

Title

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Date

1 Introduction

There is a theory which states that if ever anyone discovers exactly what the Universe is for and why it is here, it will instantly disappear and be replaced by something even more bizarre and inexplicable. There is another theory which states that this has already happened.



Figure 1: The Universe

2 Using R Code

We should load all of the libraries that we will use.

```
library(tidyverse)
```

Now with our libraries loaded we can use their functions. Let's import some data and produce a plot.

```
df <- read_csv("Data/sampleData.csv")
```

Before we make a plot, we should take a brief look at our data and perhaps compute some very simple descriptive statistics.

Here are the first five rows of our data:

```
head(df,5)

## # A tibble: 5 x 5
##   student    id color defect total.number
##   <chr>    <int> <chr> <chr>         <int>
## 1 daceyij     1 BR    N             57
## 2 daceyij     2 O     N             57
## 3 daceyij     3 BL    N             57
## 4 daceyij     4 G     L             57
## 5 daceyij     5 BL    N             57
```

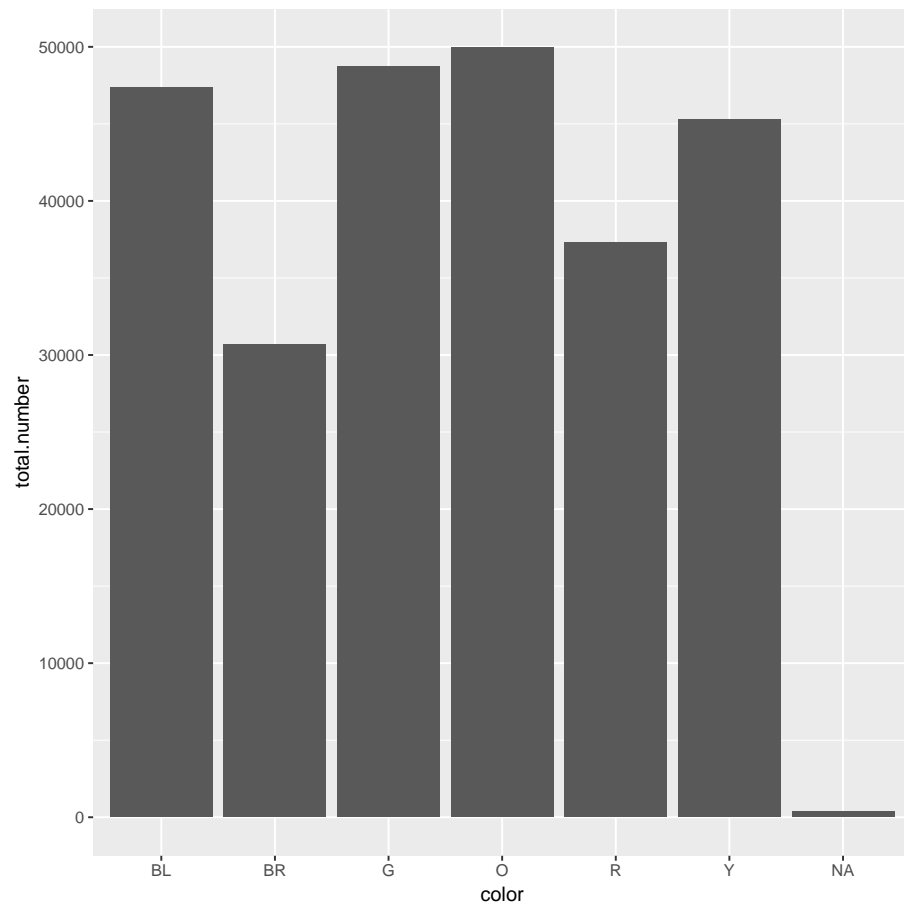
We can get a simple summary of our data:

```
summary(df)

##      student              id              color              defect
## Length:4777      Min.    : 0.00 Length:4777      Length:4777
## Class :character  1st Qu.:14.00 Class :character Class :character
## Mode  :character  Median :28.00 Mode  :character Mode  :character
##                      Mean   :27.68
##                      3rd Qu.:41.00
##                      Max.   :59.00
## total.number
## Min.    :47.00
## 1st Qu.:53.00
## Median :55.00
## Mean   :54.38
## 3rd Qu.:56.00
## Max.   :59.00
```

Now let's create a bar plot:

```
ggplot(data=df,mapping = aes(x=color,y=total.number)) +
  geom_bar(stat="identity")
```



3 Conclusion

“I always thought something was fundamentally wrong with the universe” [1]

References

[1] D. Adams. *The Hitchhiker’s Guide to the Galaxy*. San Val, 1995.