## Assignment 1 Basic

## Jeff Good

January 14, 2020

```
#Assignment 1: Basics
#Jeff Good
#January 16, 2020
#getwd()
#?setwd
#("/Users/jeffr/Documents/College of Charleston/Classes/Quantitative
      #Methods")
#getwd()
tgpp<-read.csv("./tgpp.csv")</pre>
#tgpp#This dataset represents the vascular plant species richness that was
#collected from the Tallgrass Prairie Preserve from 10 \times 10 m quadrats.
#Species richness is simply the number of species that occur within a quadrat
#Questions:
#1.
#Names of the columns: Plot, Year, Record ID, Corner, Scale, Richness,
#Easting, Northing, Slope, pH, Yrsslb
#2.
nrow(tgpp)#count rows of selected data set
## [1] 4080
ncol(tgpp)#count columns of selected data set
## [1] 11
#Number of rows and columns:[4080,11]
#3.
sapply(tgpp,class) # How to find the object type of each column
##
                  year record id
                                                scale richness
        plot
                                    corner
                                                                  easting
## "integer" "integer" "integer" "integer" "numeric" "integer" "integer"
                 slope
## northing
                              ph
                                    yrsslb
```

## "integer" "integer" "numeric" "numeric"

## 8

194 727000 6.9

```
#Values at rows 1,5,8 at columns 3,7,10:
    #record_id easting ph
    #1    187   727000 6.9
    #5    191   727000 6.9
    #8    194   727000 6.9

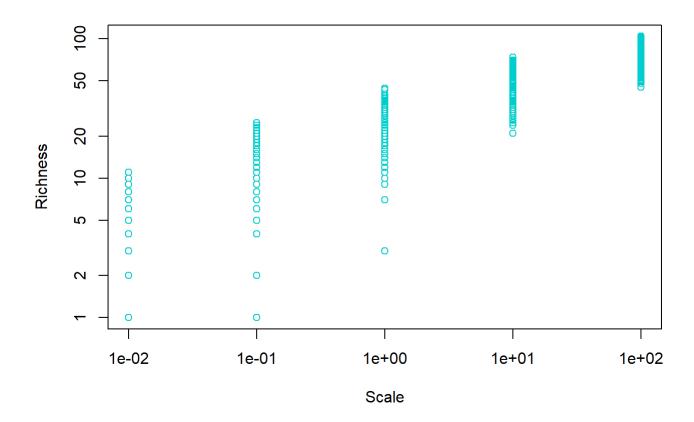
#5.
getwd()
```

## [1] "C:/Users/jeffr/Documents/College of Charleston/Classes/Quantitative Methods/Basics"

```
pdf('./Scale_fig1.pdf')
plot(tgpp$scale, tgpp$richness, xlab='Scale', ylab='Richness', col='cyan3')
dev.off()
```

```
## png
## 2
```

```
## Warning in xy.coords(x, y, xlabel, ylabel, log): 4 y values <= 0 omitted
## from logarithmic plot</pre>
```



#X axis is converted to a log scale and is graphically represented

knitr::opts\_chunk\$set(echo = TRUE)