Draft\_expected\_bed\_usage\_20200402

Gabriel Odom

4/2/2020

## Python Setup

We install the R package reticulate with the following commands:

install.packages("reticulate")

**MAKE SURE YOU HAVE NO OTHER INSTANCES OF RSTUDIO OPEN, AND MAKE SURE THAT YOU HAVE SAVED ALL OF YOUR WORK.** The first time we load this library, we are asked if we want to install [Miniconda](https://docs.conda.io/en/latest/miniconda.html). We say yes. Unfortunately, the install from within RStudio isn’t perfect. At the end, you will see the message “Miniconda has been successfully installed at ”. After that, you have to stop RStudio’s work by restarting.

library(reticulate)

We can run Python code with the following:

# import numpy as np  
print("Hello, World")

## Hello, World

To hide code and only show output, add the chunk option echo = FALSE:

## sys.version\_info(major=2, minor=7, micro=16, releaselevel='final', serial=0)

### Return to R Code

Right now, if we were running this code interactively, then our prompt is a python prompt. We get back to R by calling a code chunk with R again. Also, we could use the python command quit (with no parentheses) to escape the python command prompt.

"And we're back"

## [1] "And we're back"

## R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

summary(cars)

## speed dist   
## Min. : 4.0 Min. : 2.00   
## 1st Qu.:12.0 1st Qu.: 26.00   
## Median :15.0 Median : 36.00   
## Mean :15.4 Mean : 42.98   
## 3rd Qu.:19.0 3rd Qu.: 56.00   
## Max. :25.0 Max. :120.00

## Including Plots

You can also embed plots, for example:



Note that the echo = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.