

week-8-hw

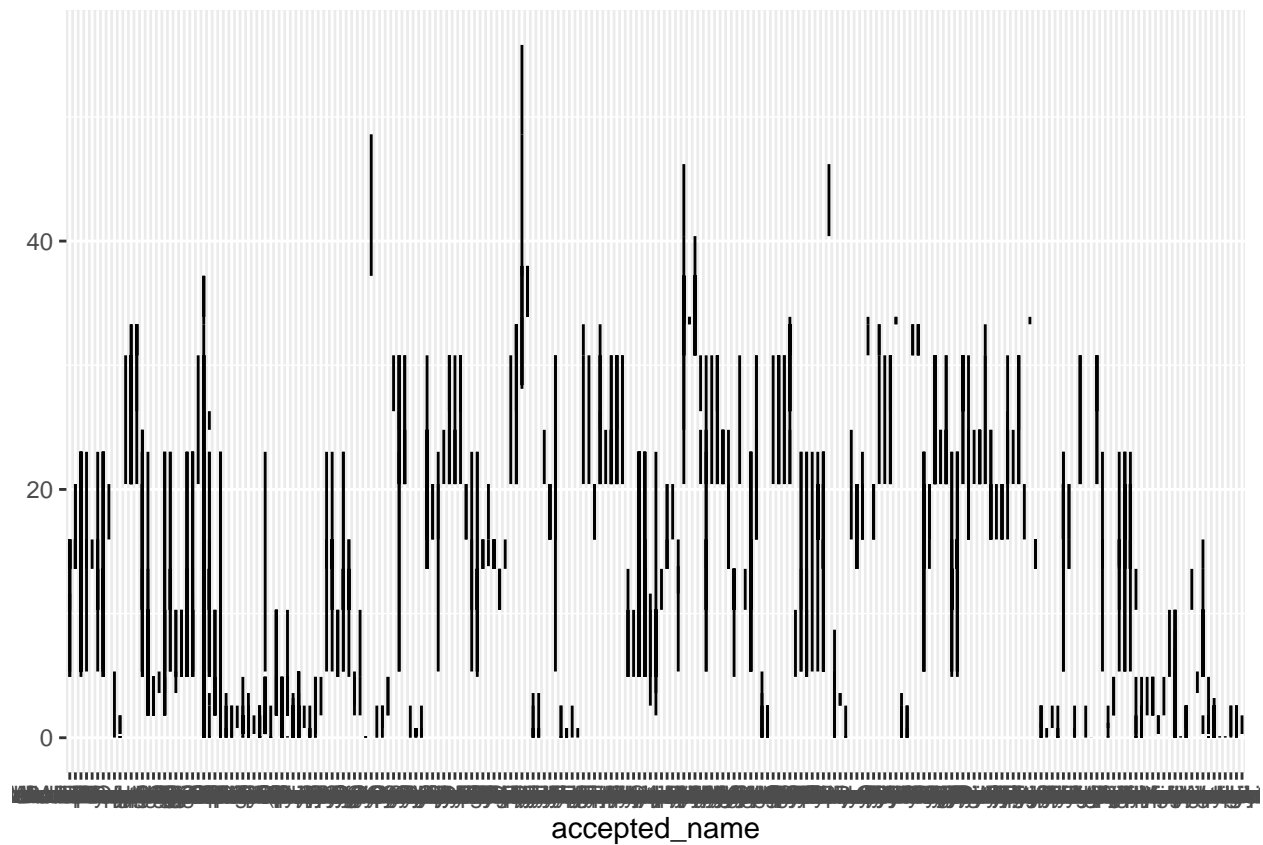
Haily Kil

March 6, 2017

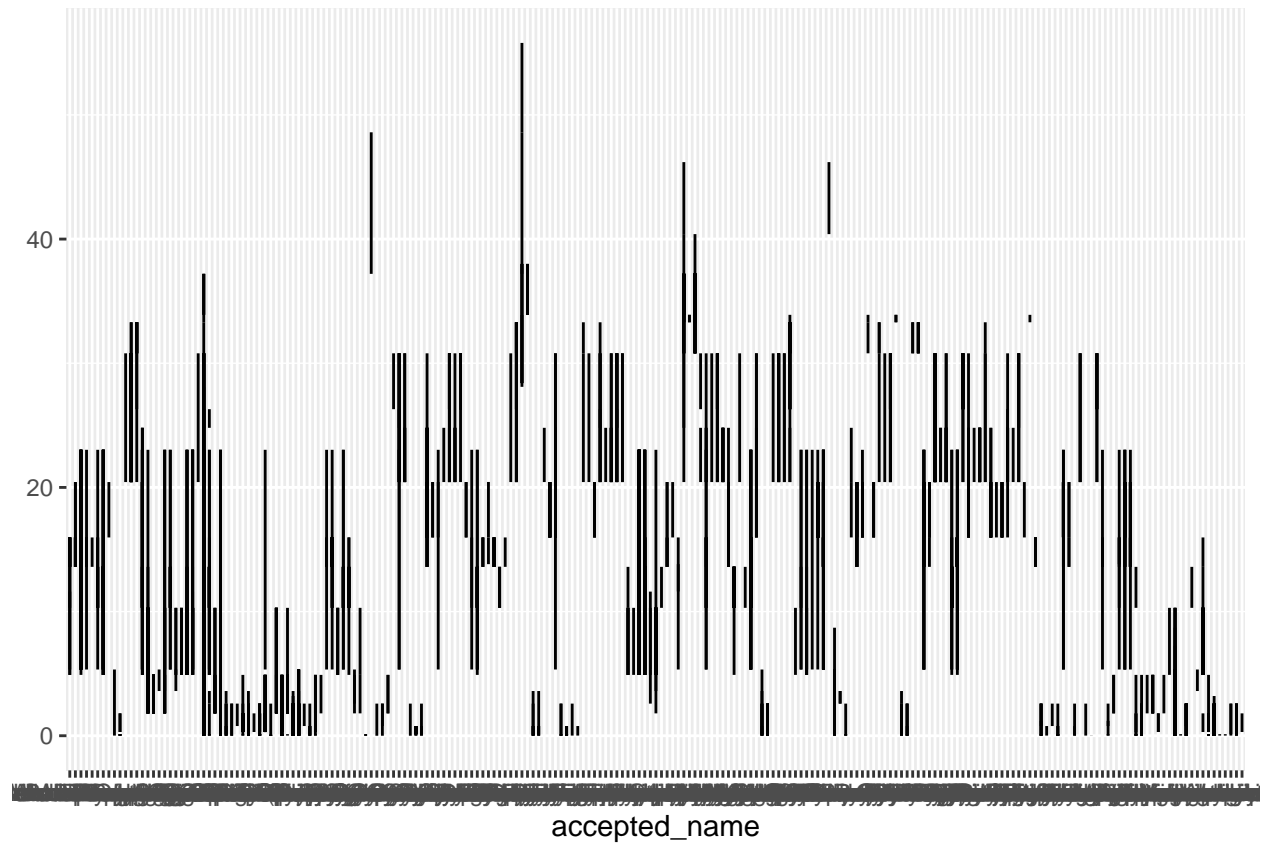
```
library(ggplot2)
setwd("/home/eeb177-student/Desktop/eeb-177/homework-folder/week-8-hw/")
canid <- read.csv("/home/eeb177-student/Desktop/eeb-177/homework-folder/week-8-hw/canids_3.csv", header
names(canid) <- c("occurrence_no", "record_type", "reid_no", "flags", "collection_no", "accepted_name",
head(canid)

##      occurrence_no record_type reid_no flags collection_no
## 1          117266         occ      NA    NA          9070
## 2          150070         occ      NA    NA          13293
## 3          176227         occ    3083    NA          16626
## 4          176384         occ      NA    NA          16647
## 5          177551         occ      NA    NA          16840
## 6          177611         occ    3336    NA          16845
##      accepted_name accepted_rank accepted_no      early_interval
## 1 Cynodictis lacustris      species    349281      Late Eocene
## 2              Cuon          genus    41204 Middle Pleistocene
## 3      Hesperocyon          genus    41217      Late Uintan
## 4 Neovulpavus washakius      species    49147          Uintan
## 5      Hesperocyon          genus    41217      Duchesnean
## 6 Hesperocyon gregarius      species    44845      Duchesnean
##      late_interval max_ma  min_ma    NA
## 1              37.200 33.9000 11154
## 2 Late Pleistocene  0.781  0.0117 4412
## 3              46.200 40.4000 1139
## 4              46.200 40.4000 2495
## 5      Chadronian 40.400 33.9000 3359
## 6              40.400 37.2000 6226

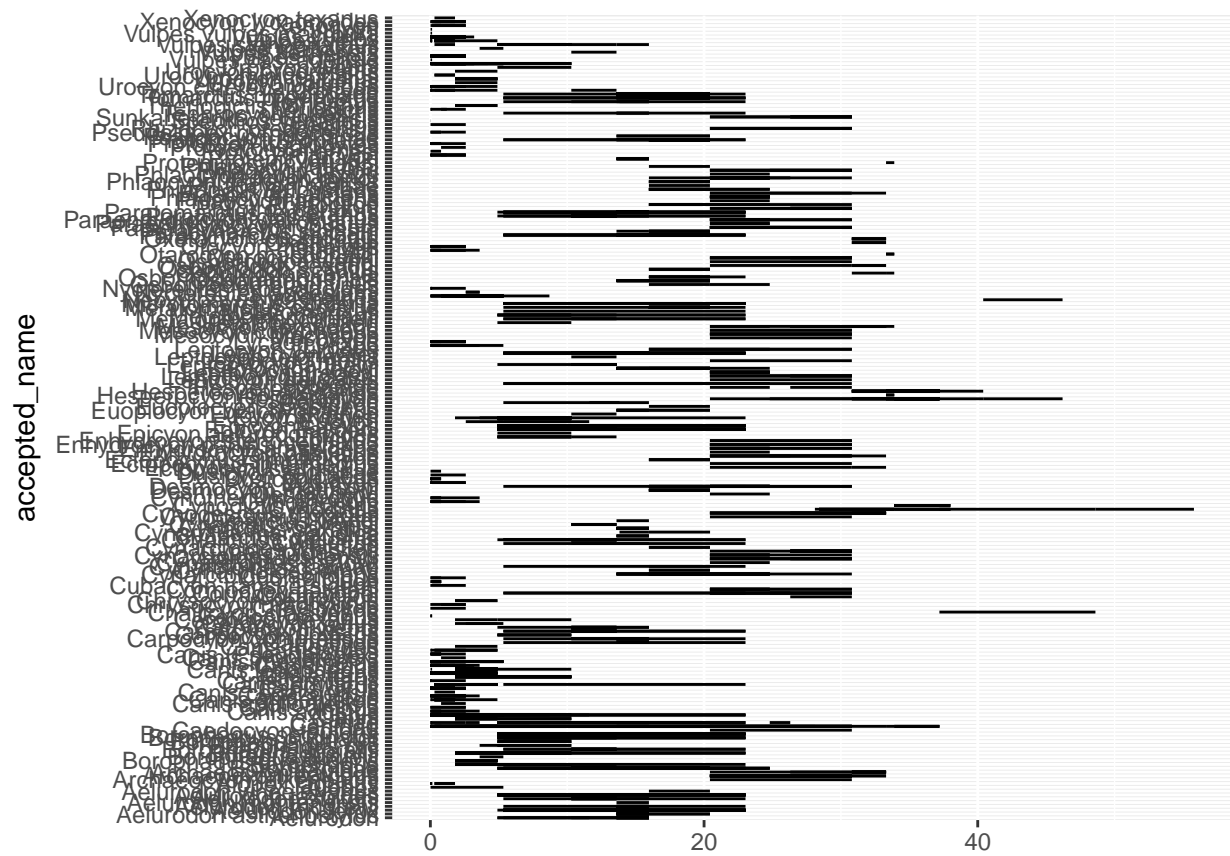
canid_occ <- ggplot(canid, aes(accepted_name, ymax =max_ma, ymin=min_ma), color = accepted_rank)
canid_occ <- canid_occ + geom_linerange()
canid_occ
```



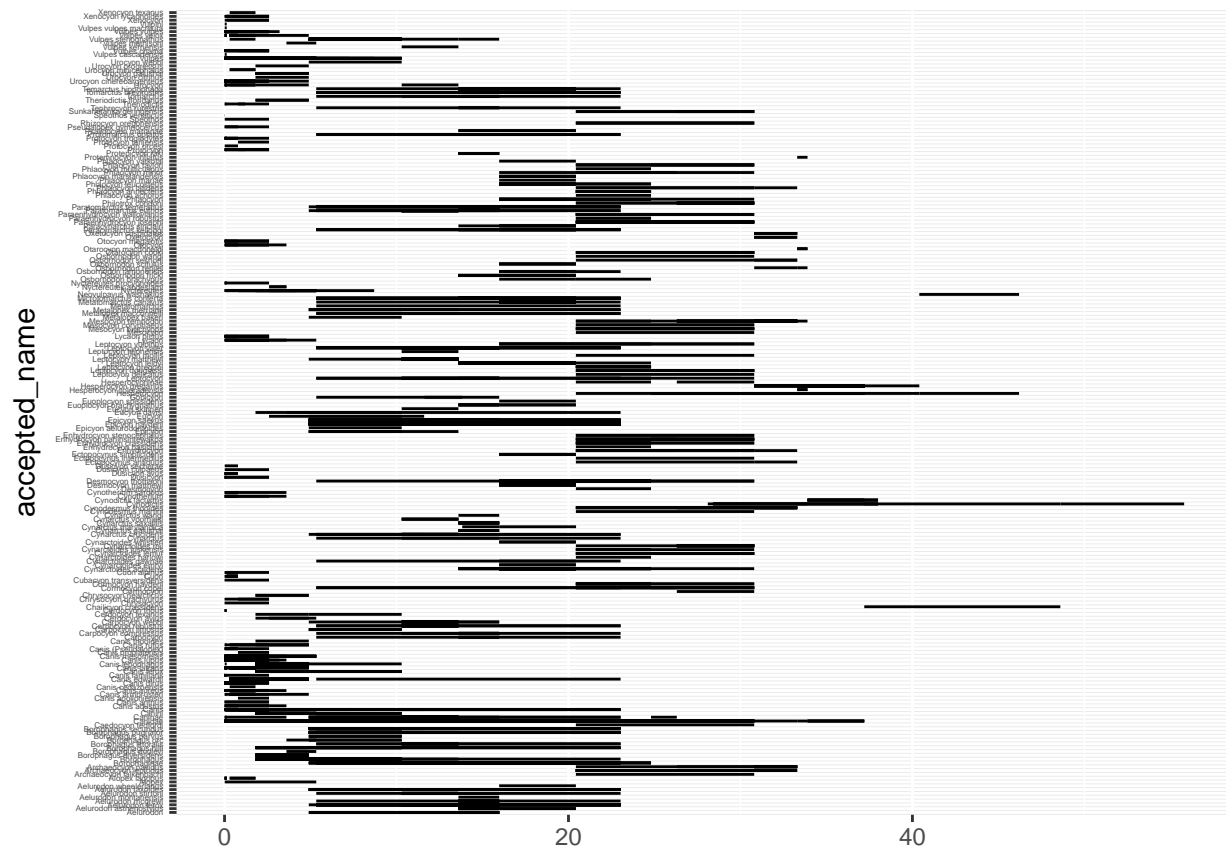
```
canid_occ <- canid_occ + theme(legend.position="none")  
canid_occ
```



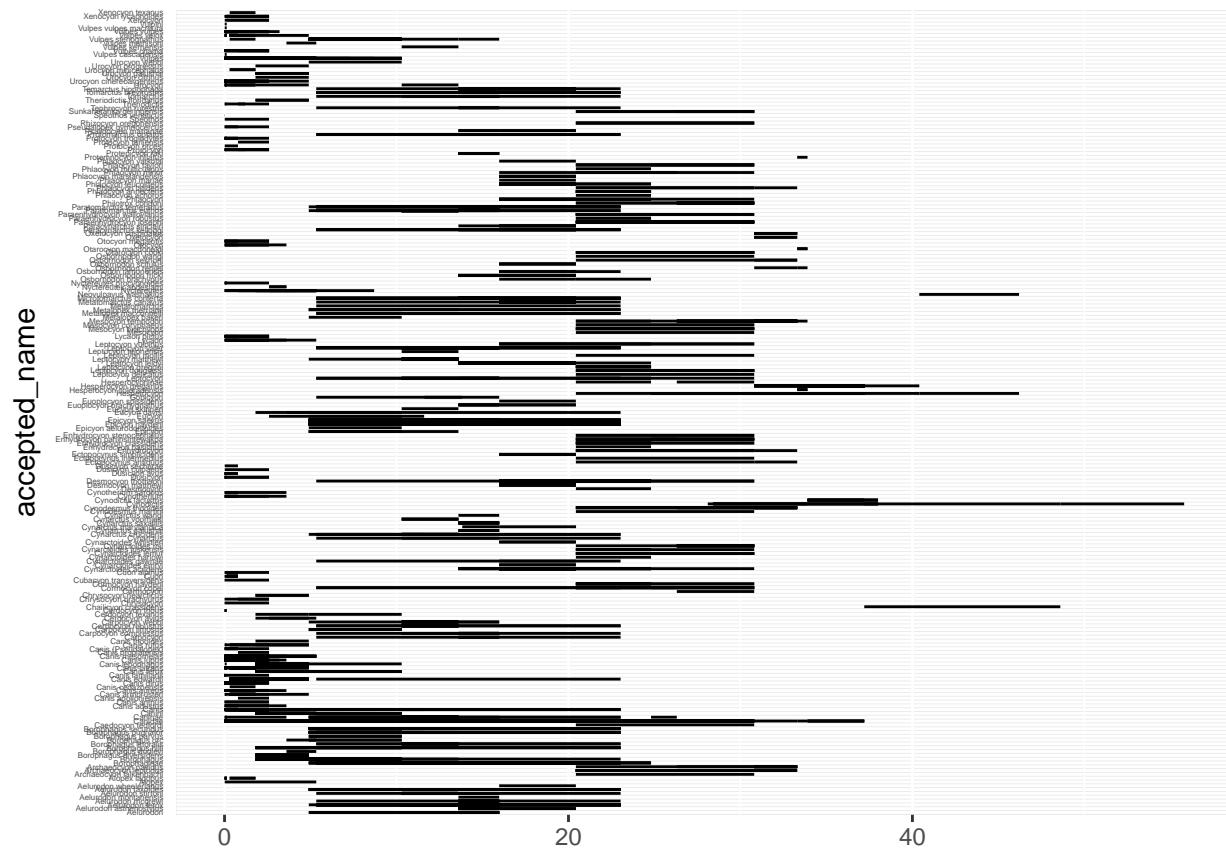
```
canid_occ <- canid_occ + coord_flip()  
canid_occ
```



```
canid_occ <- canid_occ + theme(axis.text.y = element_text(size=3))
canid_occ
```



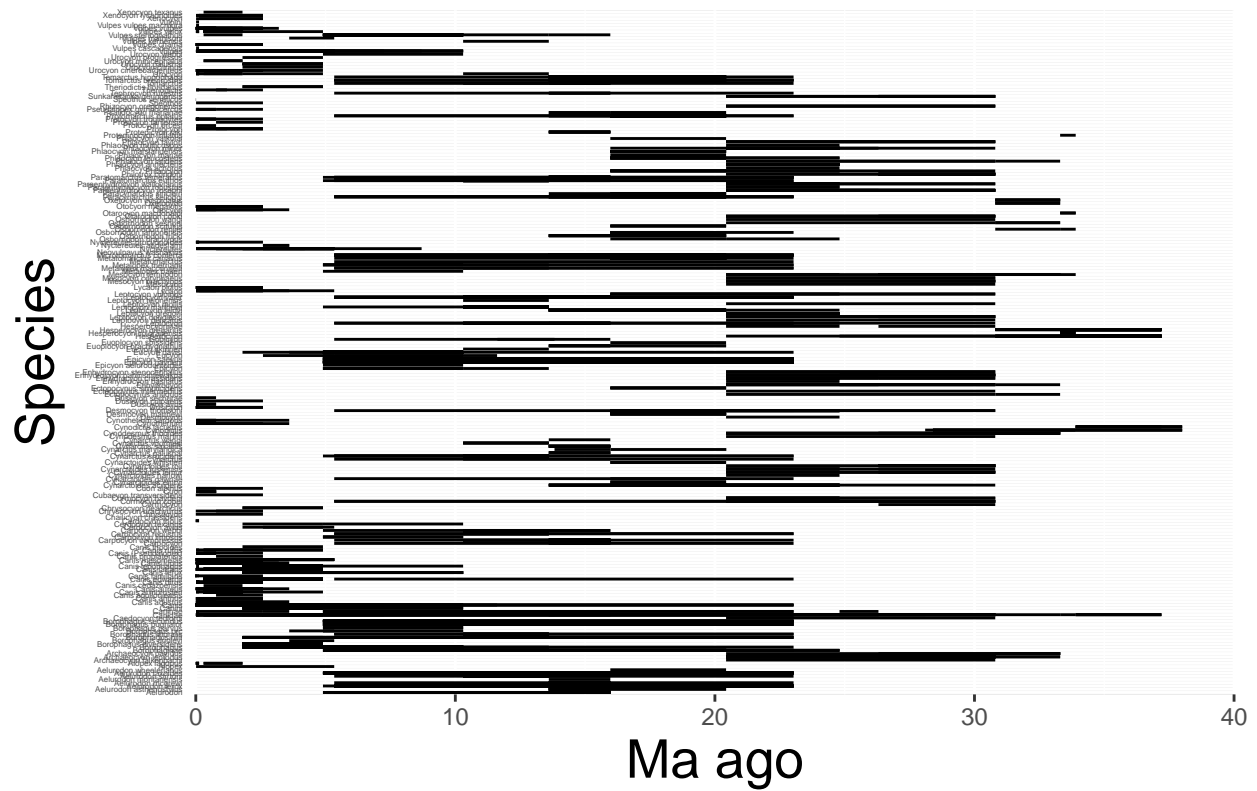
```
canid_occ <- canid_occ + theme(axis.ticks.y=element_blank())
canid_occ
```



```
canid_occ <- canid_occ + scale_y_continuous(limits=c(0, 40), expand = c(0, 0), breaks=c(0, 10, 20, 30, 40))
canid_occ
```

```
## Warning: Removed 7 rows containing missing values (geom_linerange).
```


Canid Fossil Occurrences



canids

uniq species = 211

uniq genera = 614?

4. what species has the longest... what?