

Project Update

2023-05-18

```
suppressPackageStartupMessages(library(knitr)) #makes pdfs
suppressPackageStartupMessages(library(latex2exp))
suppressPackageStartupMessages(library(ggplot2)) #makes nice plots
suppressPackageStartupMessages(library(tidyverse))
```

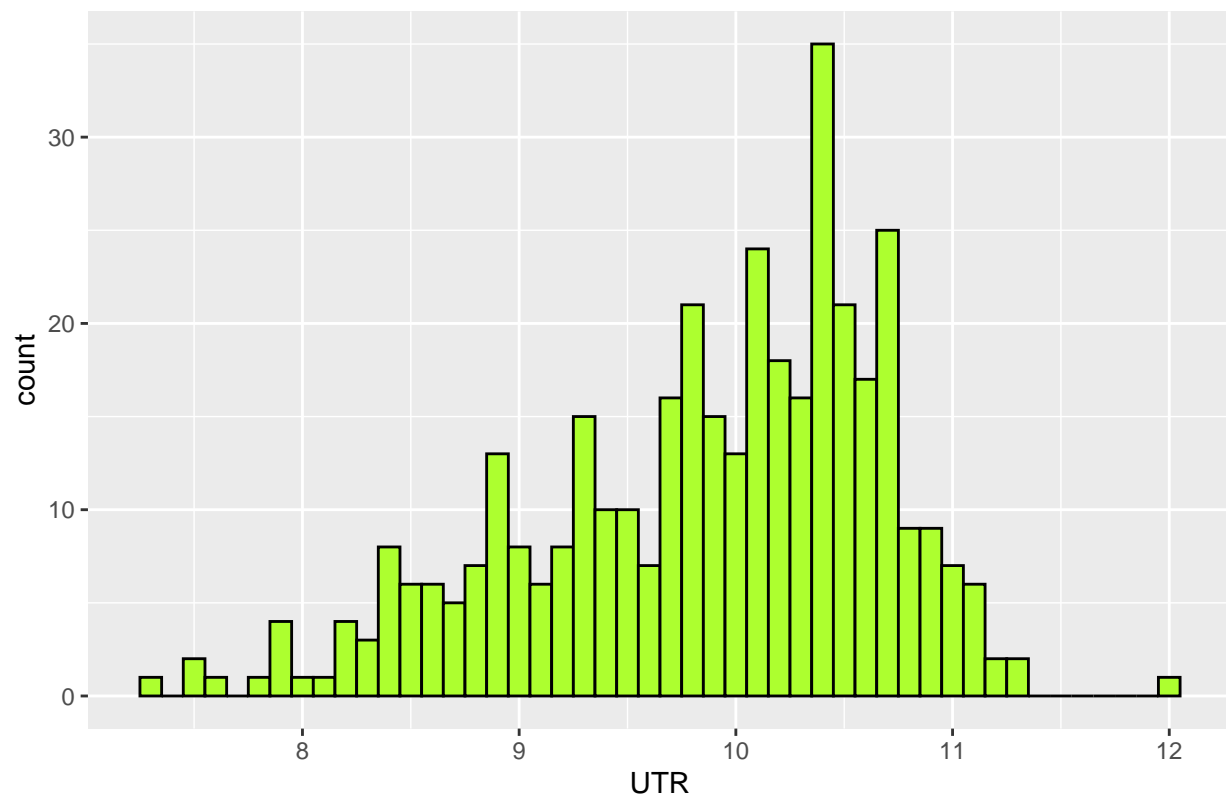
```
setwd("~/Desktop/Stats100/Project")
data = read.csv('lineupdata.csv')
```

```
summary(data)
```

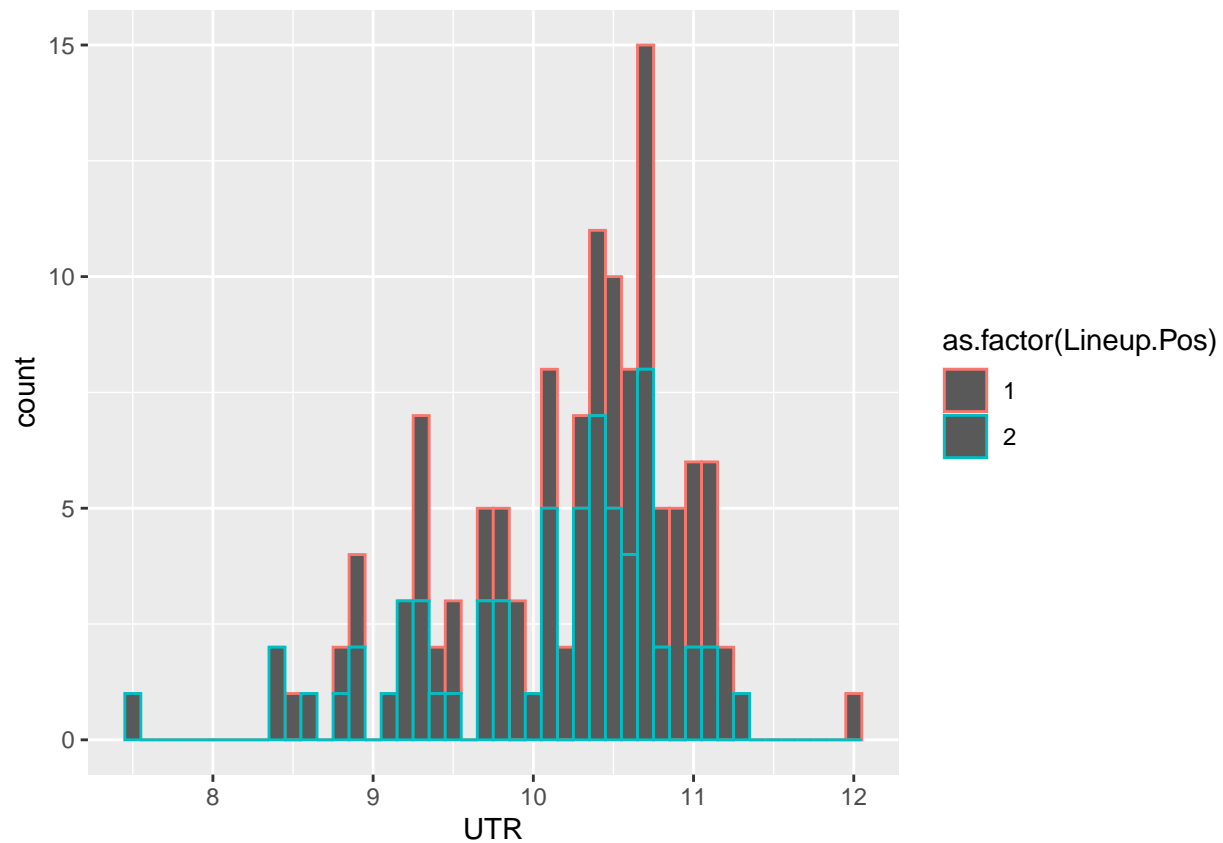
```
##      Team      Player      UTR      Lineup.Pos
## Length:384      Length:384      Min.   : 7.320      Min.    :1.0
## Class :character Class :character 1st Qu.: 9.328      1st Qu.:2.0
## Mode  :character Mode  :character Median :10.040      Median :3.5
##                                     Mean  : 9.868      Mean   :3.5
##                                     3rd Qu.:10.470      3rd Qu.:5.0
##                                     Max.   :11.970      Max.    :6.0
```

```
ggplot(data, aes(x=UTR)) +
  geom_histogram(binwidth=0.1, color="black", fill="greenyellow") + labs(title="UTR Ratings of 2023 NCA
```

UTR Ratings of 2023 NCAA Women's Tennis Players

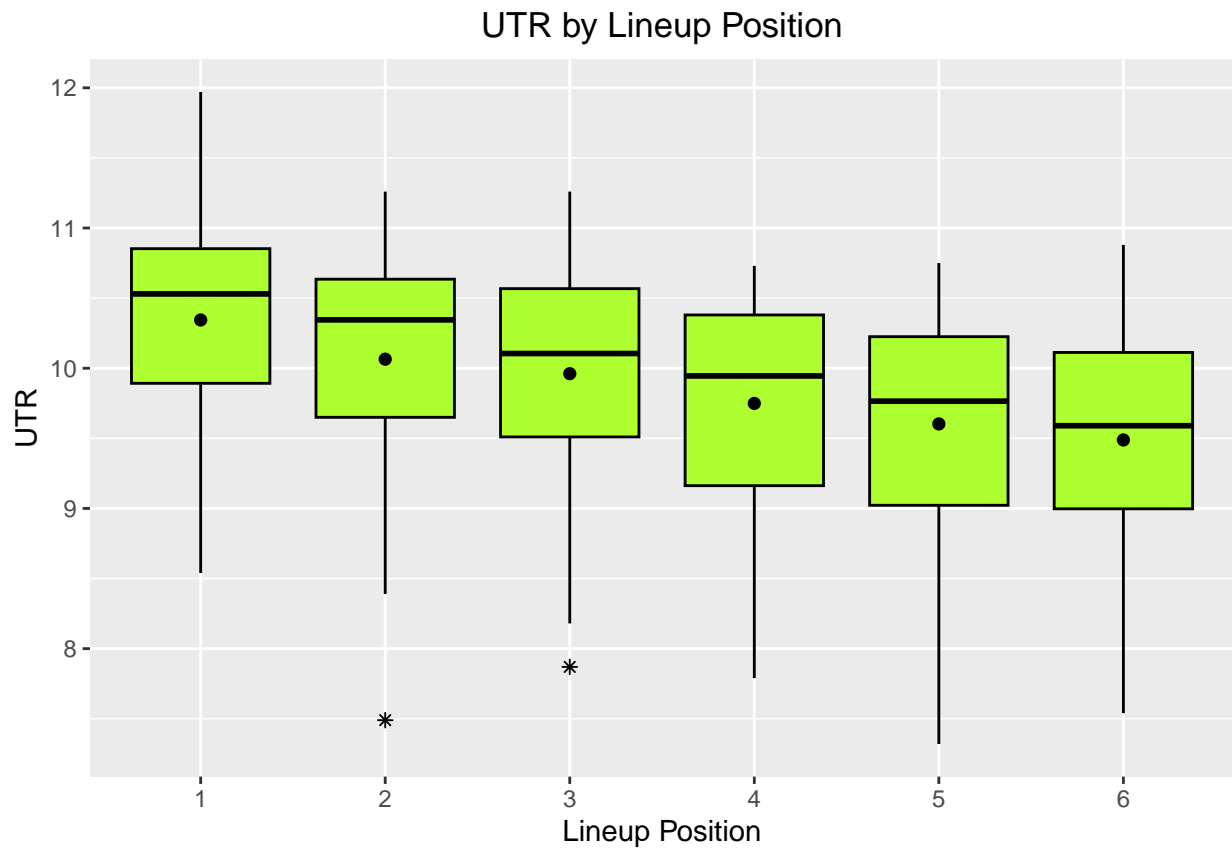


```
top2 = data %>%  
  filter(Lineup.Pos <= 2)  
  
ggplot(top2, aes(x=UTR, color=as.factor(Lineup.Pos))) +  
  geom_histogram(binwidth=0.1)
```



```
ggplot(data, aes(x=UTR, y=as.factor(Lineup.Pos))) +
  geom_boxplot(color="black", fill="greenyellow", outlier.shape=8) + coord_flip() + stat_summary(fun.y=
```

```
## Warning: The `fun.y` argument of `stat_summary()` is deprecated as of ggplot2 3.3.0.
## i Please use the `fun` argument instead.
## This warning is displayed once every 8 hours.
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was
## generated.
```



```
ggplot(data, aes(x=UTR, y=as.factor(Lineup.Pos), fill=as.factor(Lineup.Pos))) +  
  geom_boxplot() + coord_flip() + stat_summary(fun.y=mean, geom="point", shape=1, size=1) + labs(title="UTR by Lineup Position")
```

