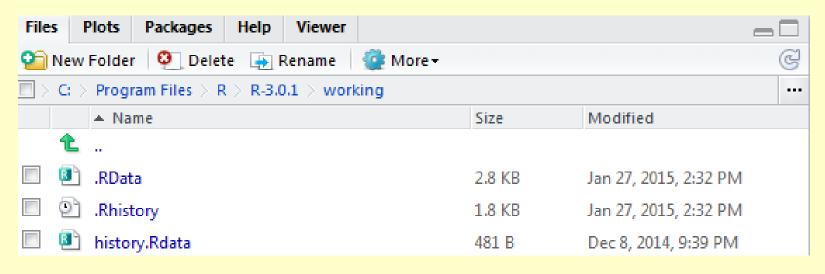
#### R Studio Overview

#### User-friendly Console

```
Console ~/ 🔊
R version 3.4.0 (2017-04-21) -- "You Stupid Darkness"
Copyright (C) 2017 The R Foundation for Statistical Computing
Platform: x86_64-w64-mingw32/x64 (64-bit)
R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.
R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.
Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.
```

## R Studio Overview

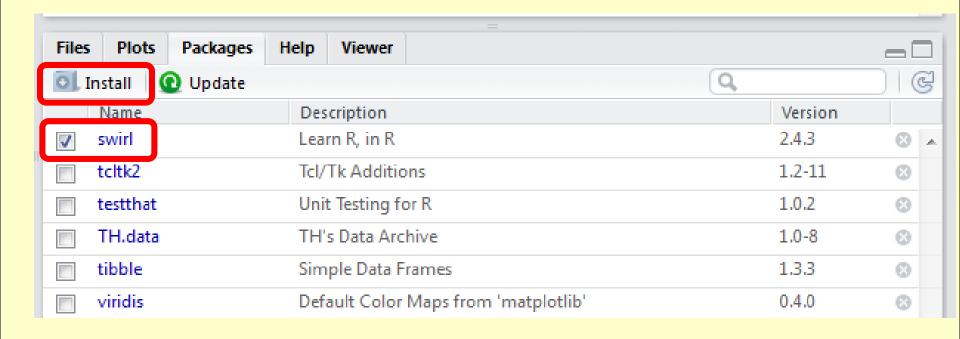
#### Access to Files / Package Library / Help



Files	Plots Packages	Help Viewer		
Install O Update G				
	Name	Description	Version	
System Library				
	abind	Combine multi-dimensional arrays	1.4-0	8
	aod	Analysis of Overdispersed Data	1.3	⊗≡
	aplpack	Another Plot PACKage: stem.leaf, bagplot, faces, spin3R, plotsummary, plothulls, and some slider functions	1.3.0	8

# Install "Swirl" Package

#### Install and Run Package Swirl using R Studio



| Type swirl() when you are ready to begin.



# Run "Swirl" Package

```
| Please choose a course, or type 0 to exit swirl.

    R Programming

2: Take me to the swirl course repository!
Selection: 1
| Please choose a lesson, or type 0 to return to course menu.
1: Basic Building Blocks
                             2: Workspace and Files
 3: Sequences of Numbers
                               4: Vectors
 5: Missing Values
                               6: Subsetting Vectors
 7: Matrices and Data Frames
                               8: Logic
                              10: lapply and sapply
 9: Functions
                              12: Looking at Data
11: vapply and tapply
                              14: Dates and Times
13: Simulation
15: Base Graphics
Selection: 1: R Programming
```

### Tasks

1. Get R and R Studio to run

2. Familiarize yourself with R (help, history, workspace)

3. Familiarize yourself with R Studio

4. Run Swirl and start familiarizing yourself with R syntax and functions