Installing R and RStudio

CSI 500

Spring 2018
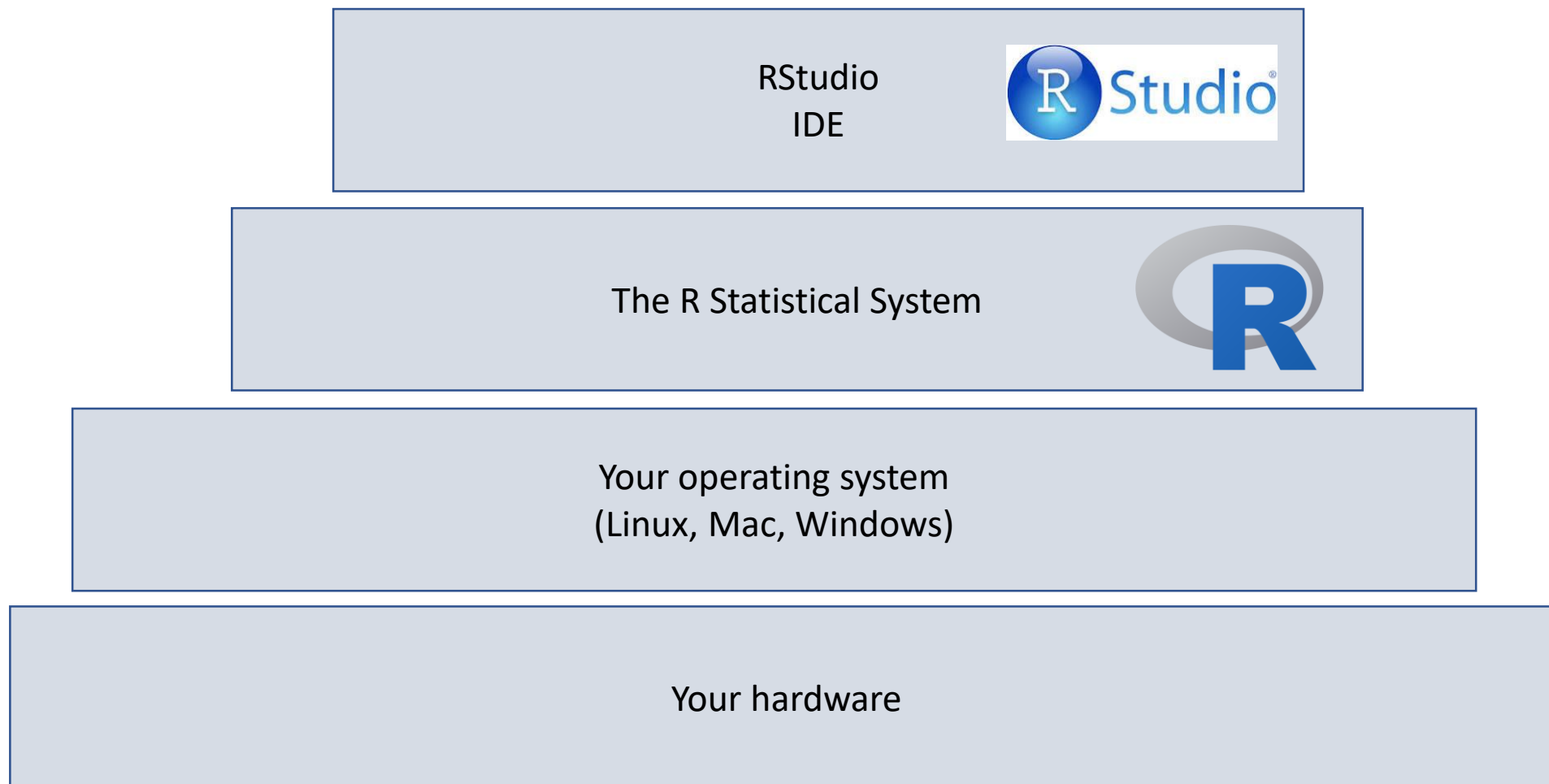
Course material derived from:
An Introduction to R. Notes on R: A Programming Environment for Data Analysis and Graphics
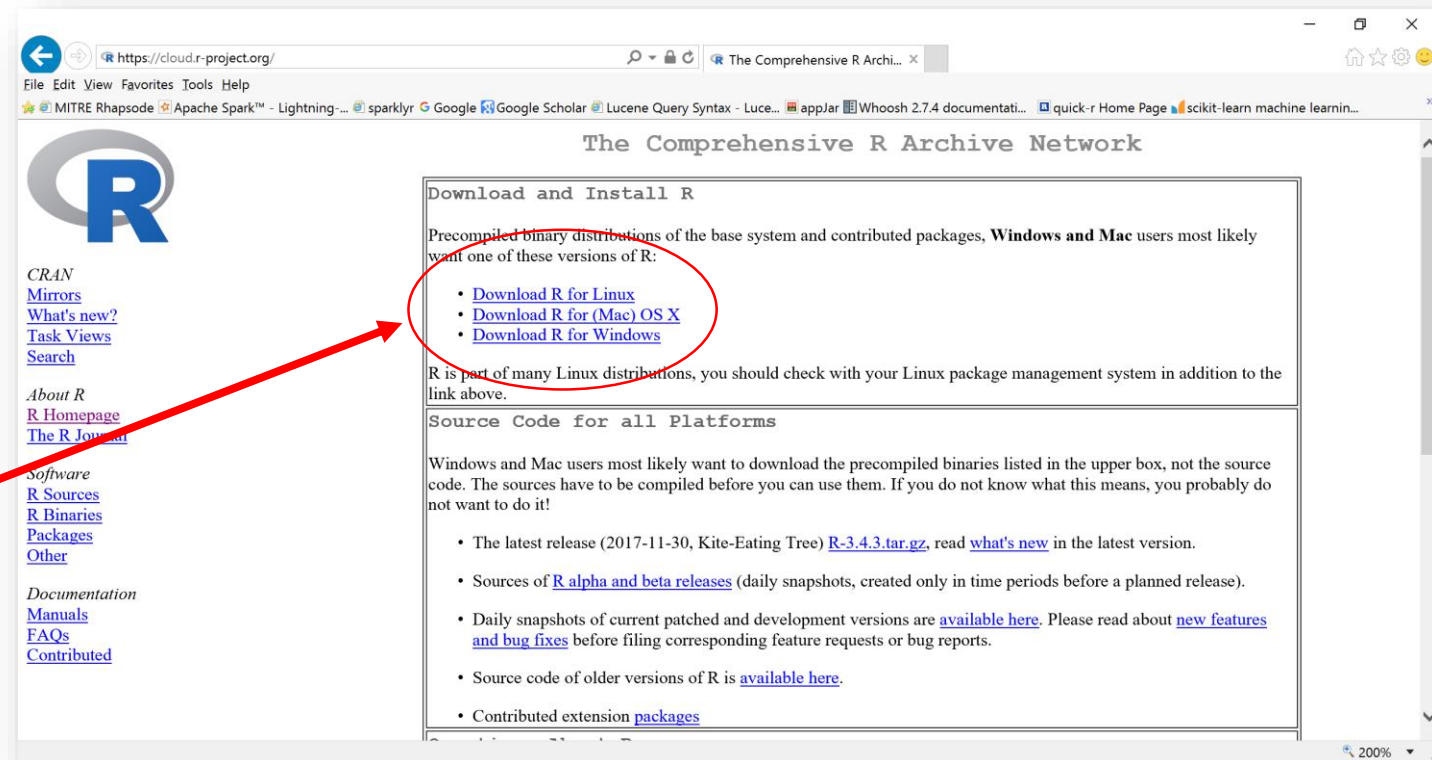Version 3.4.3 (2017-11-30)
https://cran.r-project.org/doc/manuals/r-release/R-intro.pdf

The R/Rstudio Stack

RStudio
IDE

The R Statistical System

Your operating system
(Linux, Mac, Windows)

Your hardware

Installing R

- R is available for free download for a variety of platforms
  - Go to the download site at https://cloud.r-project.org/
  - Download R for your platform (Linux, Mac, Windows)
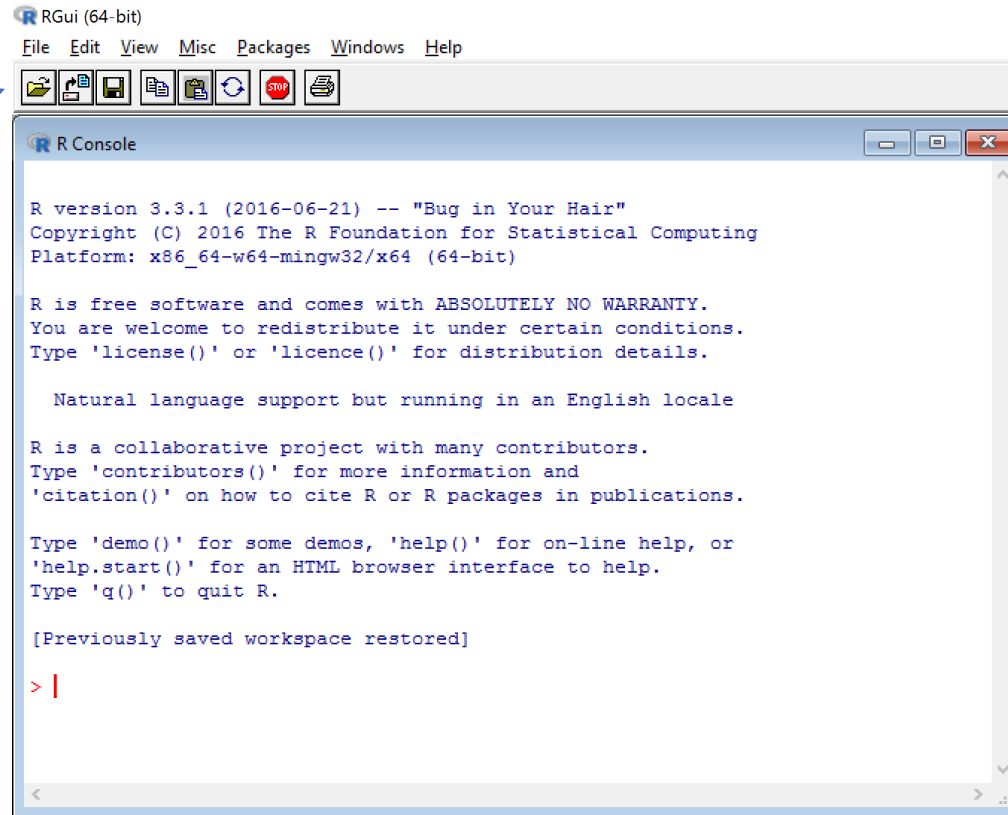
Your R installation

Menu bar

Tool shortcuts

Mandatory legal blurb

Interactive session prompt

Extra space for graphs

Installing Rstudio Desktop Open Source

- Rstudio Desktop is a commercial product with a free Open Source version
  - Downloads are available at https://www.rstudio.com/products/rstudio/download/#download
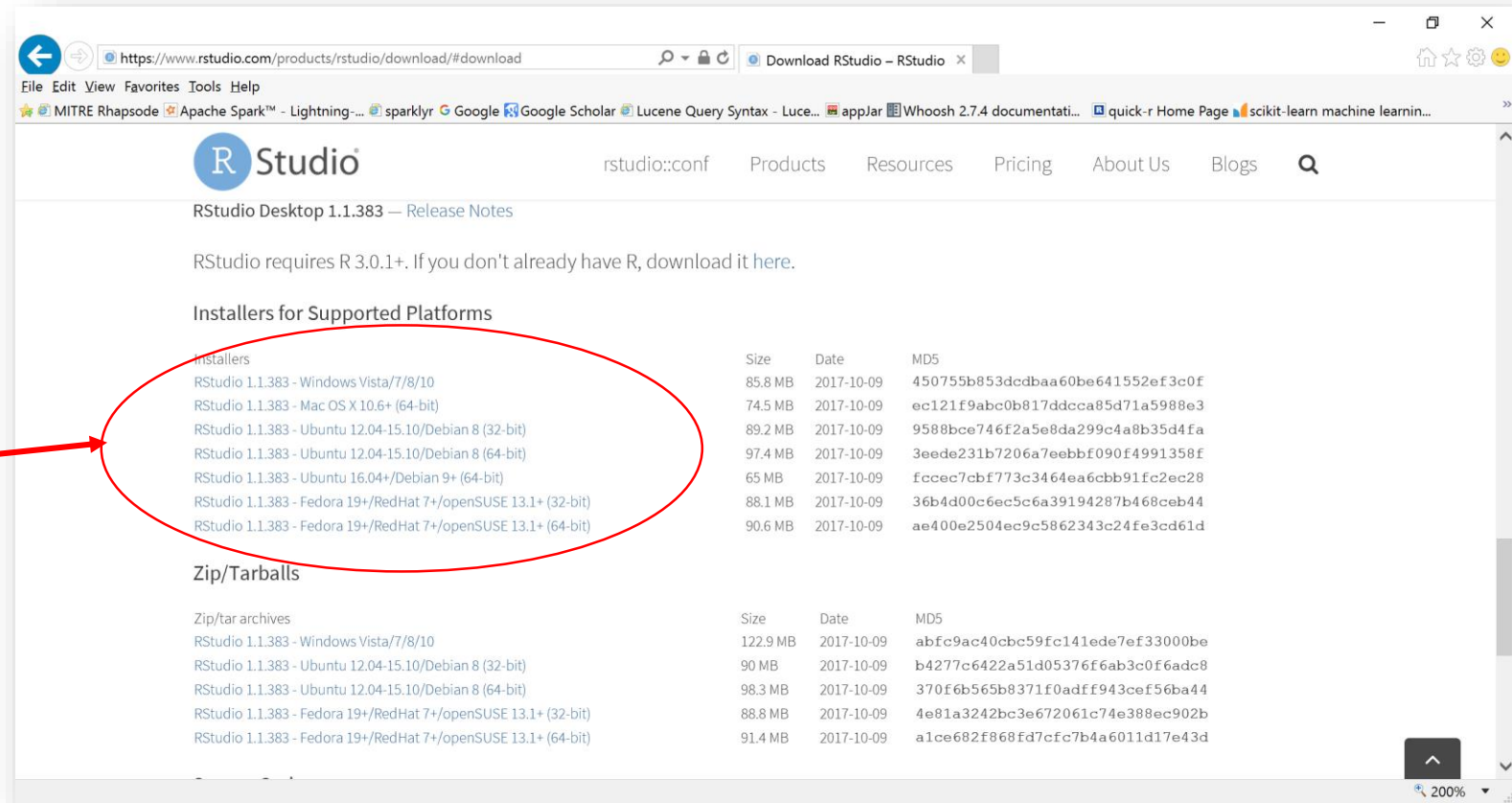
Your Rstudio Desktop Installation

Menu Bar and Tools

Objects in Workspace

Editor

Plots, Help, other tools

Command Prompt

Summary

- R is an open-source mathematical and statistical system widely used in industry, government, and academia
  - Based on the "S-Plus" system developed by AT&T
- Rstudio is an open-source Integrated Development Environment (IDE) for R
  - provides syntax sensitive editor, formatting tools
  - provides command console
  - provides data object management tools
  - provides online help and graphics windows