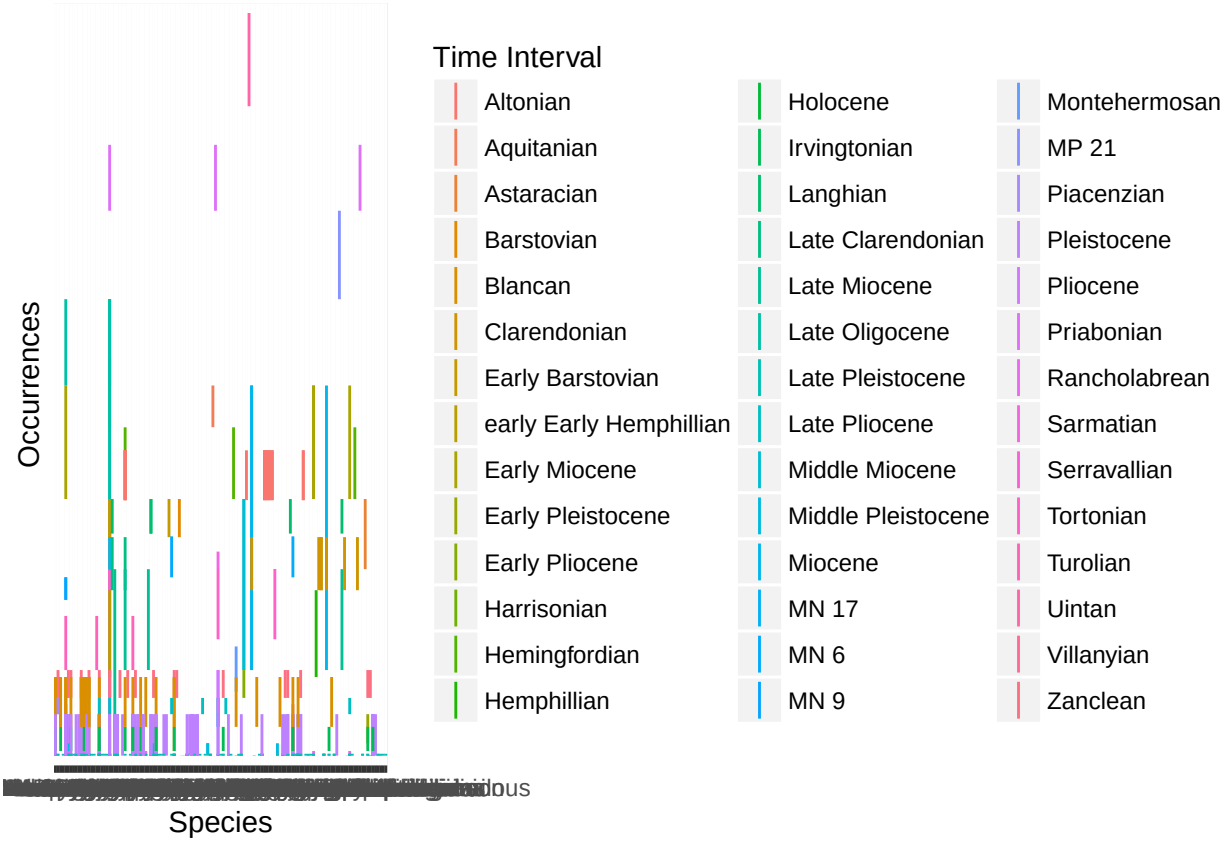
Figure 2

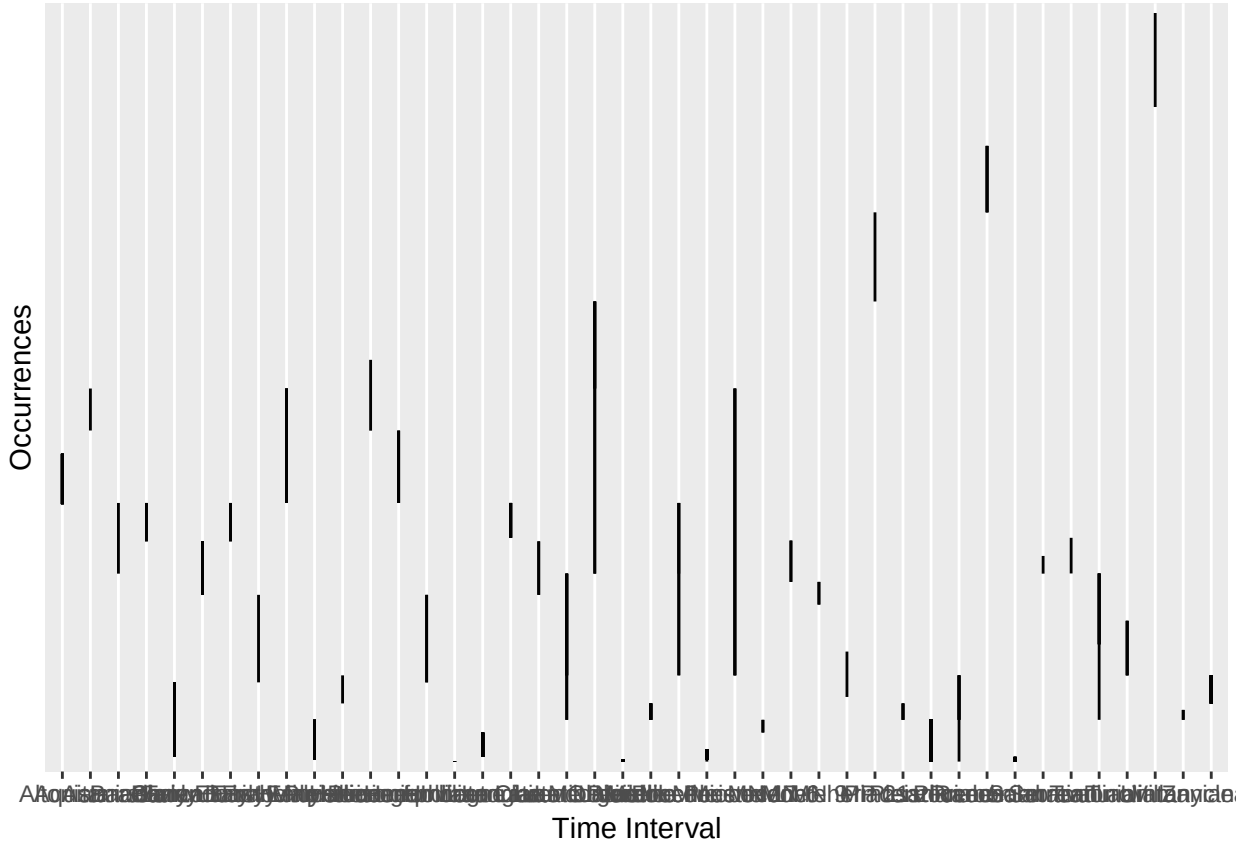
Haily Kil

March 10, 2017

```
library(ggplot2)
setwd("/home/eeb177-student/Desktop/eeb-177/eeb-177-final-project/final/")
anatidae <- read.csv("/home/eeb177-student/Desktop/eeb-177/eeb-177-final-project/final/anatidae_1.csv",

anatidae_occ <- ggplot(anatidae, aes(V6, ymin = V12, ymax = V11, color = V9))
anatidae_occ <- anatidae_occ + geom_linerange()
anatidae_occ + scale_x_discrete(name="Species") + scale_y_discrete(name="Occurrences") + scale_color_di
```

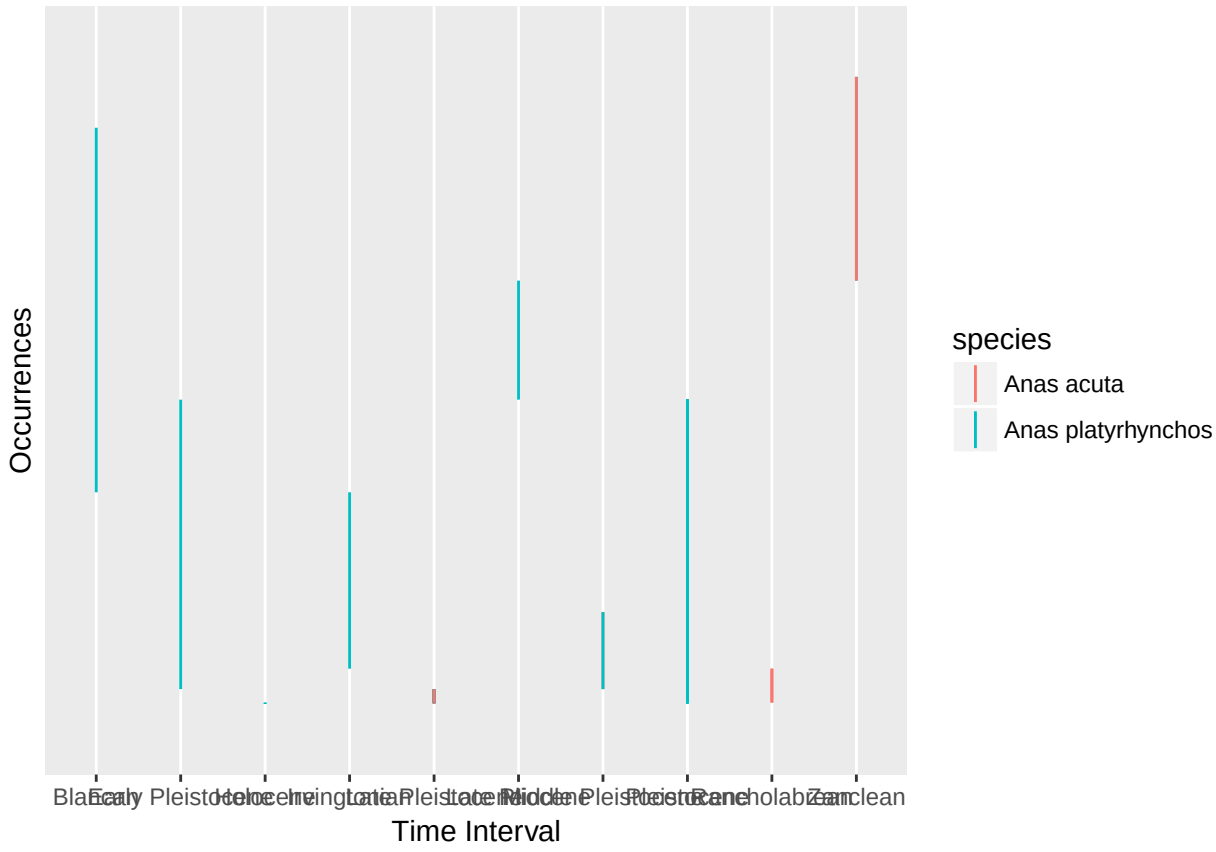



```
library(ggplot2)
setwd("/home/eeb177-student/Desktop/eeb-177/eeb-177-final-project/final/")
p1 <- read.csv("/home/eeb177-student/Desktop/eeb-177/eeb-177-final-project/final/anatidae_1.csv", heade

p1 <- ggplot(p1, aes(V9, ymin = V12, ymax = V11))
p1 <- p1 + geom_linerange()
p1 + scale_x_discrete(name="Time Interval") + scale_y_discrete(name="Occurrences")
```

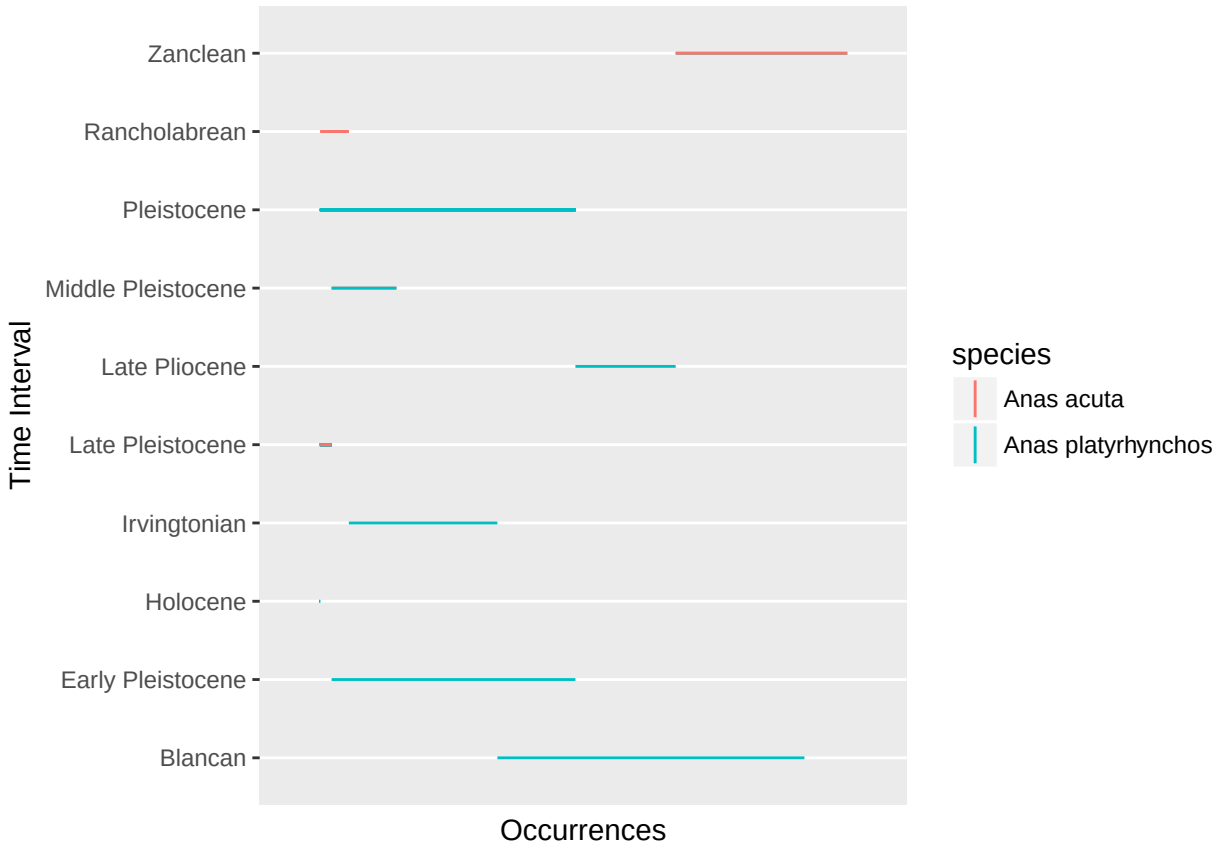



```
p1 <- p1 + coord_flip()
```

```
library(ggplot2)
setwd("/home/eeb177-student/Desktop/eeb-177/eeb-177-final-project/final/")
p2 <- read.csv("/home/eeb177-student/Desktop/eeb-177/eeb-177-final-project/final/2birds.csv", header = T

p2 <- ggplot(p2, aes(V9, ymin = V12, ymax = V11, color=V6))
p2 <- p2 + geom_linerange()
p2 + scale_x_discrete(name="Time Interval") + scale_y_discrete(name="Occurrences") + scale_color_discre
```




```
p2 <- p2 + coord_flip()
p2 + scale_x_discrete(name="Time Interval") + scale_y_discrete(name="Occurrences") + scale_color_discre
```


Zanclean
Rancholabrean
Pleistocene
Middle Pleistocene
Late Pliocene
Late Pleistocene
Irvingtonian
Holocene
Early Pleistocene
Blancan
Time Interval
Occurrences
species
Anas acuta
Anas platyrhynchos