Java vs JavaScript

The below section calculates and compares the Java and JavaScript repositories

Java Repositories

Giving the vairable entries for Java

```
> from_date <- '2015-03-01'
> to_date <- '2015-03-31'
> language_java <- 'java'
```

Entering and forming the URL for java repositories

```
> URL_java <-paste0('https://api.github.com/search/repositories?q=created%3A%22',
+              from_date,'+..+',to_date,'%22','+language:',language_java, '&page=1',
+              '&per_page=1')
>
```

Getting the JSON data into the list and displaying the total count

```
> list_func_java = jsonlite::fromJSON(URL_java)
> list_func_java$total_count

[1] 82128
```

JavaScript Repositories

Giving the vairable entries for JavaScript

```
> from_date <- '2015-03-01'
> to_date <- '2015-03-31'
> language_javaS <- 'javascript'
```

Entering and forming the URL for java repositories

```
> URL_javaS <-paste0('https://api.github.com/search/repositories?q=created%3A%22',
+              from_date,'+..+',to_date,'%22','+language:',language_javaS,
+              '&page=1','&per_page=1')
>
```

Getting the JSON data into the list and displaying the total count

```
> list_func_javaS = jsonlite::fromJSON(URL_javaS)
> list_func_javaS$total_count

[1] 67052
```

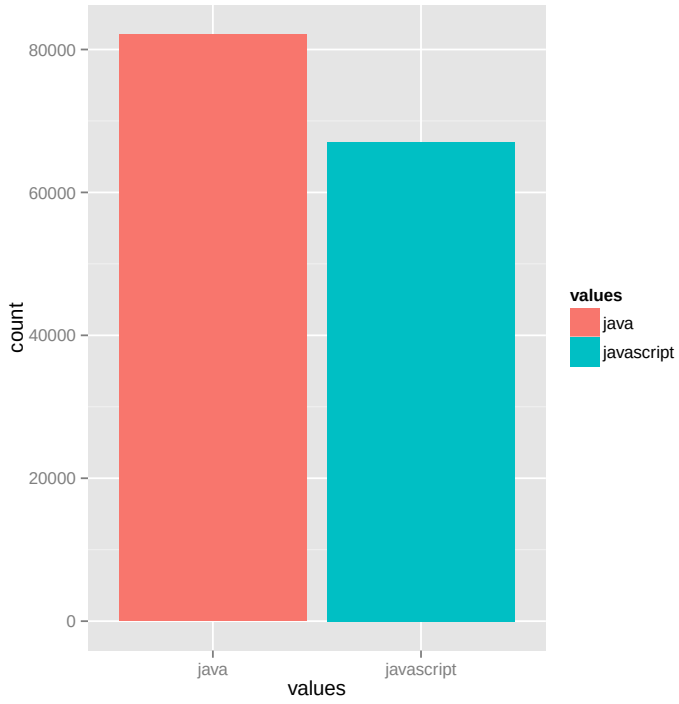
Comparision

Both Java and JavaScript are predominant laguages and have a lot of repositories in GitHub. To compare the I will plot a bar graph to display which one is more popular.

```
> #getting the values into variables and creating a data frame
> values <- c(language_java,language_javaS)
> count <- c(list_func_java$total_count,list_func_javaS$total_count)
> #data frame for plotting graph
> df <- data.frame(values,count)
```

The graph depicting the values for Java and JavaScript:

```
> ggplot(data=df, aes(x=values, y=count, fill=values))+ geom_bar(stat="identity")
```



As we can see from the above graph we can see that Java has more repositories than JavaScript.