Laptop Prep for "Hands-on: Machine Learning Made Easy - No, Really!"

Overview

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

1. Download the .ZIP from GitHub
2. Installation of the R programming language.
3. Installation of the RStudio IDE.
4. Unzipping the "MLMadeEasyStudentFiles.zip" file archive to your local hard drive.
5. 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.

The GitHub repository with all required course files is located here:

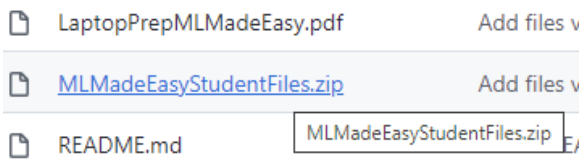
- https://github.com/DaveOnData/TDWIMachineLearningMadeEasy

Hardware Requirements

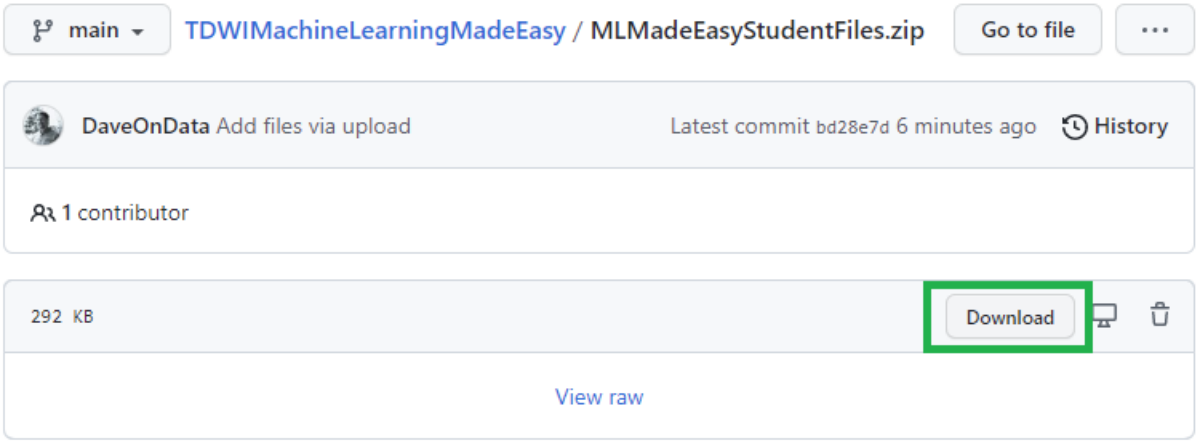
1. Windows or Mac OS X preferred (instructors have no experience with Linux).
2. 4GB or RAM, 8GB of RAM preferred.
3. 500MB of free drive space.
4. WiFi capability.

Download the .ZIP from GitHub

Within the GitHub repository page, click on the link for the "MLMadeEasyStudentFiles.zip" file:



On the next page, click the “Download” button:

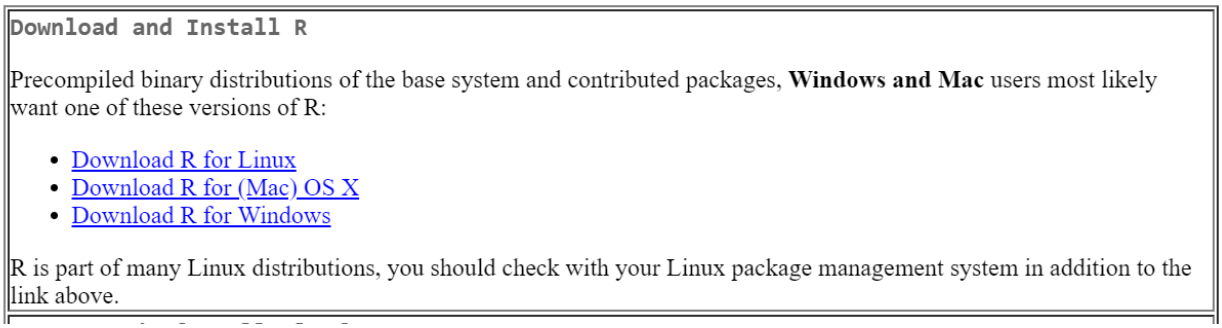


Move the .ZIP file from your Downloads folder to a well-known location on your laptop.

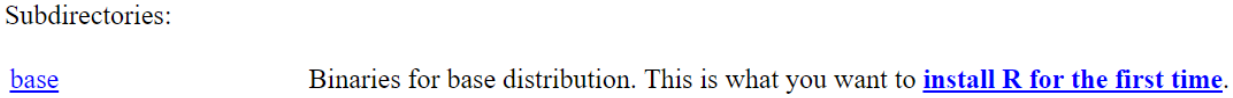
R Installation

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):

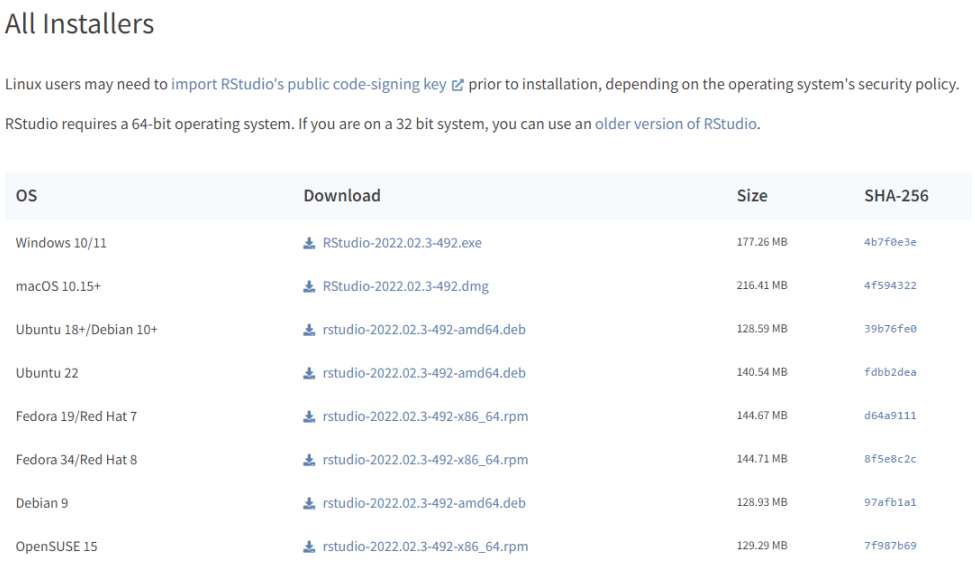


4. Run the R installer, accept all the default installer settings, and install R.

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:



All Installers

Linux users may need to import RStudio's public code-signing key prior to installation, depending on the operating system's security policy.

RStudio requires a 64-bit operating system. If you are on a 32 bit system, you can use an older version of RStudio.

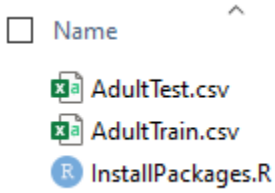
OS	Download	Size	SHA-256
Windows 10/11	RStudio-2022.02.3-492.exe	177.26 MB	4b7f0e3e
macOS 10.15+	RStudio-2022.02.3-492.dmg	216.41 MB	4f594322
Ubuntu 18+/Debian 10+	rstudio-2022.02.3-492-amd64.deb	128.59 MB	39b76fe0
Ubuntu 22	rstudio-2022.02.3-492-amd64.deb	140.54 MB	fdbb2dea
Fedora 19/Red Hat 7	rstudio-2022.02.3-492-x86_64.rpm	144.67 MB	d64a9111
Fedora 34/Red Hat 8	rstudio-2022.02.3-492-x86_64.rpm	144.71 MB	8f5e8c2c
Debian 9	rstudio-2022.02.3-492-amd64.deb	128.93 MB	97afb1a1
OpenSUSE 15	rstudio-2022.02.3-492-x86_64.rpm	129.29 MB	7f987b69

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

Class Files

1. Unzip the MLMadeEasyStudentFiles.zip file to a well-known location on your laptop's drive.

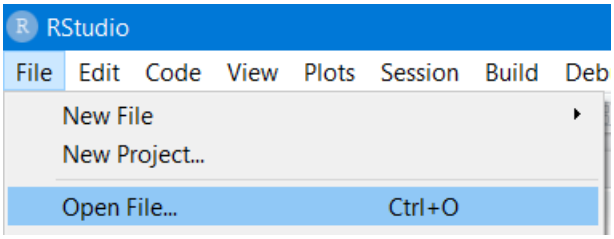
2. You should see the following files:



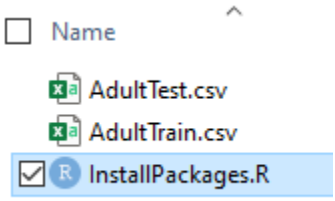
R Packages Installation

1. Open RStudio.

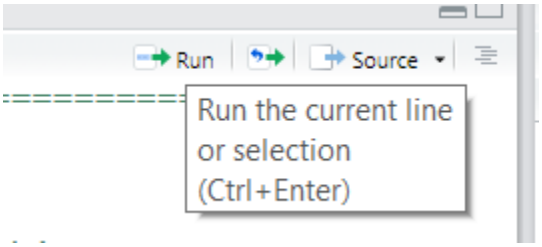
2. From within RStudio navigate to File -> Open File:



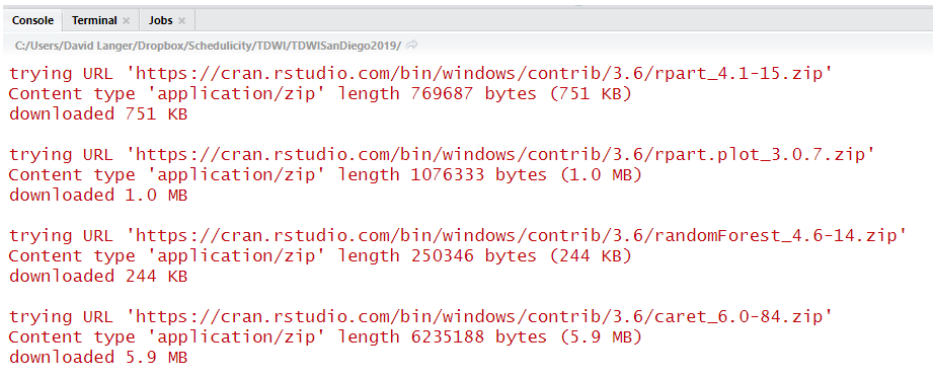
3. Using the file dialog, navigate to the “InstallPackages.R” file you unzipped from .ZIP archive and open in RStudio:

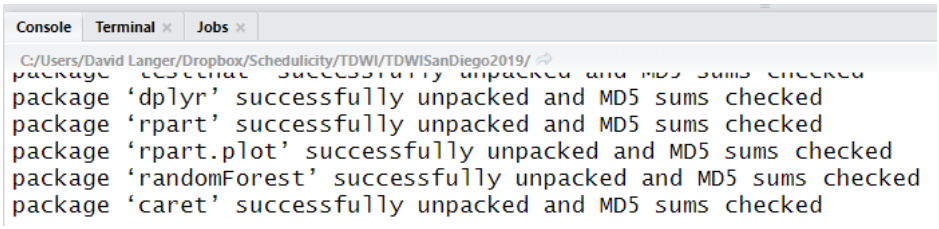


4. Within the RStudio IDE run the R code by clicking the “Run” button:



5. Running the R code will download and install several 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!