First Letters in Pet Names

```
library(tidyverse)
library(dplyr)
# Read and display data
seattle_pets <- readr::read_csv(paste0("https://raw.githubusercontent.com/",</pre>
                "rfordatascience/tidytuesday/master/data/",
                "2019/2019-03-26/seattle_pets.csv"))
# Dataset variables
colnames(seattle_pets)
## [1] "license_issue_date" "license_number"
                                                   "animals name"
## [4] "species"
                             "primary_breed"
                                                   "secondary_breed"
## [7] "zip_code"
head(seattle_pets[, 1:length(seattle_pets)])
## # A tibble: 6 x 7
    license_issue_d~ license_number animals_name species primary_breed
##
                                                    <chr>
                                                            <chr>
                      <chr>
                                      <chr>
## 1 November 16 2018 8002756
                                      Wall-E
                                                            Mixed Breed,~
                                                    Dog
## 2 November 11 2018 S124529
                                      Andre
                                                    Dog
                                                            Terrier, Jac~
## 3 November 21 2018 903793
                                      Mac
                                                    Dog
                                                            Retriever, L~
## 4 November 23 2018 824666
                                                    Cat
                                                            Domestic Sho~
                                      Melb
## 5 December 30 2018 S119138
                                                            Domestic Sho~
                                      Gingersnap
                                                    Cat
## 6 December 16 2018 S138529
                                      Cody
                                                    Dog
                                                            Retriever, L~
## # ... with 2 more variables: secondary_breed <chr>, zip_code <chr>
Add a column to data table corresponding to (capitalized) first letter in names, drop any NULL values, and
drop names which occur fewer than 3 times (this gets rid of all names not beginning with a letter of the
alphabet):
```

first_letter species

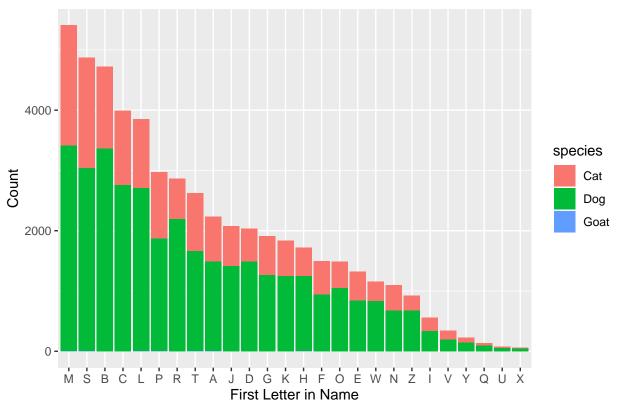
```
<chr>
##
                   <chr>>
                            <int>
## 1 A
                   Cat
                              743
## 2 A
                             1490
                   Dog
## 3 A
                                3
                   Goat
## 4 B
                   Cat
                             1356
## 5 B
                             3366
                   Dog
## 6 C
                   Cat
                             1234
```

Plot distribution of first letter in names

```
pets_grouped_plot <- pets_grouped %>%
    ggplot(aes(reorder(first_letter, -n, FUN = sum), n, fill = species)) +
    geom_col() +
    labs(x = "First Letter in Name", y = "Count") +
    ggtitle("First Letter Distribution in Pet Names")

print(pets_grouped_plot)
```

First Letter Distribution in Pet Names

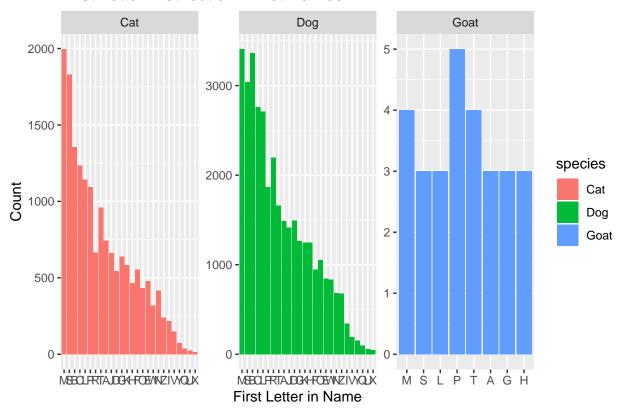


```
ggsave("firstLetterDistr.png")
```

Looking at each species separately with fancy facet plots:

```
pets_grouped_plot +
facet_wrap(~pets_grouped$species, scales = "free")
```

First Letter Distribution in Pet Names



ggsave("firstLetterFacets.png")