Instructions to run CEDAR Cohort Discovery locally

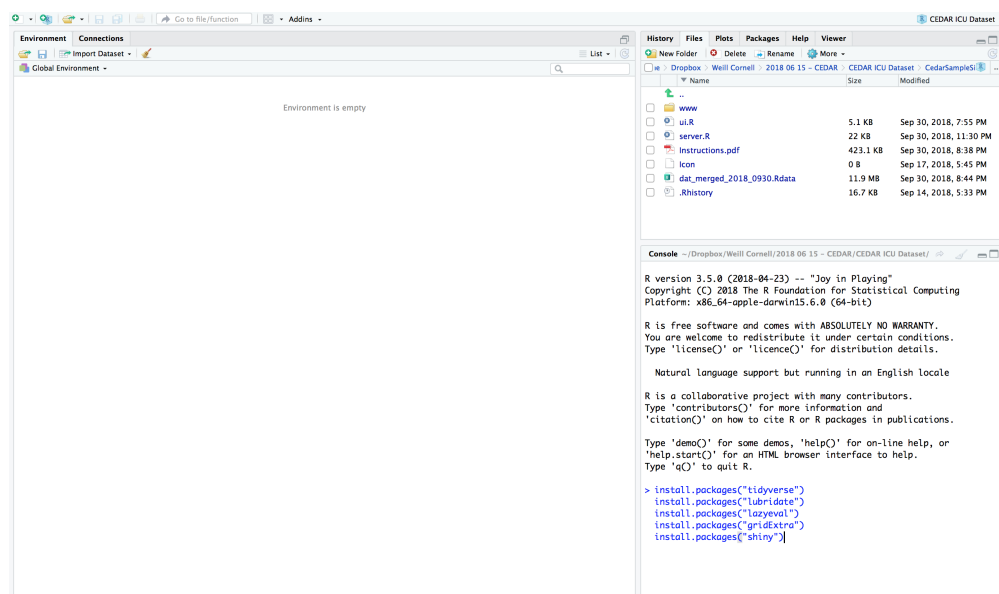*Clara Oromendia*

12/5/2018

R and R Studio

In order to run the Shiny App in the Box folder, you will first need to install R and then R Studio (in that order). If you have older versions of either of these programs you should remove these before installing the latest version.

1. Install R from https://cran.rstudio.com
2. Install R Studio (Desktop, open source) from https://www.rstudio.com/products/rstudio/download

This short video goes through these steps, although the versions have updated since: video

Once you have these installed these, open **R studio** and type in the following code into the console:
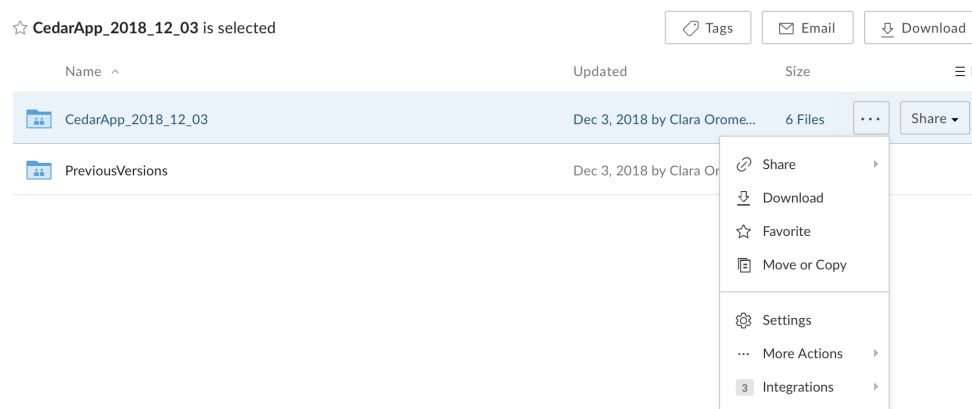
```
install.packages("tidyverse")
install.packages("lubridate")
install.packages("lazyeval")
install.packages("gridExtra")
install.packages("shiny")
```


This will take a few minutes as you download the required function to run the application. Check the console to make sure any errors are resolved, then move on to running the app in the next section.
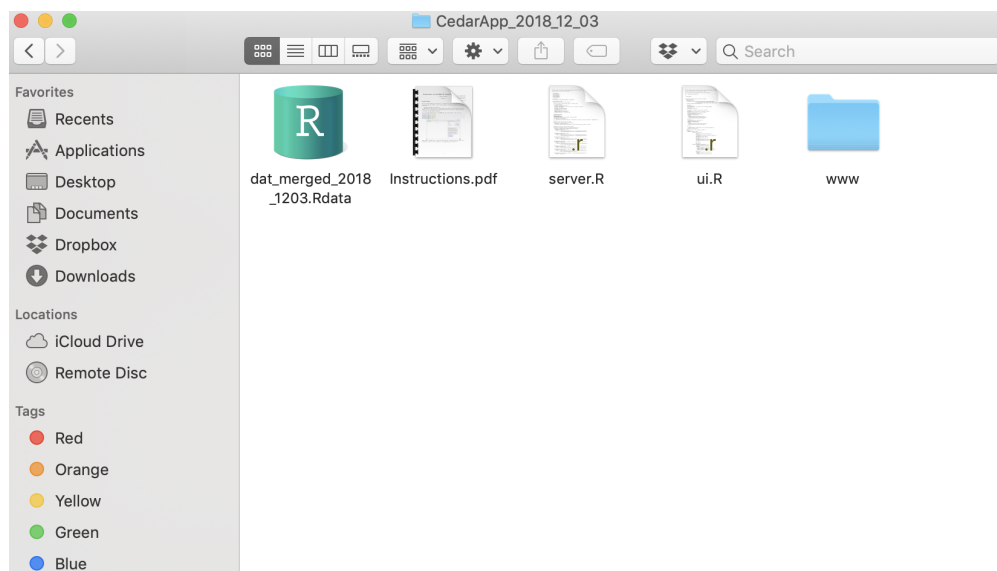
Downloading the Files

To download the necessary files, go to WCM Box and download the latest version of the folder `CEDARApp_[DATE]`. Make sure you download the entire folder, with all files included.
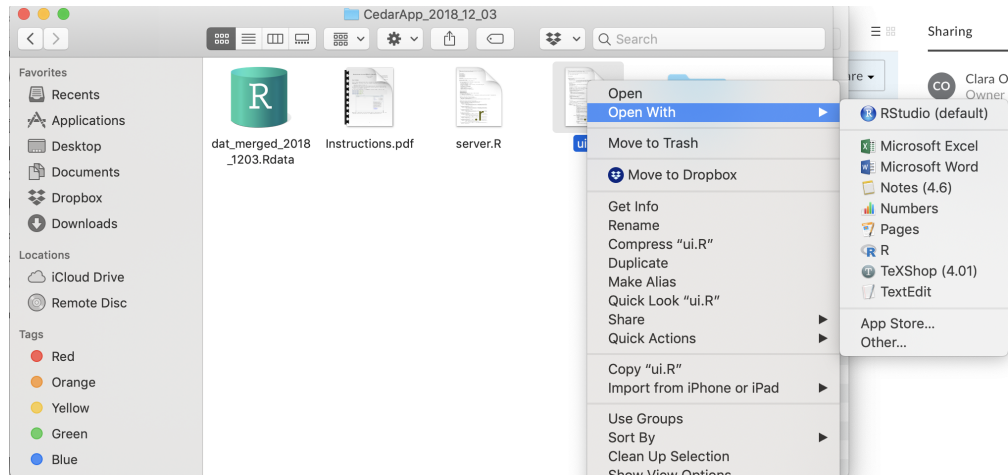

The folder will now be in your `Downloads` folder, but you may wish to move it to a more appropriate place in your hard drive. You may change the name of the folder, but the app will not work if you change or remove any of the files inside of it.
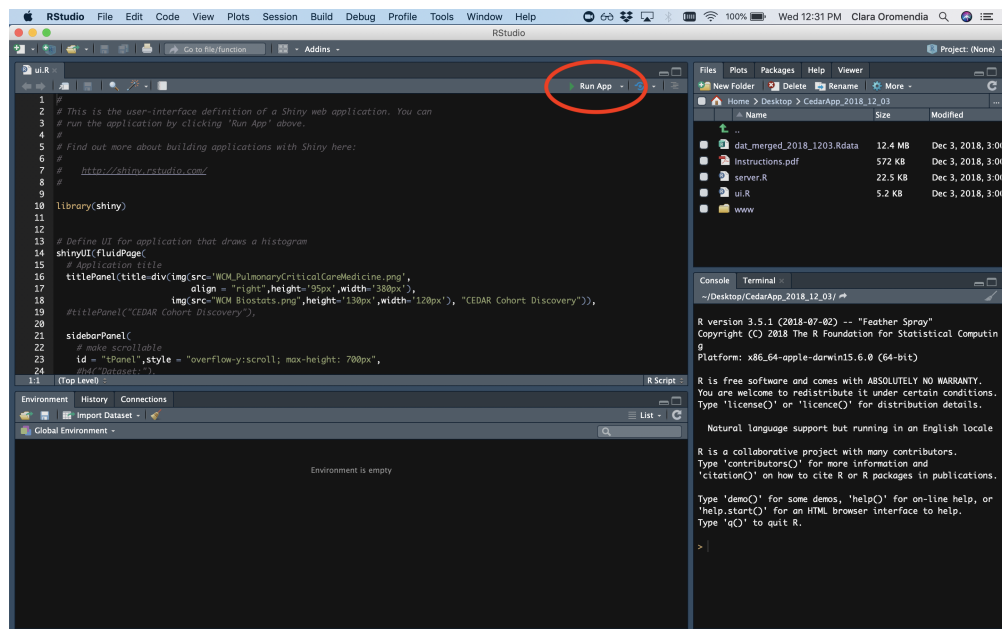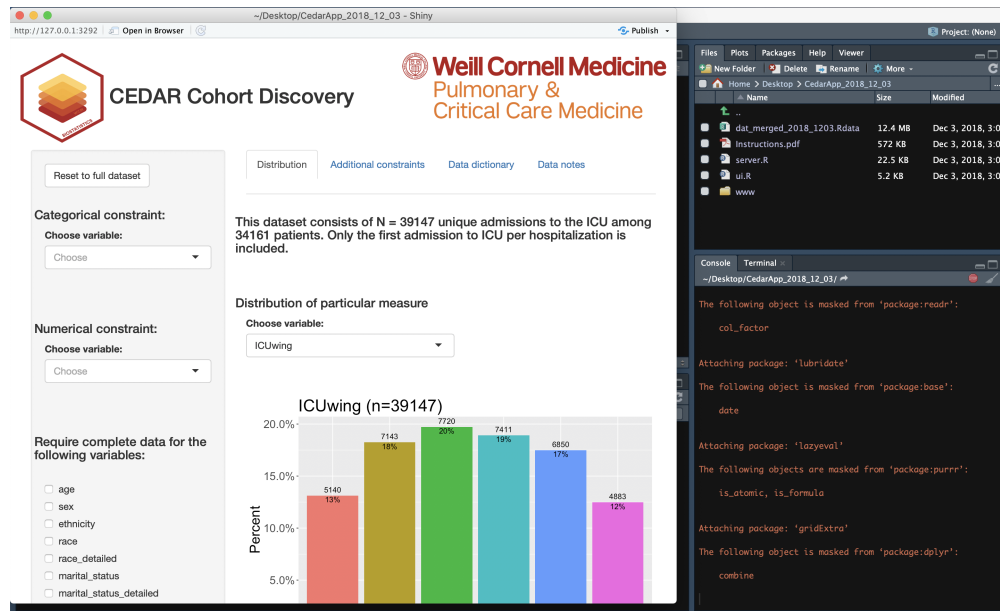
The folder should look like this:

Running the App

Once you have the folder in your computer, right click on the `ui.R` file and select to open it in RStudio (Note that it may not be the default in your machine). Don't worry, you do not need to write anything in this file, or even understand it.

RStudio will now open, and a button will appear near the top middle of the windwo that says `Run App`, with a green triangle. Click this, and R Studio will launch the application.

At this point (if all goes well), the app should run and a new window should pop up. Give it a few seconds to load, and it should look similar to this:

If there are any errors or the app does not properly load, a message will be displayed in the "Console" tab in R Studio. In this case, please copy the message (or take a screen shot) so we can figure out what is happening.

You are now ready to play! The left panel allows you to subset the data, and the main plot shows the distribution of any chosen variable. Notes on the dataset and availability of variables can be found in the "Data Notes" tab. You can also make the window full screen, or Open in Browser.

The app can be closed by simply exiting that window or pressing the red stop-sign button in the R Studio console.

Email Clara Oromendia (mco2004@med.cornell.edu) with any questions or suggestions.