# Dogs & Intelligence

Stephanie Sun

2023-02-23

### Install and load packages

```
install.packages("tidyverse")
library(readr)
library(ggplot2)
library(dplyr)
```

#### SQL queried csv file imported

```
dogs <- read_csv("dog_intelligence_size_v3_R.csv")</pre>
```

## Analysis of Dataframe

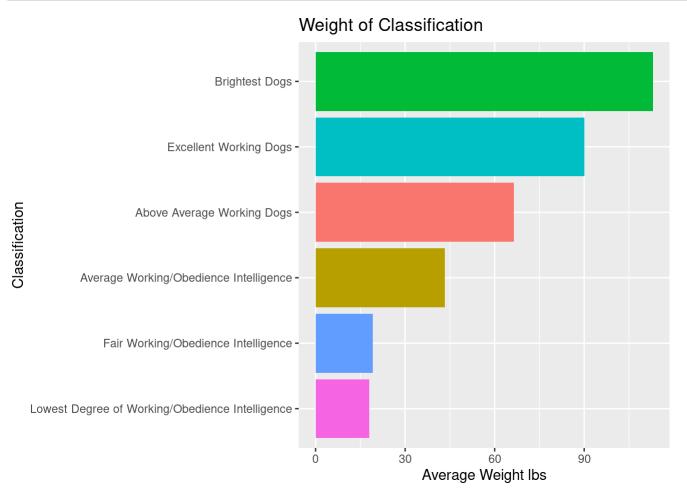
-started creating a dataframe consisting of average weight by classifitaion

which was used to create a bar graph to visualize average weight vs intelligence classification

```
class_weight <- dogs %>%
  group_by(classification) %>%
  summarize(avg_weight=mean(median_weight)) %>%
  arrange(desc(avg_weight))

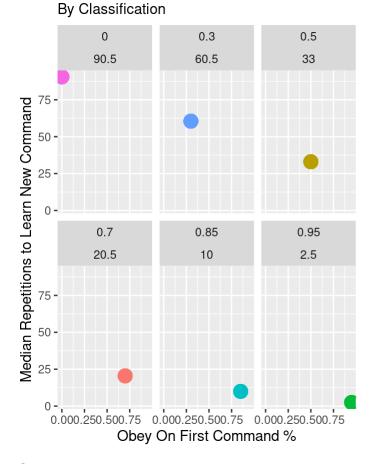
class_weight
```

```
## # A tibble: 6 × 2
     classification
                                                       avg_weight
     <chr>>
                                                            <dbl>
##
## 1 Brightest Dogs
                                                            113
## 2 Excellent Working Dogs
                                                             90
## 3 Above Average Working Dogs
                                                             66.5
## 4 Average Working/Obedience Intelligence
                                                             43.3
## 5 Fair Working/Obedience Intelligence
                                                             19.1
## 6 Lowest Degree of Working/Obedience Intelligence
                                                             18
```



-scatter plots created to illustrate relationship between obedience and repetitions, included classification in the plot because it groups dogs based on obedience and repetitions

#### Obey vs Reps



#### classification

- Above Average Working Dogs
- Average Working/Obedience Intelligence
- Brightest Dogs
- Excellent Working Dogs
- Fair Working/Obedience Intelligence
- Lowest Degree of Working/Obedience Intelligence

-Scatter plot answers the question and illustrates the correlation of dog size vs intelligence

#### Dog Size and Intelligence Classification

