

Data Visualization

Who are you?



I Still Don't Know

Fill-out: Form

Why are We Here?



- To Develop a Personal and Intimate Hate/Love Relationship With R
- To Install Some Key R Packages
 - Tidyverse
 - Rmarkdown
- To Practice Coding via R Scripts
- To Learn Elements of ggplot2
- To Practice Making Visually Stunning Pictures that Change Lives

Initial Steps in RStudio



- Install Tidyverse Package
 - install.packages("tidyverse")
- Other Packages To Be Installed
 - RColorBrewer
 - RMarkdown

Select Install and Search on CRAN

Files ots Packages He	elp Viewer		
Install (Update		Q	
Name	Description	Version	
Jser Library			
abind	Combine Multidimensional Arrays	1.4-5	8
assertthat	Easy Pre and Post Assertions	0.2.0	8
backports	Reimplementations of Functions Introduced Since R-3.0.0	1.1.2	8
base64enc	Tools for base64 encoding	0.1-3	8
BH	Boost C++ Header Files	1.66.0-1	8
bindr	Parametrized Active Bindings	0.1.1	8
bindrcpp	An 'Rcpp' Interface to Active Bindings	0.2.2	8
bitops	Bitwise Operations	1.0-6	8
broom	Convert Statistical Analysis Objects into Tidy Tibbles	0.5.0	8
callr	Call R from R	2.0.4	8
caTools	Tools: moving window statistics, GIF, Base64, ROC AUC, etc.	1.17.1.1	8
cellranger	Translate Spreadsheet Cell Ranges to Rows and Columns	1.1.0	8
cli	Helpers for Developing Command Line Interfaces	1.0.0	8
clipr	Read and Write from the System Clipboard	0.4.1	8
coda	Output Analysis and Diagnostics for MCMC	0.19-1	8

Initial Steps in RStudio



- To Use the Package
 - Code
 - > library("tidyverse")
 - Check Box for Tidyverse

Files	Plots	Packages	Help	Viewer			
0	Install (Update			Q,		1 C
	Name			Description		Version	
✓	tidyverse			Easily Install and Load the 'Tidyverse'		1.2.1	⊗ ^
	tinytex			Helper Functions to Install and Maintain 'TeX Live', and Compile 'LaTeX' Documents	9	0.6	8
	utf8			Unicode Text Processing		1.1.4	8
	viridisLite	9		Default Color Maps from 'matplotlib' (Lite Version)		0.3.0	8
	whisker			{{mustache}} for R, logicless templating		0.3-2	8
	withr			Run Code 'With' Temporarily Modified Global State		2.1.2	8
	xfun			Miscellaneous Functions by 'Yihui Xie'		0.3	8
	XLConne	ct		Excel Connector for R		0.2-15	8
	XLConne	ctJars		JAR Dependencies for the XLConnect Package		0.2-15	8
	xml2			Parse XML		1.2.0	8
	yaml			Methods to Convert R Data to YAML and Back		2.2.0	8
	Z00			S3 Infrastructure for Regular and Irregular Time Series (Z's Ordered Observations)		1.8-3	8
Syste	em Librar	у					
	boot			Bootstrap Functions (Originally by Angelo Canty for S)		1.3-20	8
	class			Functions for Classification		7.3-14	8
	cluster			"Finding Groups in Data": Cluster Analysis Extended Rousseeuw al	v et	2.0.7-1	⊗ ,

Closing?



Disperse and Make Reasonable Decisions