### Introduction to R



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### Overview



Introduction to R

Demo



#### What Is R?

Open source
Language and environment
Numerical and graphical
Cross platform





#### What Is R?

Active development

Large user community

Modular and extensible

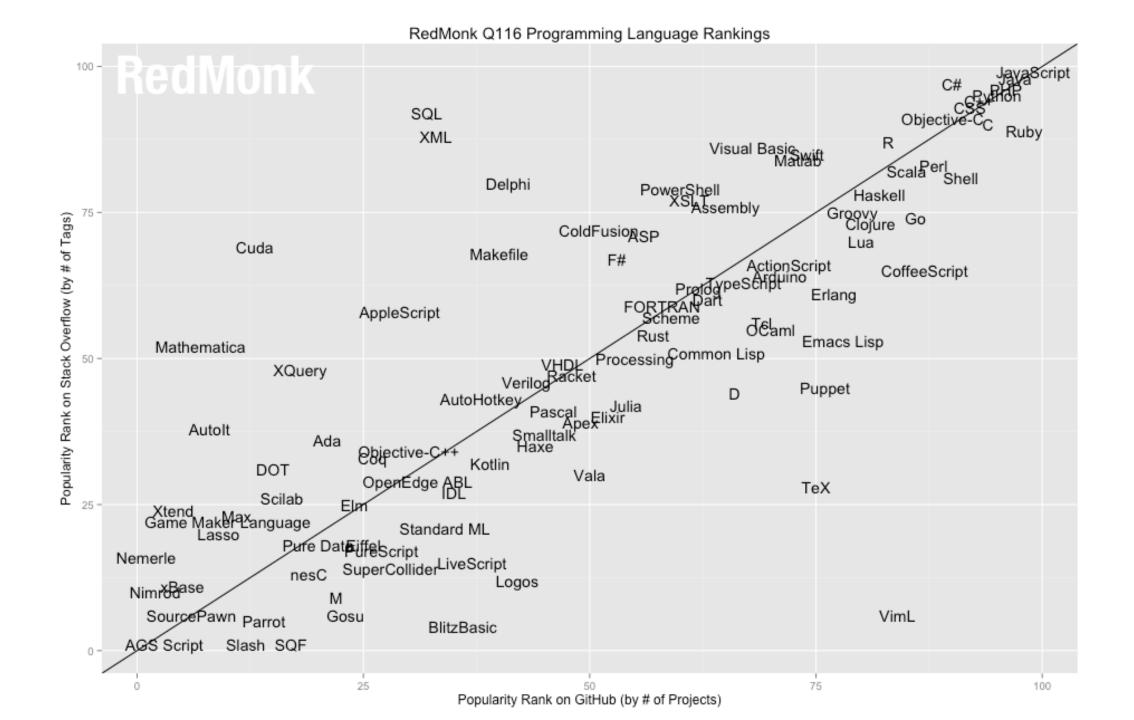
9000+ extensions

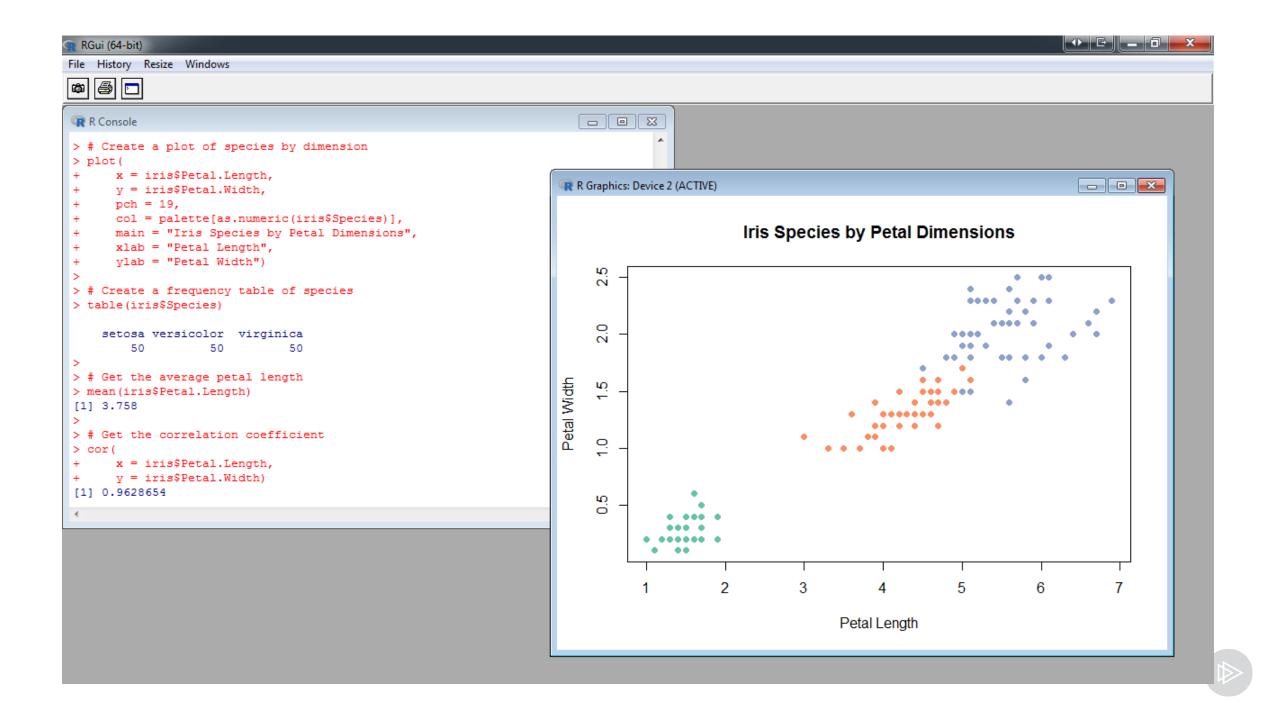


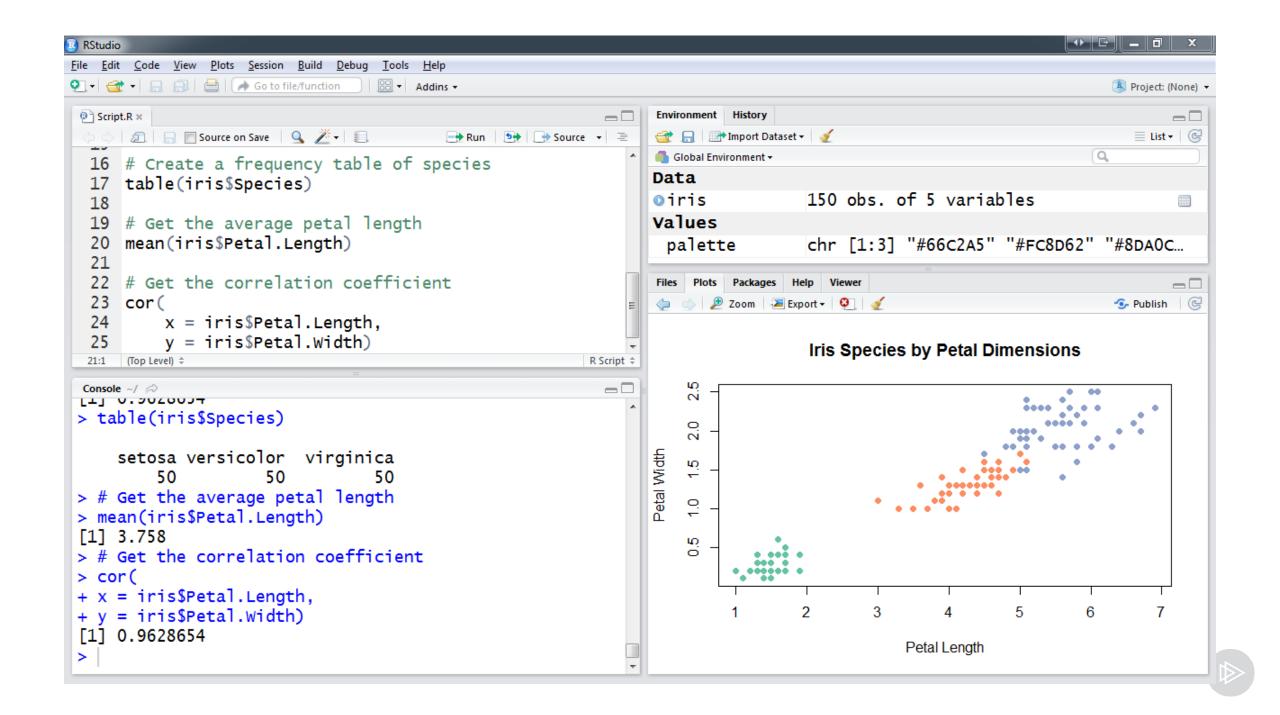


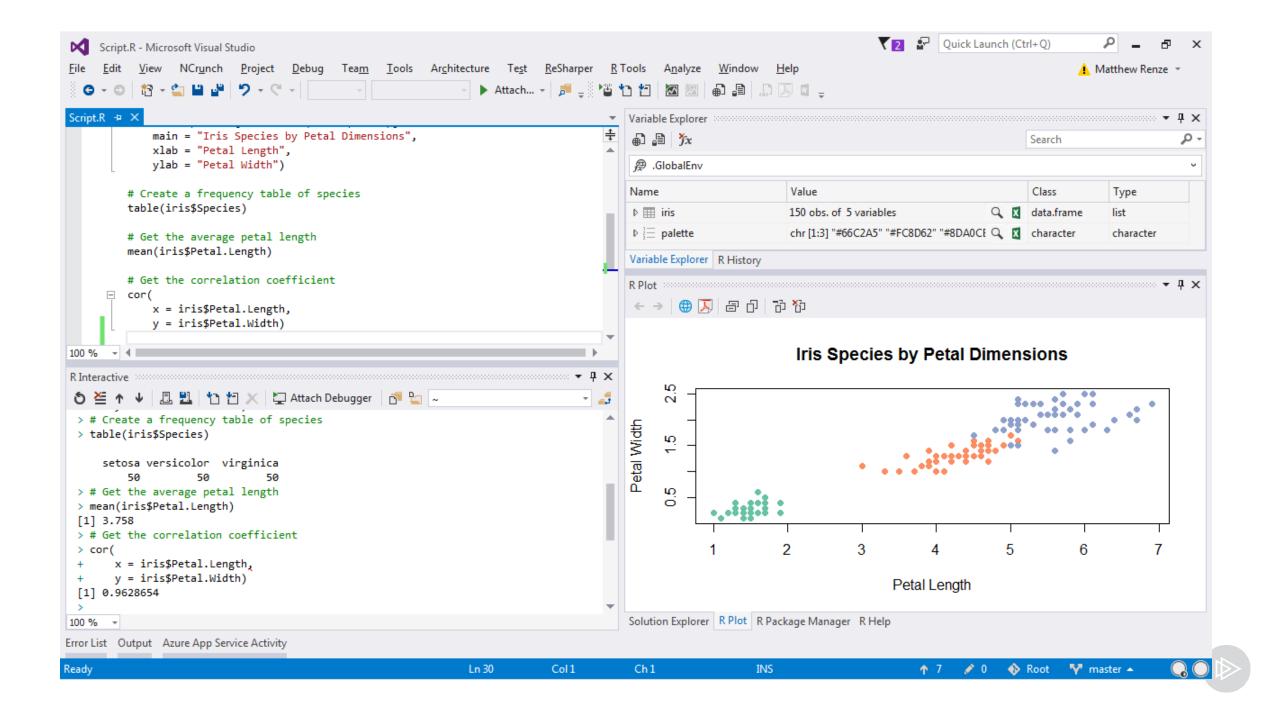












### Install R

www.r-project.org



### Install RStudio

www.rstudio.com



### Hello World Demo



# RStudio Walkthrough



# Scripts vs. Console



### Hello World in R Studio



# Assignment Operators



### Implicit Printing



# Creating Variables



### Displaying Variables



### Functions



#### Vectors



# Sequences



### Matrices



# Arrays



### Lists



#### Factors



### Data Frame



# Indexing



# Subsetting



### Subsetting (cont.)



### Vectorized Operations



### Named Arguments



### Installing Packages



# Getting Help



### Other Language Features

Control structures

Mathematical operators

String manipulation



### Summary



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