Assignment 4: Linear Models

January 15, 2019

Linear Models Homework

Consider the comic_characters data that we encountered previously.

- 1. Prepare the data by cleaning up the categories.
 - a. eye has some problems
 - b. collapse categories in eye, hair and sex respectively.
- 2. Explore this data using the tools of dplyr and the summarise() function.
- 3. Find out what things are most correlated.
- 4. Perform univariate regressions.
 - a. Use glance to determine which has the strongest fit.
 - b. Use glance to determine which has the weakest fit.
- 5. Build a multivariate linear regression.
- 6. With the model that lasso returns, fit a model using lm with the same covariates and them comment on how assumptions of linear regression were met.