# Homework 05: Paint a plot, pick a package

## Dav King

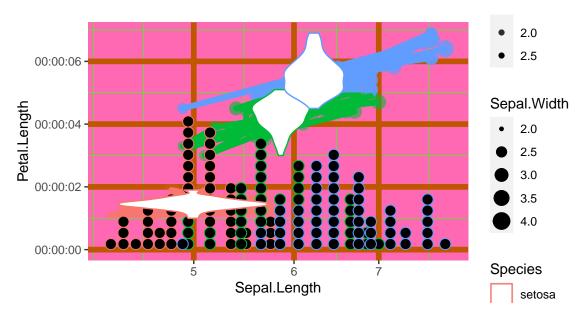
### April 14, 2022

### Load packages & data

```
library(tidyverse)
library(nflreadr)
library(ggridges)
```

#### Exercise 1

```
iris %>%
  ggplot(aes(x = Sepal.Length, y = Petal.Length, color = Species)) +
  geom_point(aes(size = Sepal.Width, alpha = Petal.Width)) +
  scale_x_log10() +
  scale_y_time() +
  geom_path(size = 2) +
  geom_dotplot(aes(y = Species)) +
  geom_violin() +
  theme(panel.background = element_rect(fill = "hotpink", color = "hotpink"),
      panel.grid.major = element_line(color = "#BF5700", size = 2),
      panel.grid.minor = element_line(color = "#39FF14"))
```



#### Exercise 2

This package is called nflreadr, which is hosted on CRAN. The packages enables people to read nflverse data, essentially giving them access to all of the play-by-play data from each recorded NFL season alongside draft picks, contract information and much much more. With this package, I was able to download the play-by-play information for the complete 2021 NFL season and make a graphic of the relative density of each type of play depending on how much time was left in the half (or overtime).

## When do Different NFL Plays Happen?

