Laptop Prep for "Hands-on: Machine Learning Made Easy - No, Really!"
TDWI San Diego – August 2019

Overview

Laptop preparation for class consists of three high-level steps:

1. Installation of the R programming language.
2. Installation of the RStudio IDE.
3. Downloading of class files GitHub repository.
4. Installation of R packages.

NOTE – Administrator permission may be required to complete laptop prep. Also, often it is necessary to disable anti-virus software to allow for installation of R packages. As such, disabling anti-virus is recommended before laptop prep.

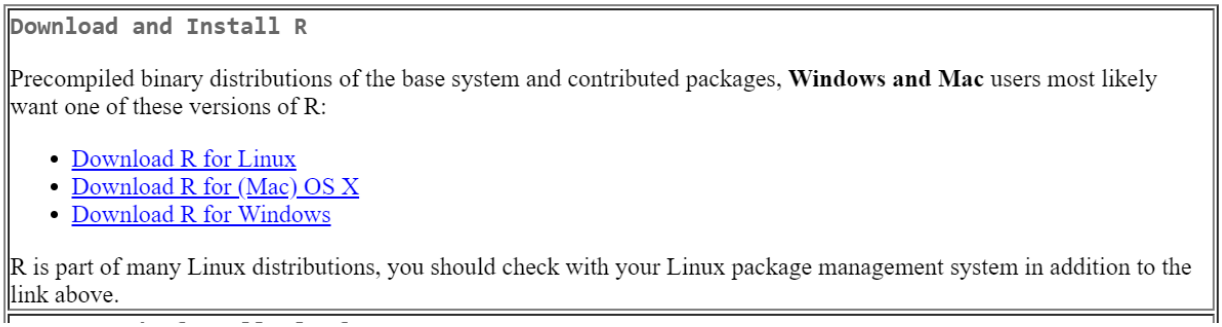
Hardware Requirements

1. Windows or Mac OS X preferred (instructors have no experience with Linux).
2. 4GB or RAM, 8GB of RAM preferred.
3. 500MB of free drive space.
4. WiFi capability.

R Installation

1. Open your browser and navigate to: https://cran.rstudio.com/

2. Select the R installer applicable to your laptop:



3. Download the applicable installer for your laptop (Windows shown below):

Subdirectories:

base — Binaries for base distribution. This is what you want to **install R for the first time**.

4. Run the R installer, accept all the default installer settings, and install R.

RStudio Installation

1. Open your browser and navigate to:
   https://www.rstudio.com/products/rstudio/download/#download

2. Select and download the installer applicable to your laptop:
   Installers for Supported Platforms

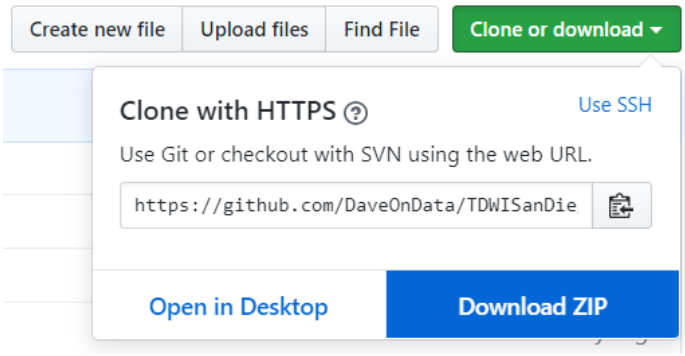
Installers	Size	Date	MD5
RStudio 1.2.1335 - Windows 7+ (64-bit)	126.9 MB	2019-04-08	d0e2470f1f8ef4cd35a669aa323a2136
RStudio 1.2.1335 - Mac OS X 10.12+ (64-bit)	121.1 MB	2019-04-08	6c570b0e2144583f7c48c284ce299eef
RStudio 1.2.1335 - Ubuntu 14/Debian 8 (64-bit)	92.2 MB	2019-04-08	c1b07d0511469abfe582919b183eee83
RStudio 1.2.1335 - Ubuntu 16 (64-bit)	99.3 MB	2019-04-08	c142d69c210257fb10d18c045fff13c7
RStudio 1.2.1335 - Ubuntu 18 (64-bit)	100.4 MB	2019-04-08	71a8d1990c0d97939804b46cfb0aea75
RStudio 1.2.1335 - Fedora 19+/RedHat 7+ (64-bit)	114.1 MB	2019-04-08	296b6ef88969a91297fab6545f256a7a
RStudio 1.2.1335 - Debian 9+ (64-bit)	100.6 MB	2019-04-08	1e32d4d6f6e216f086a81ca82ef65a91
RStudio 1.2.1335 - OpenSUSE 15+ (64-bit)	101.6 MB	2019-04-08	2795a63c7efd8e2aa2dae86ba09a81e5
RStudio 1.2.1335 - SLES/OpenSUSE 12+ (64-bit)	94.4 MB	2019-04-08	c65424b06ef6737279d982db9eefcae1

3. Run the RStudio installer, accept all the default installer settings, and install RStudio.

Download Class Files From GitHub

1. Open your browser and navigate to: https://github.com/DaveOnData/TDWISanDiego2019

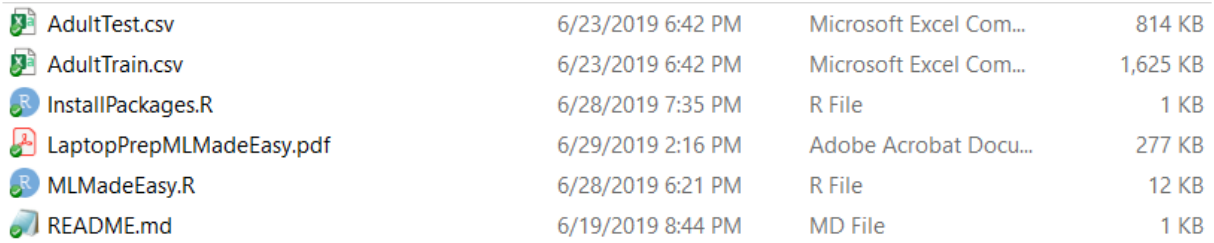
2. Click “Clone or download” -> Download ZIP:



3. Download the .ZIP archive file to a location on your laptop (e.g., “Documents/TDWISanDiego/MLMadeEasy” on Windows).

4. Unzip the TDWISanDiego2019-master.zip file into the location of #3 on your laptop’s drive.

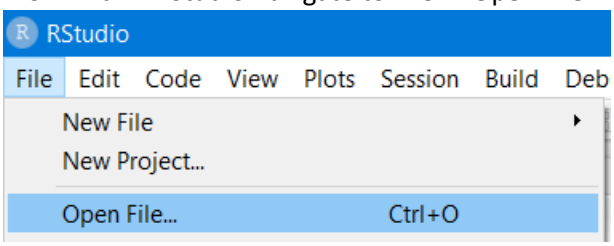
5. You should see the following files:



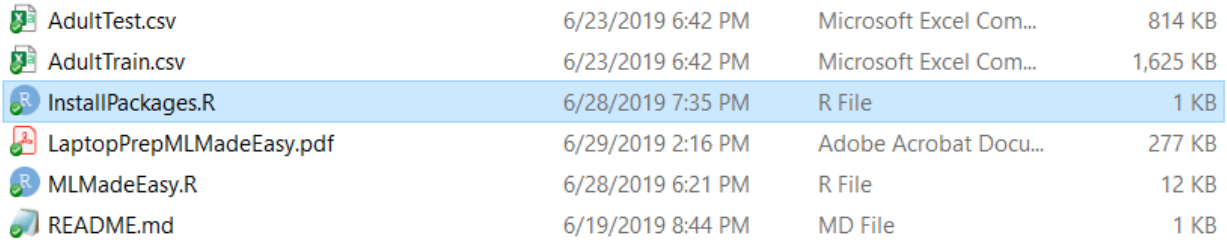
R Packages Installation

1. Open RStudio.

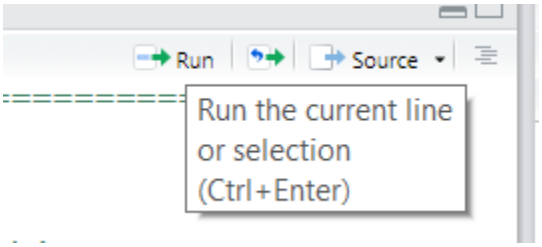
2. From within RStudio navigate to File -> Open File:



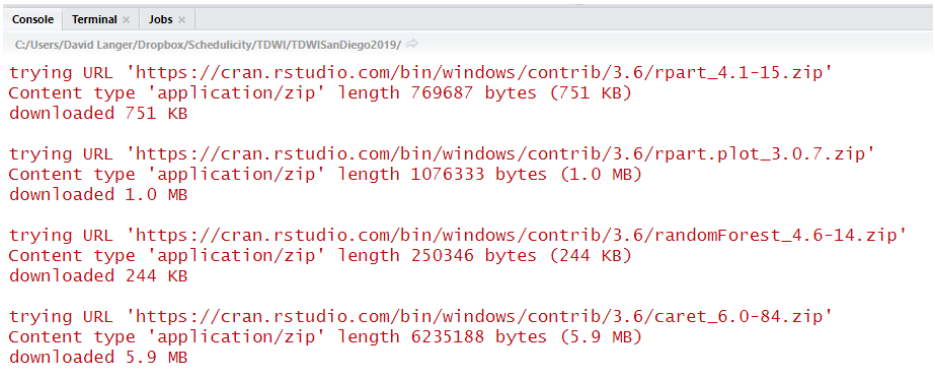
3. Using the file dialog, navigate to the “InstallPackages.R” file that you downloaded from GitHub and open in RStudio:

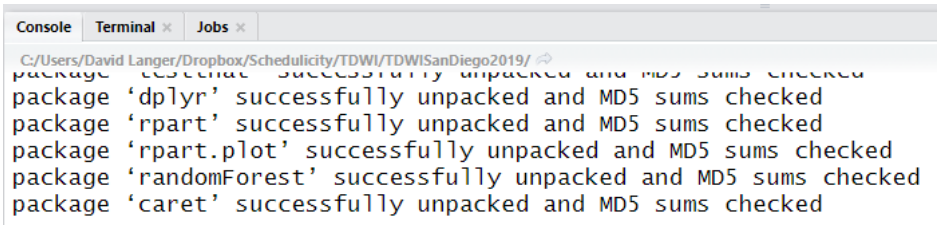


4. Within the RStudio IDE run the R code by clicking the “Run” button:



5. Running the R code will download and install a number of packages to your laptop. This process can take several minutes depending on the speed of your Internet connection and/or laptop:





Congratulations! You are now ready for the class!