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Statistic for Science and Engineering (CSE 602)
Assignment 1: Data Visualization in R
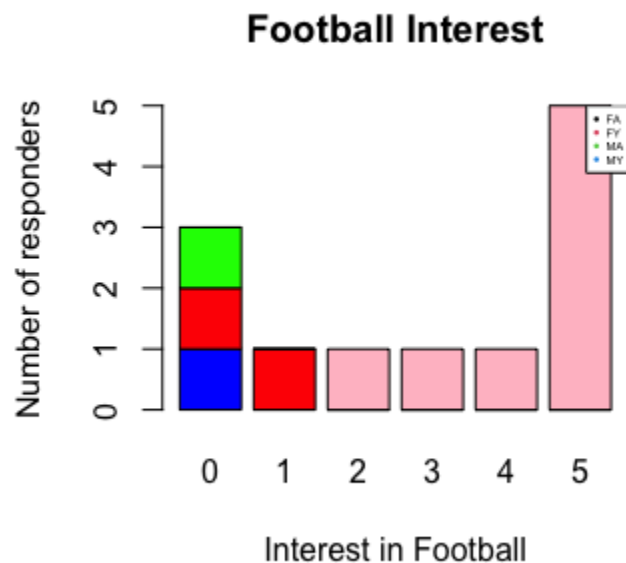

Plot 1: Interest in Football

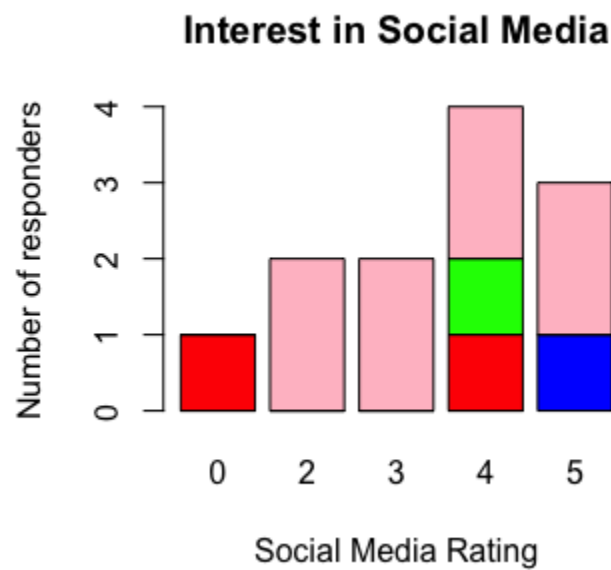## Football Interest

Interest in Football

In this graph, we are able to analyze that more than half of the survey respondents voted to have an interest in football greater than or equal to a score of 3. There is no certain pattern when it comes to comparing the age of the respondents and their interest in football. This is shown by the fact that 3 different age classes answered with a score of 0.

It is also important to note that the legend shown is incorrect - I had a hard time displaying the correct legend. The correct legend is as follows:

Pink	MY
Red	FY
Blue	FA
Green	MA

Plot 2: Interest in Social Media

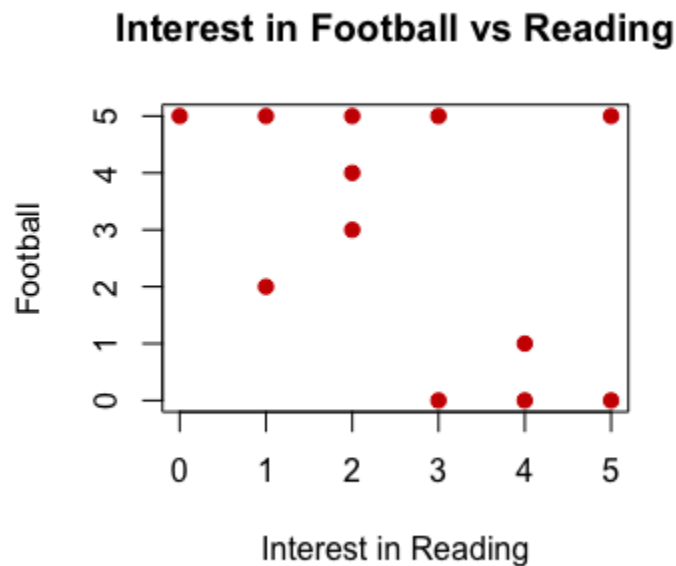## Interest in Social Media

Graph Legend:

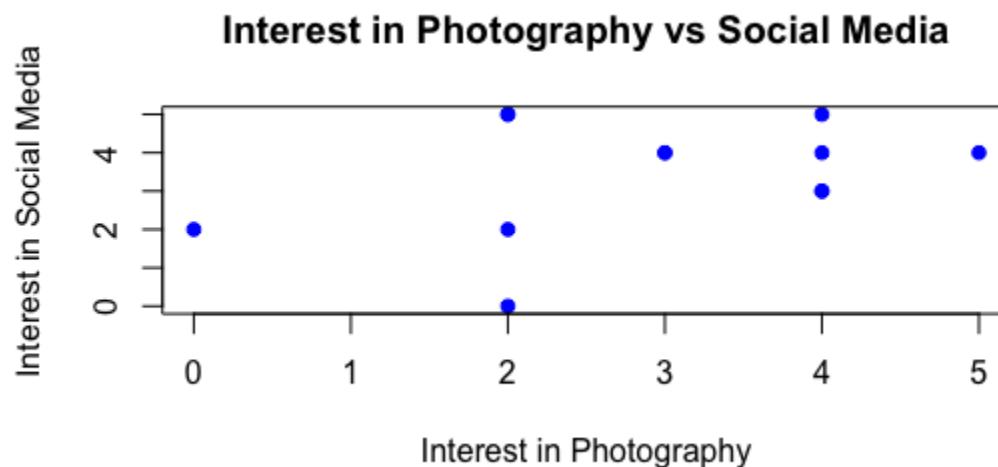| Pink	MY
Red	FY
Blue	FA
Green	MA

Here, we see a different variation to the first plot - a FA responds with a 5, and a MA responds with a 4. Other than that, the majority responds with a score between 2-5. From this, we might be able to predict if we were to ask another client, their score will be between this range.

Plot 3: Interest in Football vs Reading

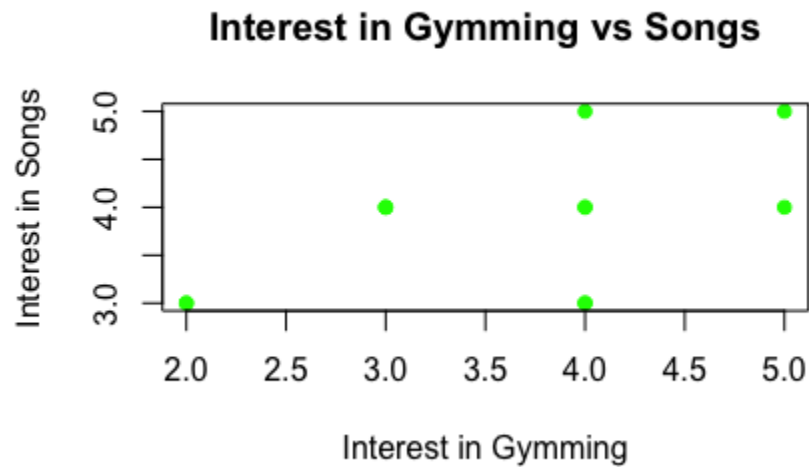**Interest in Football vs Reading**

- 8 out of the 12 survey respondents were more interested in football than in reading
- Higher reading interest levels correlated to very low football interest letters
- In most cases, higher football interest levels mean low reading levels.
- Minimum reading and football interest score was 0.

Plot 4: Interest in Photography vs Social Media

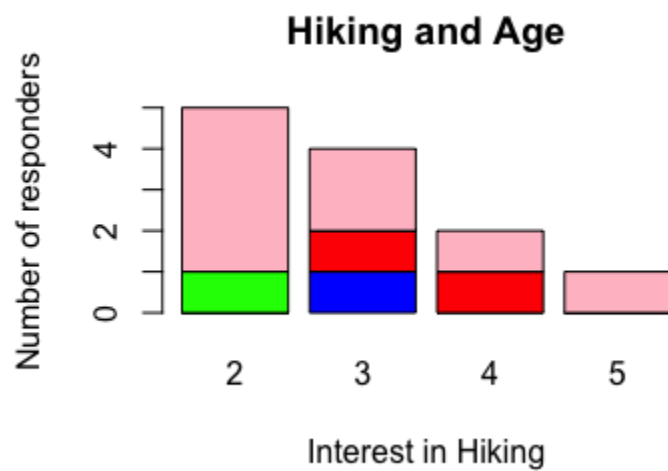**Interest in Photography vs Social Media**

- High interest in photography equated a high interest in social media
- Greater interest in photography
- Minimum photography interest score is 0, minimum social media interest score is also 0

Plot 5: Interest in Gymming vs Songs

Interest in Gymming vs Songs

- The minimum interest score in gymming was 2, minimum interest score for listening to music was 3.
- High interest in gym, high interest in listening to music
    - This is expected, as majority of people listen to music whilst at the gym
- Point (2,3) could be considered as an outlier

Plot 6: Interest in Hiking

Hiking and Age

Graph Legend:

Pink	MY
Red	FY
Blue	FA
Green	MA

- We see an age class differentiation. Half of the MY respondents responded with an interest score of 2. Rest had an interest level of 3-5.
- 3 different age groups rated their interest between 3-5.
- Minimum interest score was 2.

Plot 7: Cooking and Age

Cooking and Age

Number of responders vs Interest in Cooking

Graph Legend:

Pink	MY
Red	FY
Blue	FA
Green	MA

- Majority of young males responded with an interest score between 0-3.
- Older adults responded with maximum interest.

- Minimum score was 0 and maximum was 5.