

Eider Feathers Figure Practice #1

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```
#setwd
setwd("C:/Users/frank/OneDrive/Desktop/R CSVs")

#Read CSV

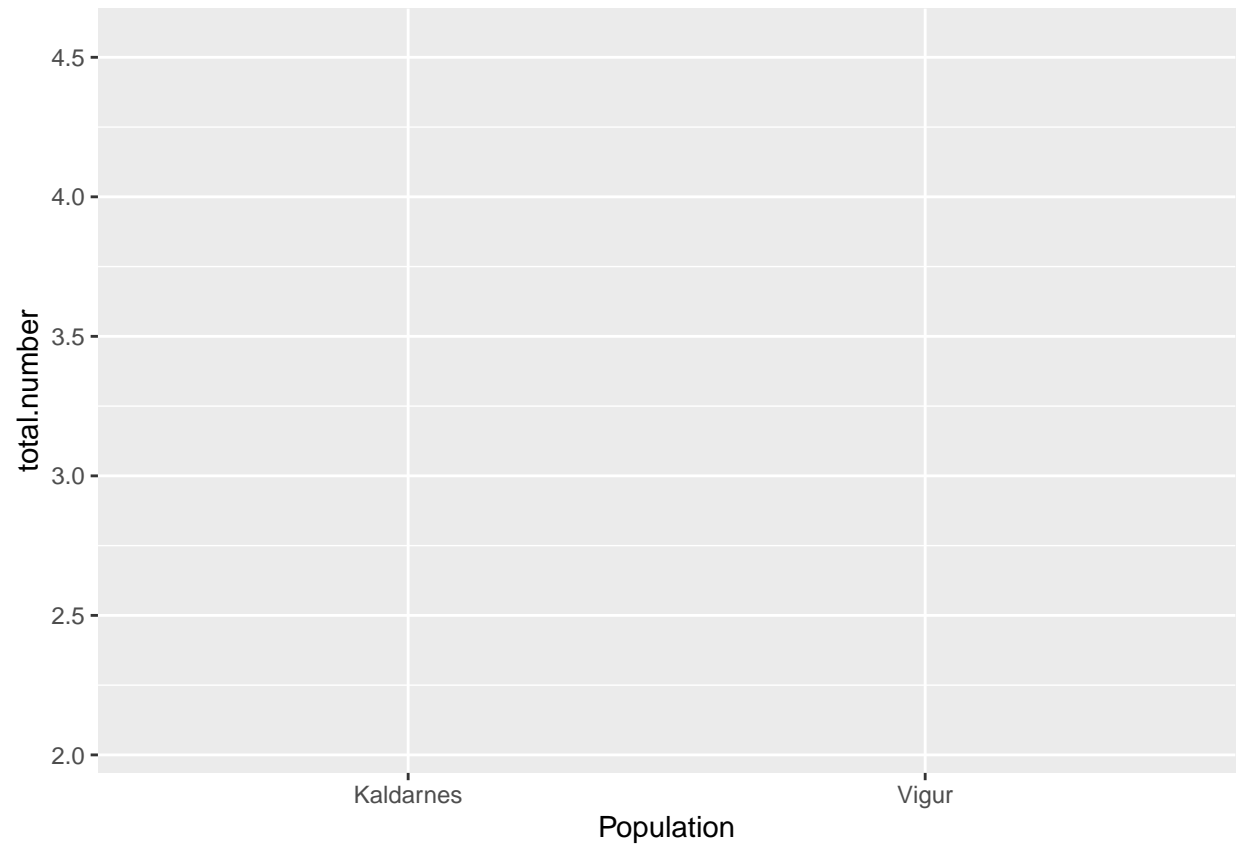
eider<-read.csv("eider.down.csv", fileEncoding="UTF-8-BOM")

#Create data.frame
eider.df<-data.frame(eider)

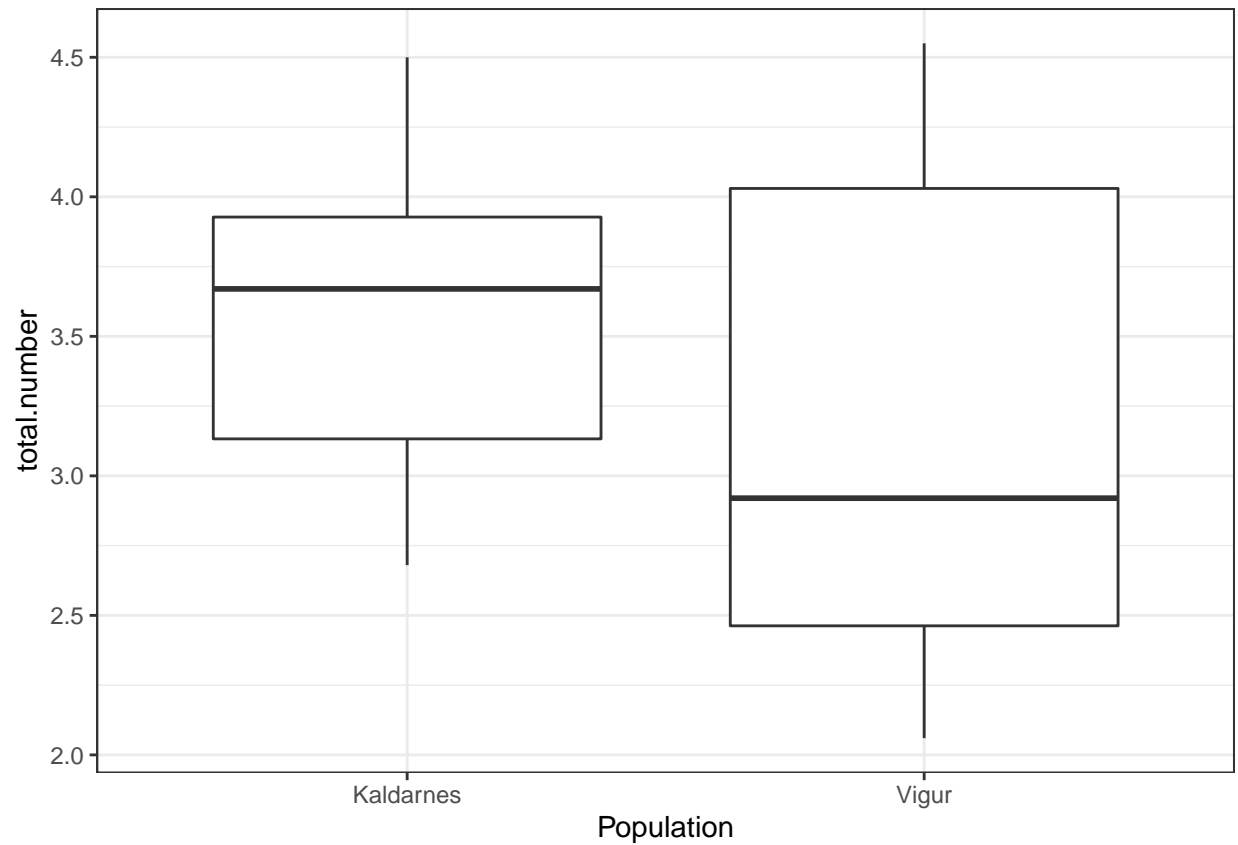
#remove excess rows (not sure why they read this way)
eider.df1<- eider.df[-c(21:43),]

#load ggplot
library(ggplot2)
library(colorspace)

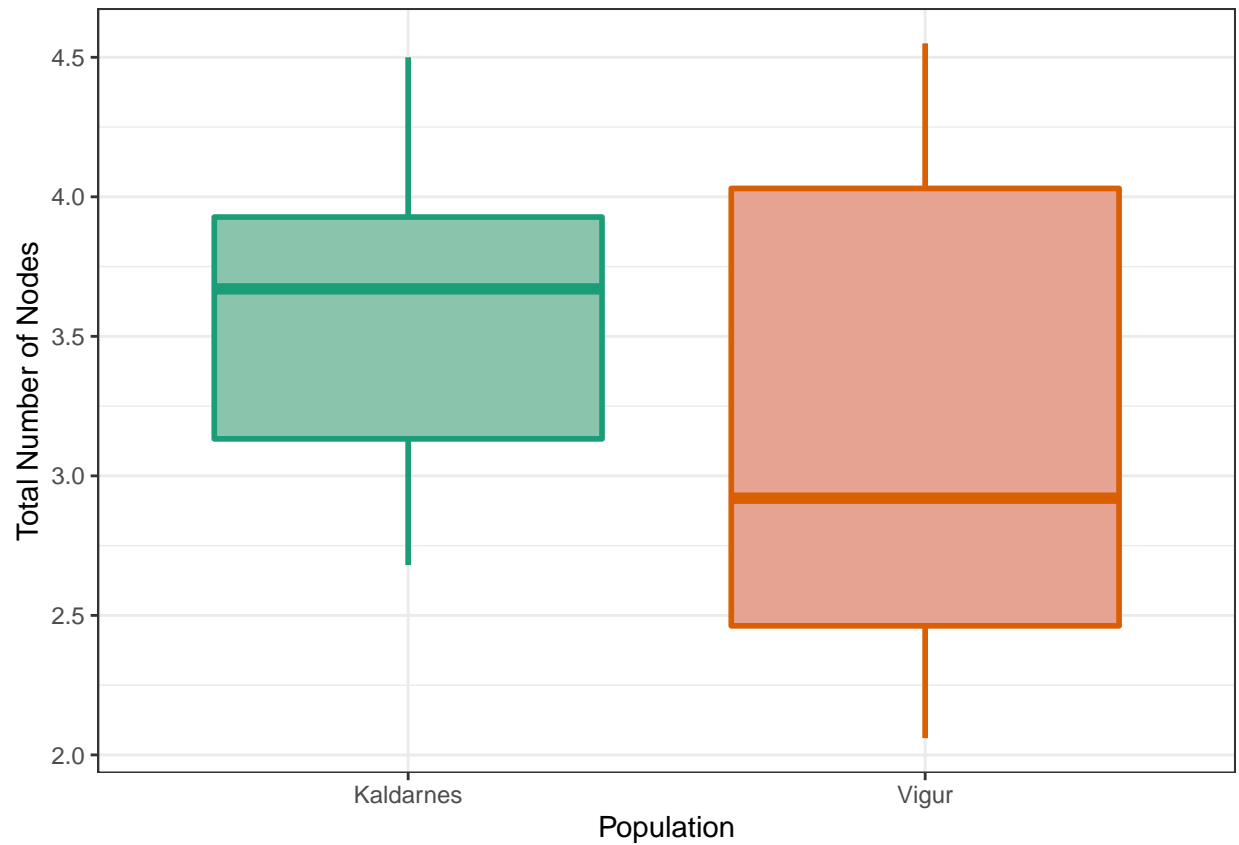
#Set ggplot Population vs total number of nodes
(g <- ggplot(eider.df1, aes(x = Population, y = total.number)))
```



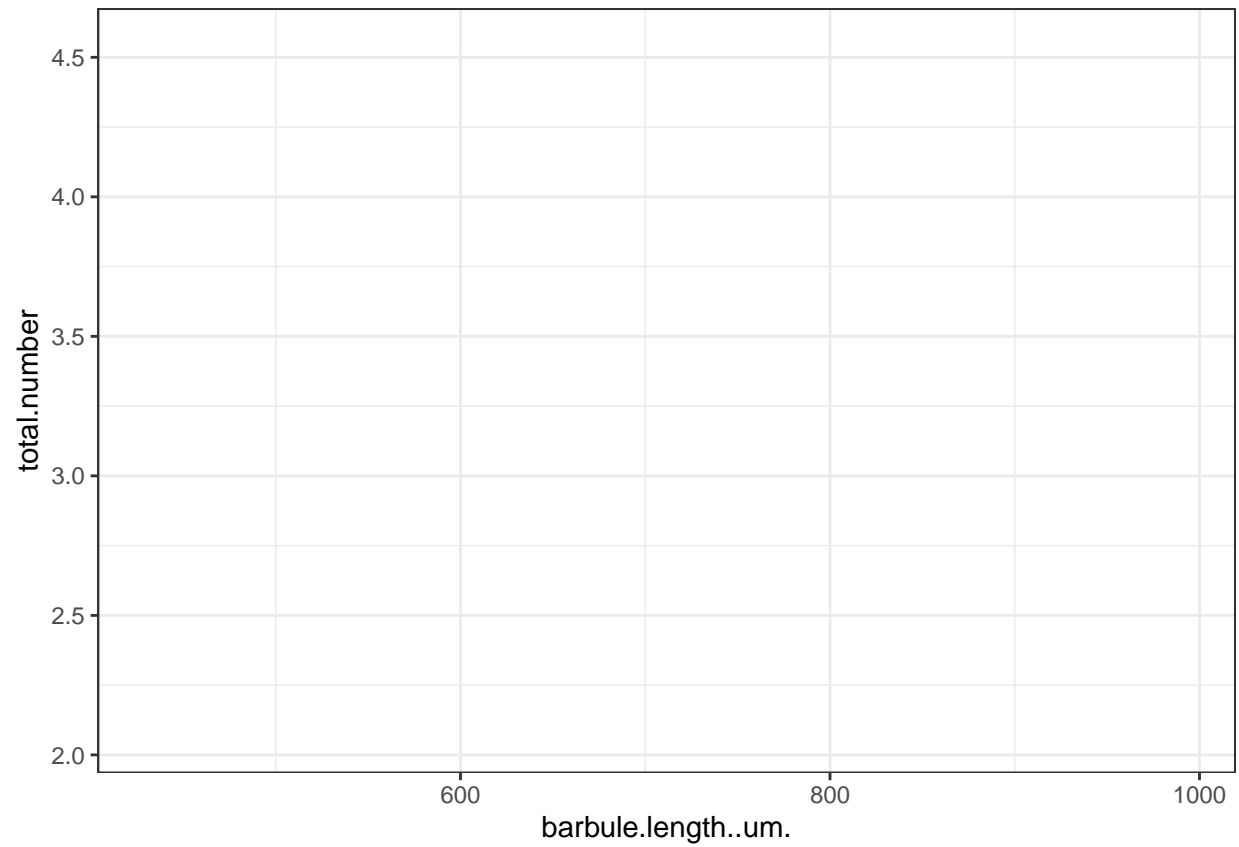
```
#set theme  
theme_set(theme_bw())  
  
#basic boxplot  
g + geom_boxplot()
```



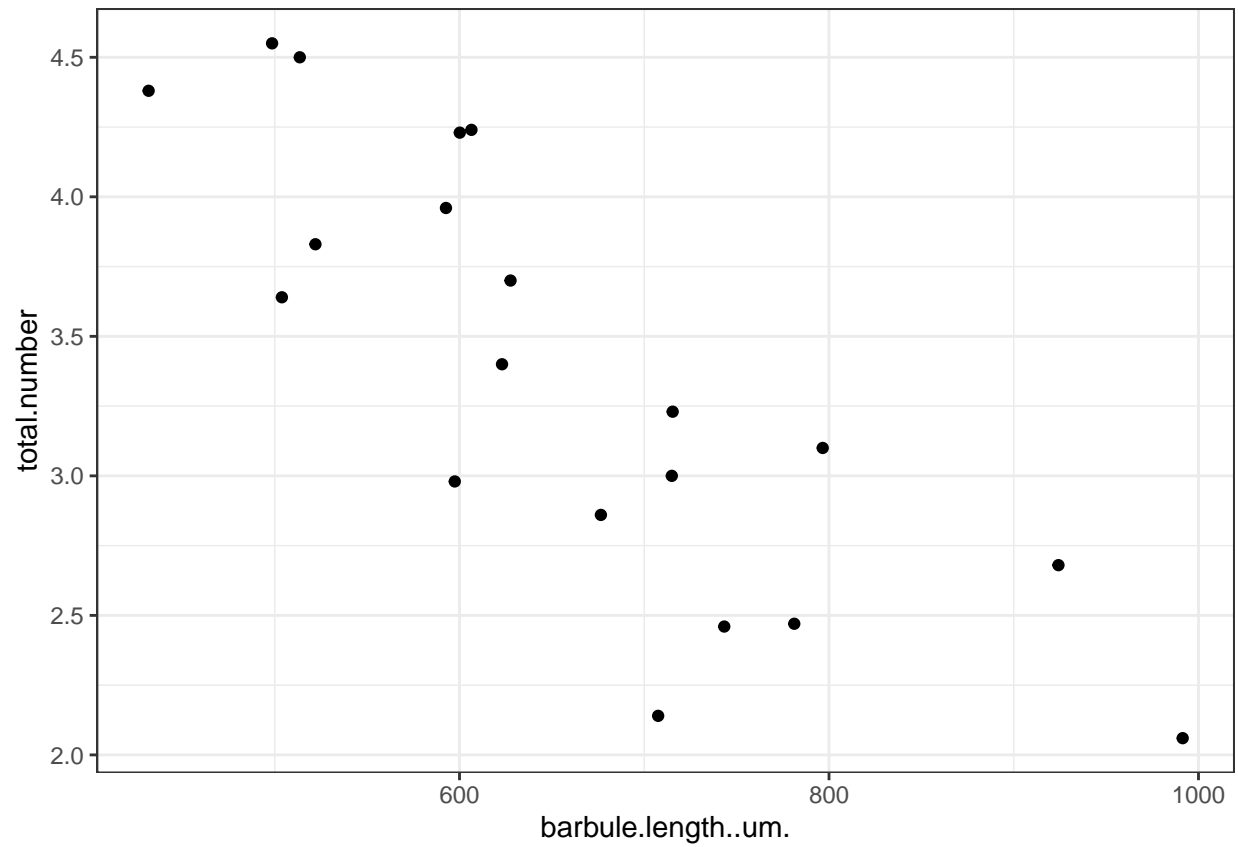
```
#add color and labels  
g + geom_boxplot(aes(color = Population, fill = after_scale(desaturate(lighten(color, .4), .4))),  
  scale_color_brewer(palette = "Dark2", guide = "none") +  
  labs(x = "Population", y = "Total Number of Nodes"))
```



```
#Creating a geom_point plot with trendline for barbule lenght vs number of nodes  
#creating ggplot  
(h <- ggplot(eider.df1, aes(x = barbule.length..um., y = total.number)))
```



```
#graphing as geom_point  
h+geom_point()
```



```
#adding red trend line
h+geom_point()+
  geom_smooth(method="lm", se=TRUE, color="red", formula=y~x)+
  labs(x="Length of Barbule (nm)", y = "Total Number of Nodes")
```

