Soccer Players 22-23

2023-03-01

R Markdown

Install proper packages

```
library(ggplot2)
library(readr)
```

import dataset using readr and view

```
soccer <- read_csv('TSCstats.csv')
```

```
## Rows: 1815 Columns: 8
## -- Column specification --------------------------------------------------------
## Delimiter: ","
## chr (5): team, gender, city, state, location
## dbl (3): id, birth_year, zip
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

checking break down by location

```
table(soccer$location)
```

```
##
## Murfreesboro    Nashville      Sumner   Williamson
##          201           94         177         1343
```

checking break down by age

```
table(soccer$birth_year)
```

```
##
## 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2019 2020
##   40  130  194  216  218  177  154  190  160  129  101   68   36    1    1
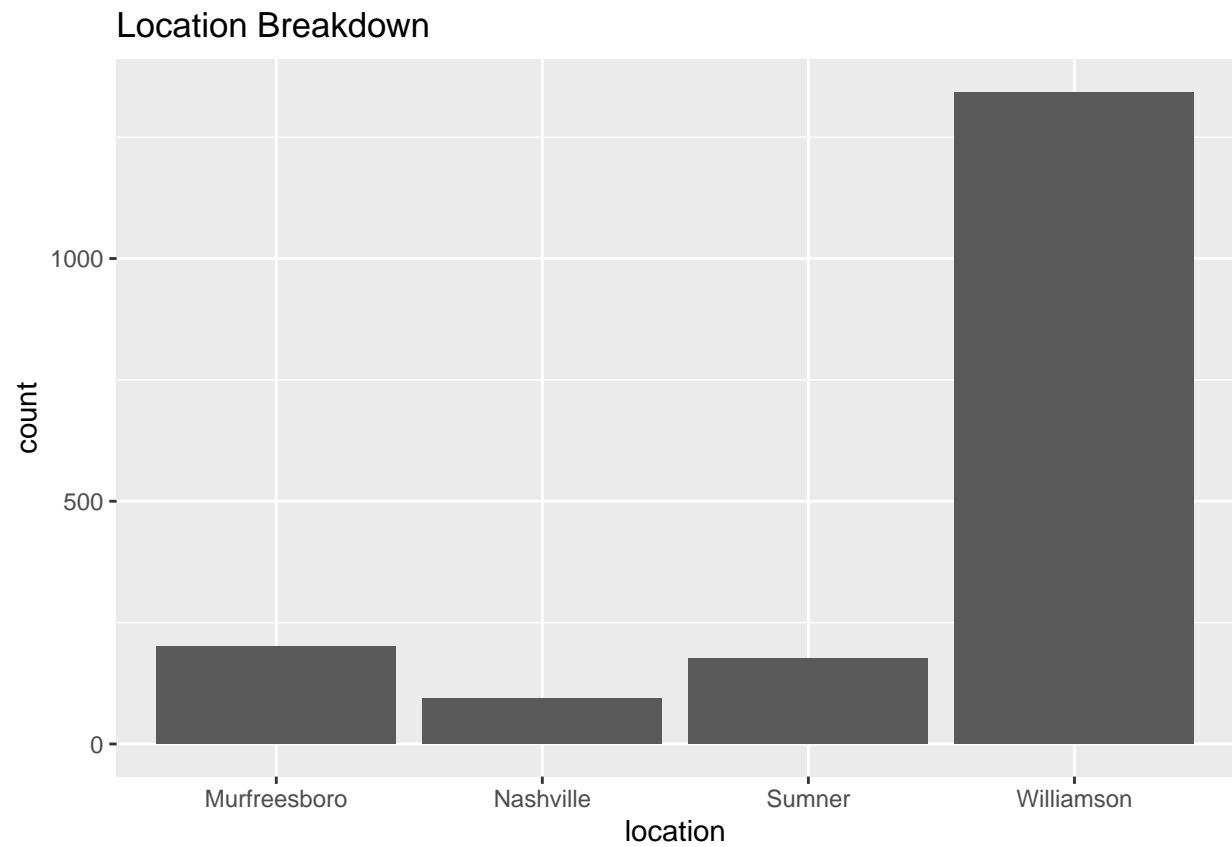```

checking breakdown by gender

```
table(soccer$gender)
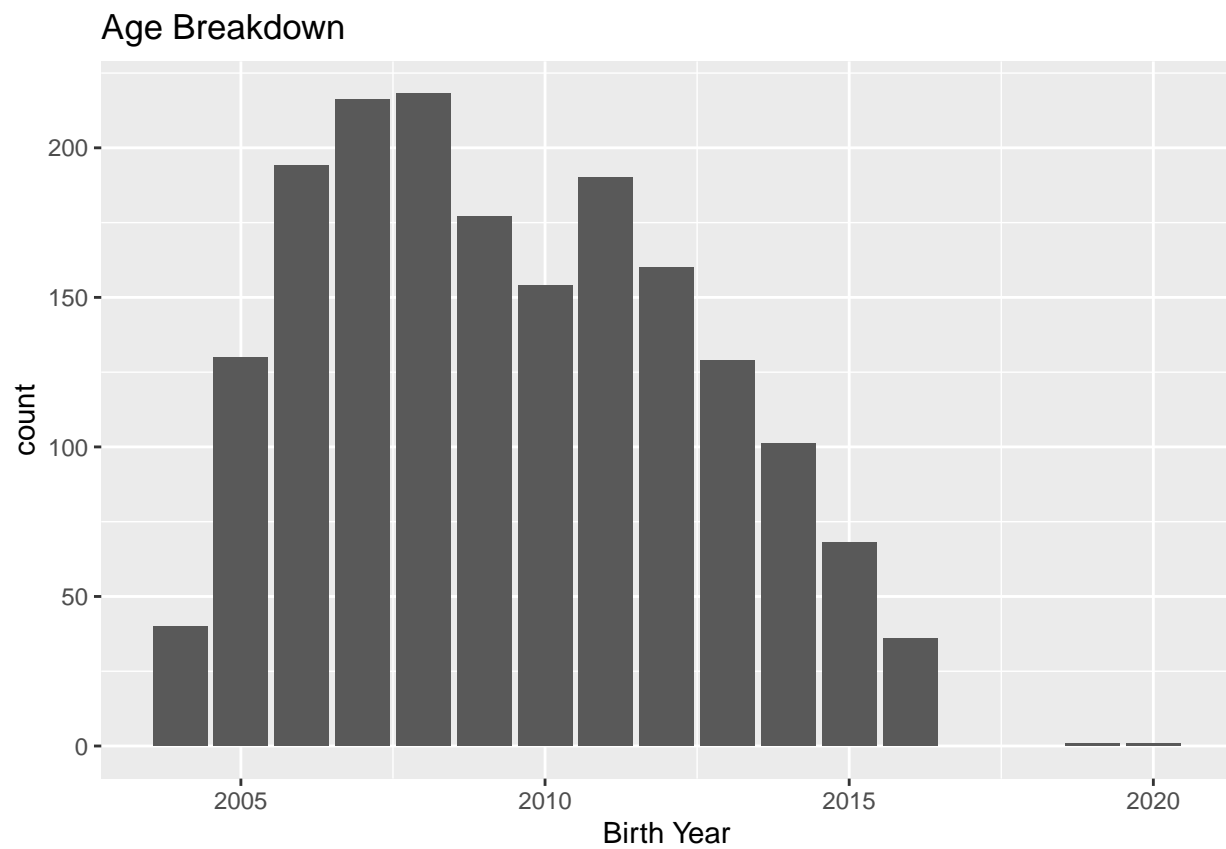```

```
##
##   F   M
## 834 981
```

Plotting using ggplot

first, break down by location

```
ggplot(soccer, aes(x= location)) + geom_bar() + ggtitle("Location Breakdown") + xlab("location")
```

Location Breakdown

second, by birth year

```r
ggplot(soccer, aes(x=birth_year)) + geom_bar() + ggtitle("Age Breakdown") + xlab("Birth Year")
```

Age Breakdown

finally, by gender

```r
ggplot(soccer, aes(x=gender)) + geom_bar() + ggtitle('Gender Breakdown') + xlab('Gender')
```

Gender Breakdown