# Illuminating Beauty: An Analysis of Camera Lighting Influences on Perceived Attractiveness

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Exploratory Data Analysis: Age, Gender, and Ethnicity

Exploratory Data Analysis:

The purpose of examining the following demographic factors can help provide insight into the diversity and representation of our sample. Also, we can ensure the validity of our findings by identifying potential confounding variables or better understand how camera lighting can vary across different population segments.

Histogram of Age
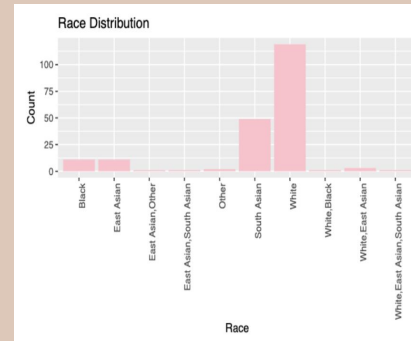

Pie Chart for Sex
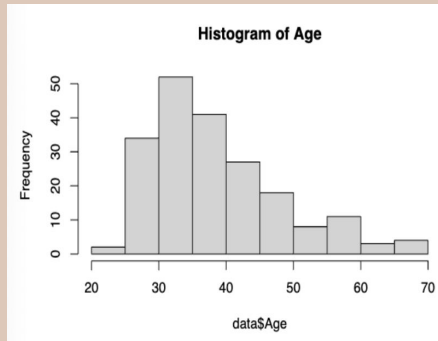
Race Distribution

Age:

The average demographic of participants' age fall between 30-40 years old. This distribution appears slightly right-skewed.
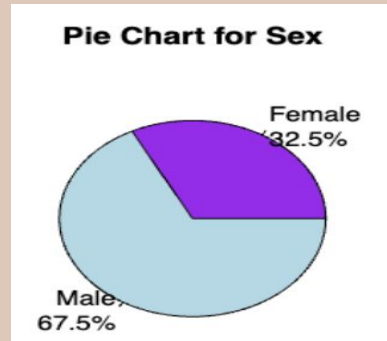
Gender:

Based on our chart, this gender distribution showcases that there are more male (67.5%) participants than female (32.5%).

Ethnicity:

The majority of participated are identified as White and South Asian. It can be essential to consider this racial diversity given how different cultural backgrounds and social norms may shape an individual's perception of attractiveness.

Camera Lighting & Perceived Attractiveness

Effect of Camera Lighting on Perceived Attractiveness

Distribution of Ratings Across Lighting Settings with Mean Labels
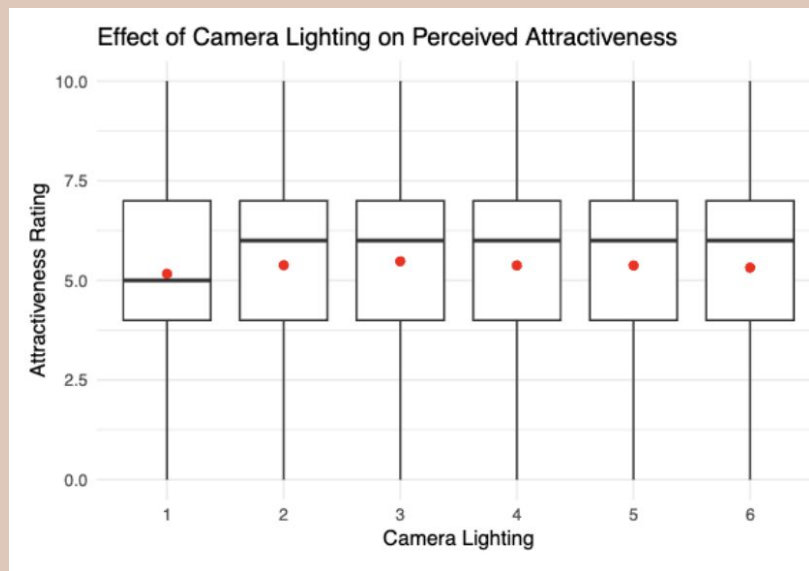
In our boxplot, we see that the camera lighting 3 has the highest perceived attractiveness rating while camera lighting 1 has the lowest perceived attractiveness rating
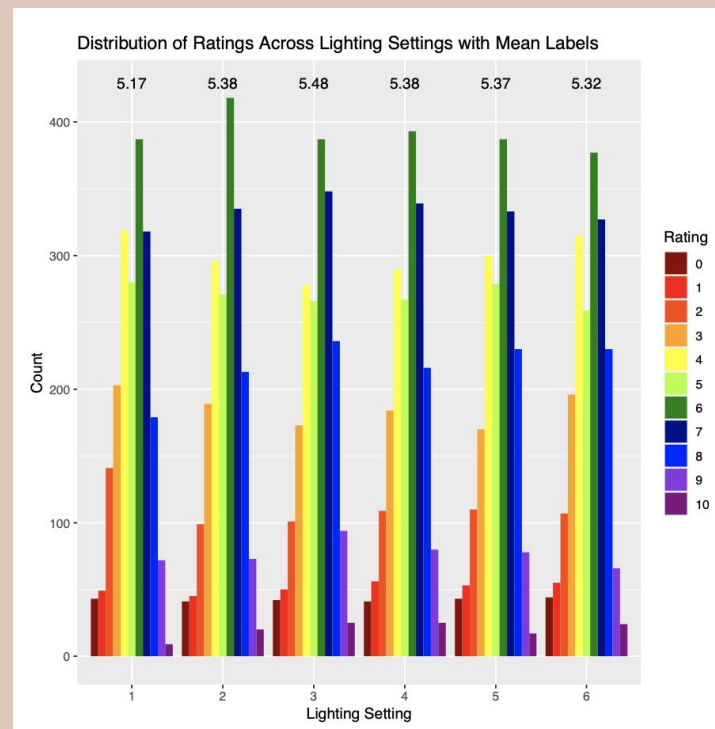
In the above graph, we see that camera lighting 3 has a larger number of ratings that ranged from 7 to 10 among all six of the camera lighting methods.