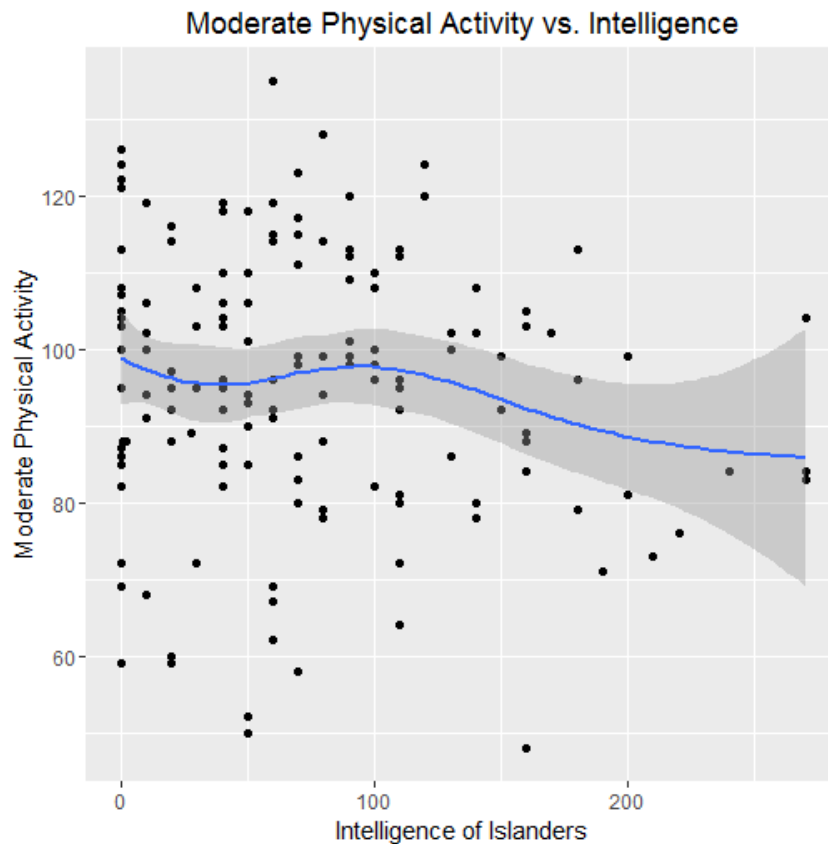


STATS 67 HW#9

Study 1: Is moderate physical activity related to intelligence?

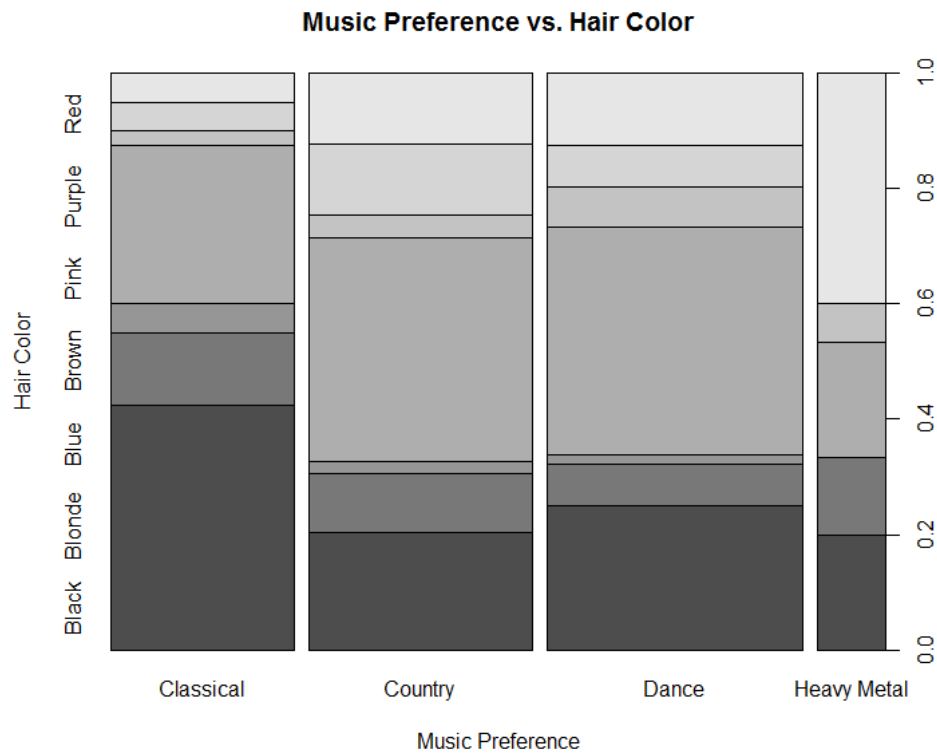
1. Fitting Linear Model
2. $H_0: \beta_1 = 0$
 $H_A: \beta_1 \neq 0$
- 3.



4. Conditions have not been met, points are not evenly scattered over line.
5. We fail to reject the Null Hypothesis
 p-value : 0.05989
 Conclusion: We have sufficient evidence in favor of islanders Moderate Physical Activity related to islander intelligence.

Study 2: Is music preference related to hair color?

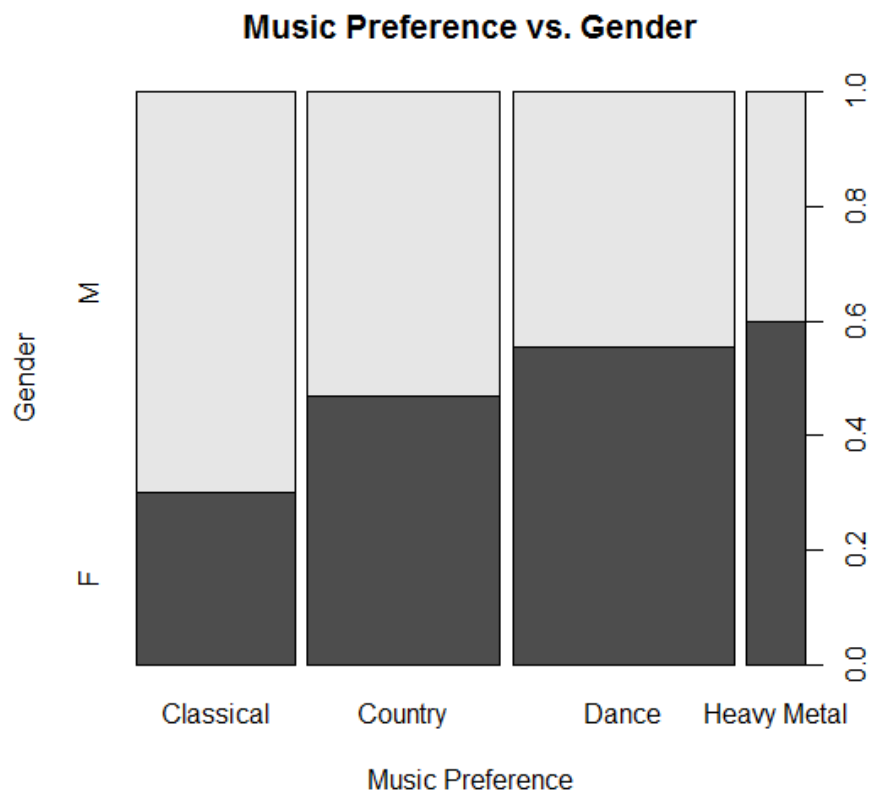
1. Chi Squared Test
2. H_0 : Music preference IS NOT related to hair color.
 H_A : Music preference IS related to hair color.
- 3.



4. Conditions are not met: All Cells in Table have more than 5 Observations.
 There are only 4 observations for people with blue
5. CONDITIONS ARE NOT MET.

Study 3: Is music preference related to gender?

1. Chi Squared
2. H_0 : Music Preference IS NOT related to Gender.
 H_A : Music Preference IS related to Gender.
- 3.



4. Conditions have been met; each cell in table has more than 5 observations.
5. We Fail to Reject the Null Hypothesis
 p-value: 0.06492
 Conclusion: We do not have sufficient evidence to show that Music Preference and Gender are related.