

# Week 6 Quiz

Your quiz answers should be placed in a single R. Place your script in a public repository on github and include a link to the script with your quiz submission. Label your answers using comments so that they can be clearly and quickly found within your script.

**Week 6 quiz is due end of day on Friday October 3<sup>rd</sup>. A solution to the quiz will be posted on Saturday October 4<sup>th</sup>.**

# 1. In the `mass` package, there is a dataset named `caith`. In one or two sentences, describe what is contained in the `caith` dataset.

# 2. Describe what is stored in variable `EyeColor`

```
Require(mass)
data(caith)
EyeColor <- rowSums(caith)
```

# 3. Create a new variable called `HairColor` that is a numeric vector with the total hair colors across different eye colors.

# 4. Create a histogram of eye colors. What is the most common eye color?

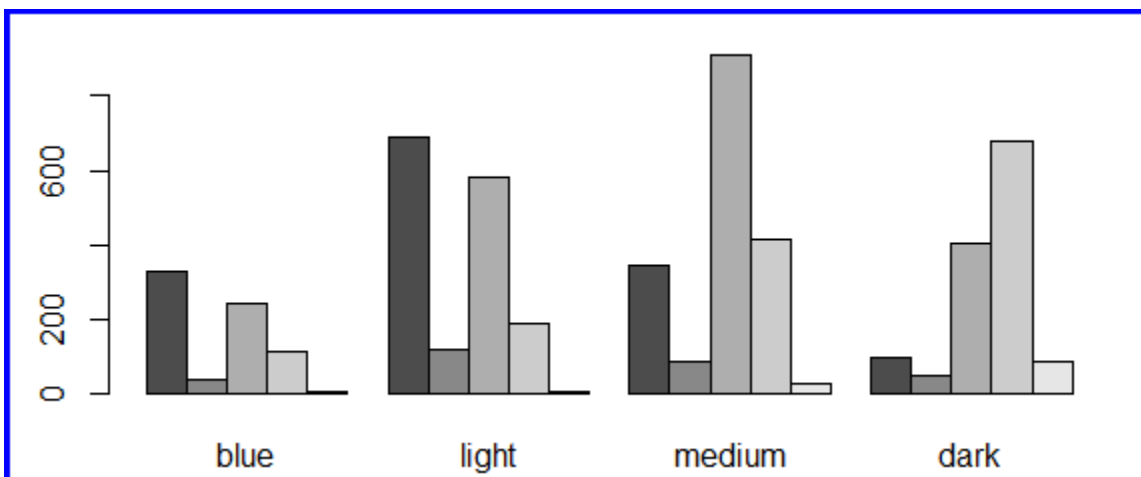
# 5. Describe what the following line of code does:

```
caitha <- as.matrix(caith)
```

# 6. Describe what the following line of code does:

```
barplot(t(as.matrix(caith)))
```

# 7. Modify the `barplot` function in #6 so that it produced a plot similar to that shown below:



# 8. Is there a relationship between eye color and hair color? Support your argument, using R code as necessary.