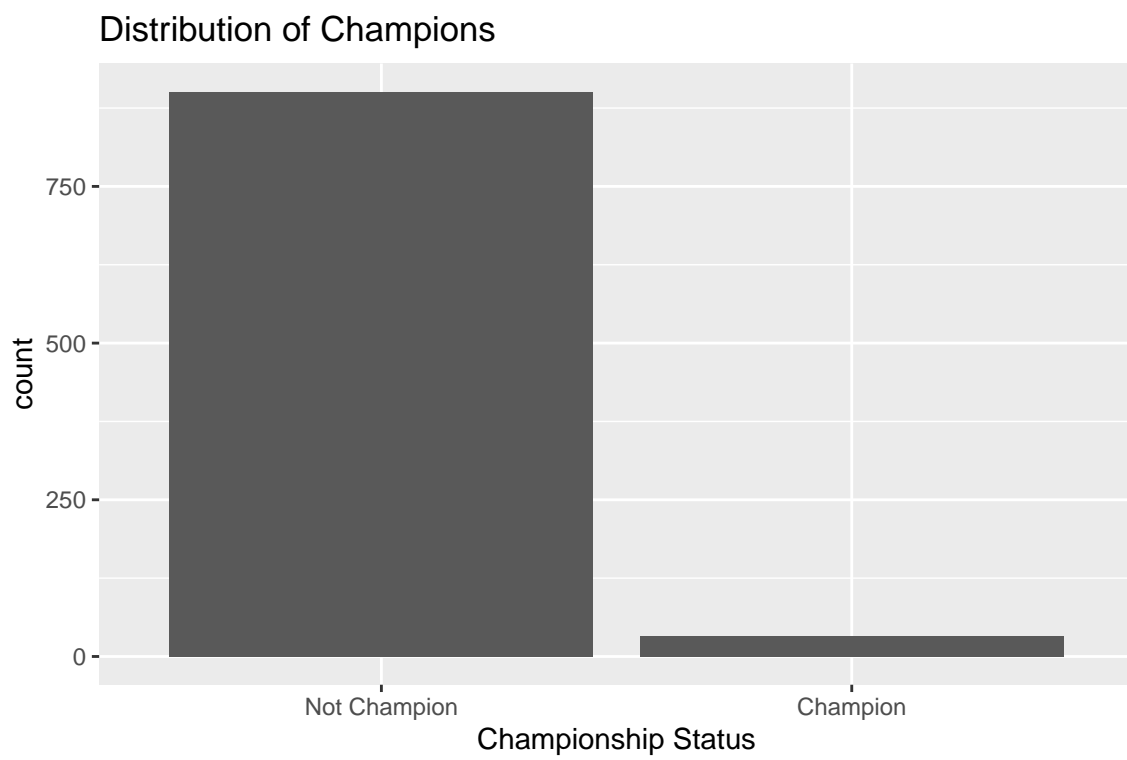


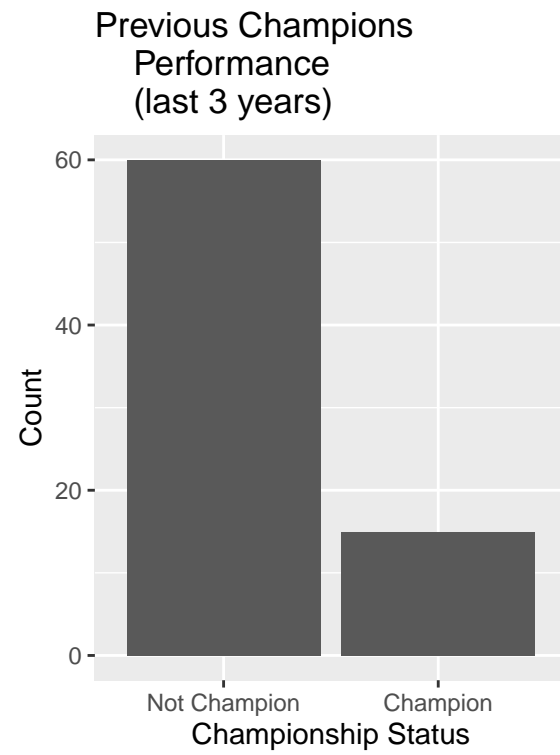
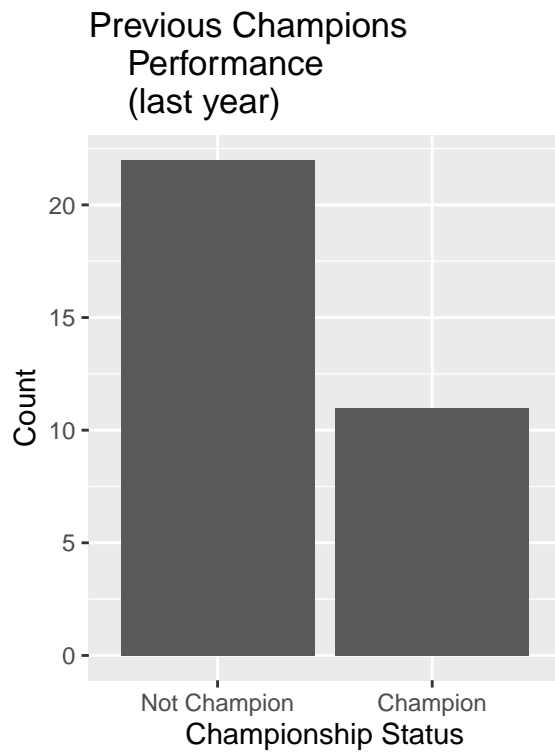
NBA Exploratory Data Analysis

Lana Lee

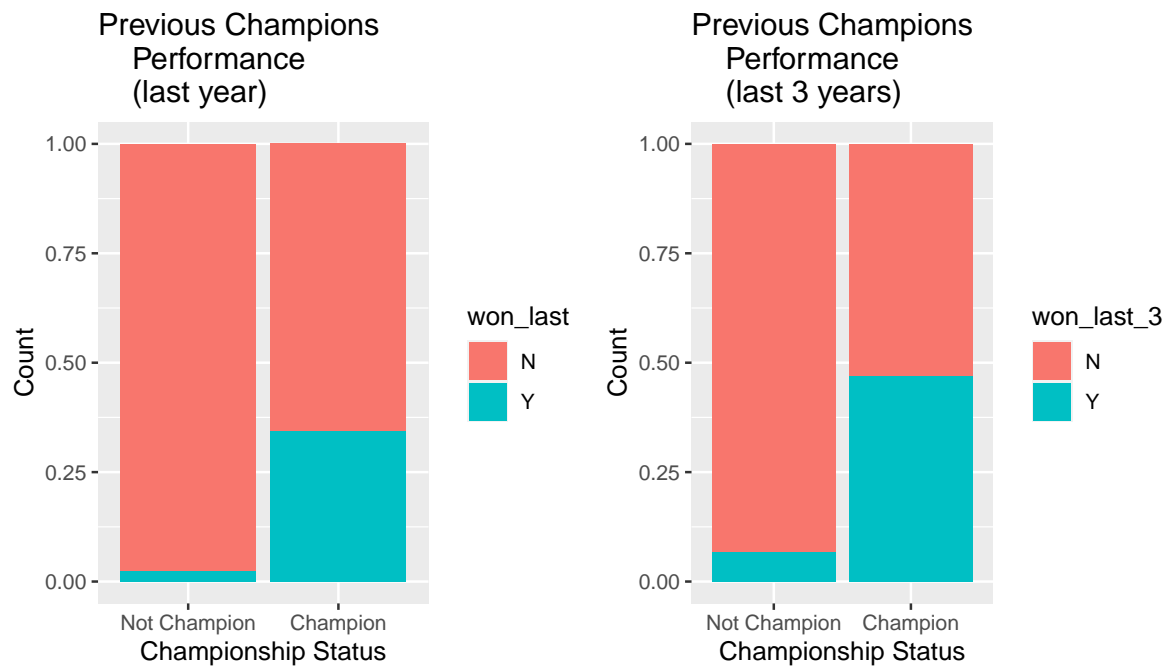
Visualizing the Distribution of the Response Variable



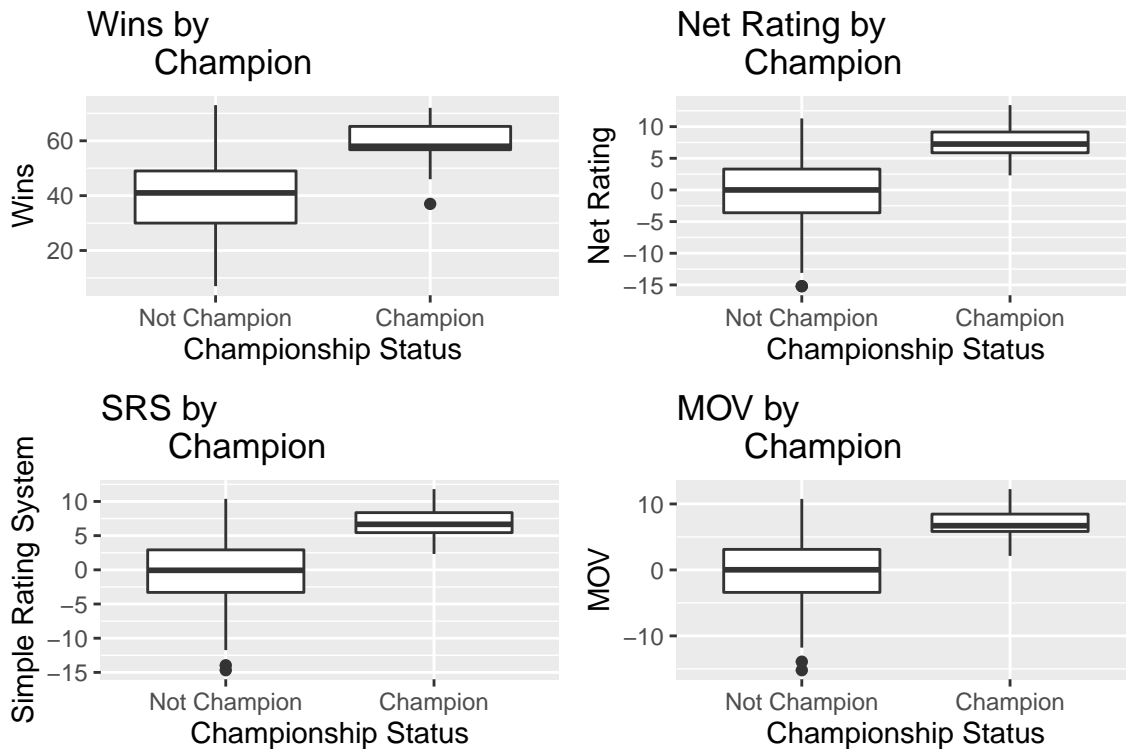
Visualizing the Relationship Between Discrete Variables and the Response Variable



Visualizing the Relative Chance of Winning the Championship



Visualizing the Relationship between the Championship and Potential Predictors



Creating a log model

```
# A tibble: 5 x 5
  term      estimate std.error statistic  p.value
  <chr>      <dbl>     <dbl>     <dbl>    <dbl>
1 (Intercept) -7.57        1.97      -3.84  0.000123
2 W           0.0399     0.0449     0.887  0.375
3 MOV        -0.579     0.927     -0.625  0.532
4 SRS         0.325     0.611     0.532  0.595
5 NRtg        0.740     0.651     1.14   0.256
```

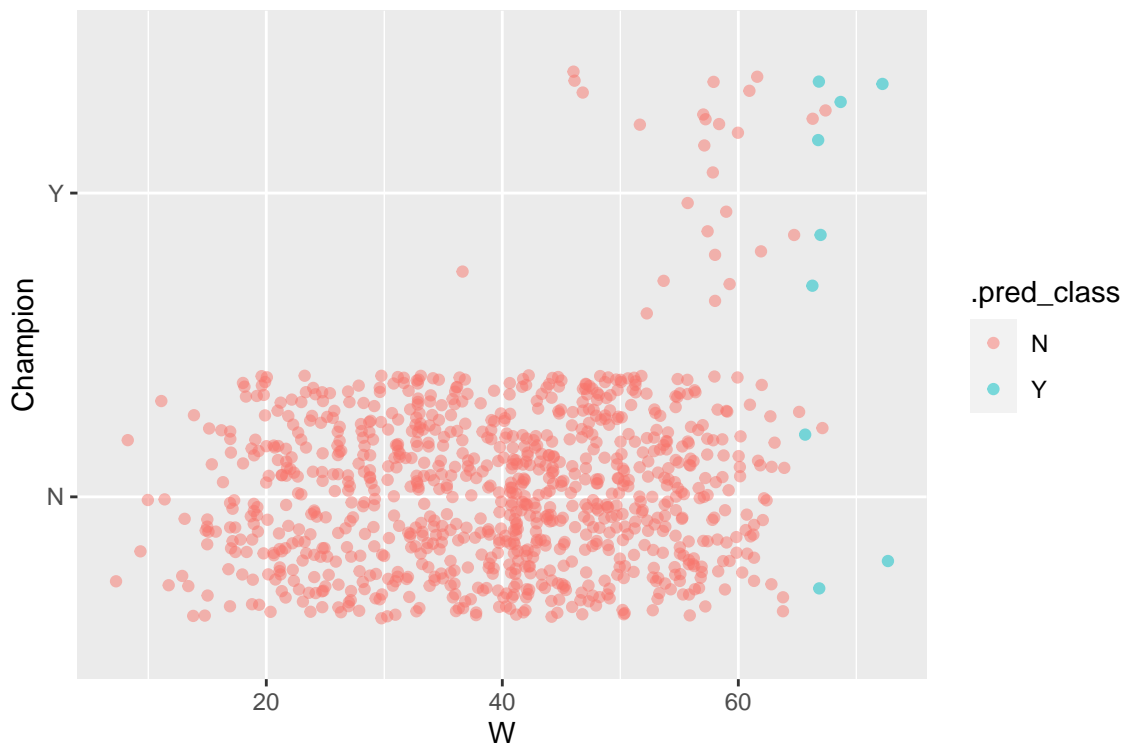
Predicting Championship for 3 Hypothetical Teams

```
# A tibble: 3 x 4
  W    MOV  SRS  NRtg
  <dbl> <dbl> <dbl> <dbl>
1   40    2  -1    2
```

```
2    67    4  3.5    5
3    80    8   5     9
```

```
# A tibble: 3 x 2
  .pred_N .pred_Y
    <dbl>  <dbl>
1  0.997 0.00253
2  0.915 0.0851
3  0.674 0.326
```

Visualizing the Distribution of the Response Variable



Predicting the Given Year's Champion using the Predictors in Model

```
[1] "Chicago Bulls"
```

```
[1] "W: 72"
```

[1] "SRS: 11.8"

[1] "MOV: 12.24"

[1] "NRtg: 13.4"