

**Data Appendix**  
**Dataset: celebrity\_image\_data.csv**

The data file contains eight variables, with each row containing information about a different celebrity. The unit of observation is the celebrity.

**Variables:**

**celebrity\_name**

- Definition: Name of celebrity
- Units of Measurement: N/A
- Exact Name of Variable in original data file: celebrity\_name
- 2500(0)
- Steps for processing the variable for cleaned dataset: No changes were made

**picture\_number**

- Definition: Image number of a specific celebrity
- Units of Measurement: N/A
- Exact Name of Variable in original data file: picture\_number
- 2500(0)
- Steps for processing the variable for cleaned dataset: No changes were made

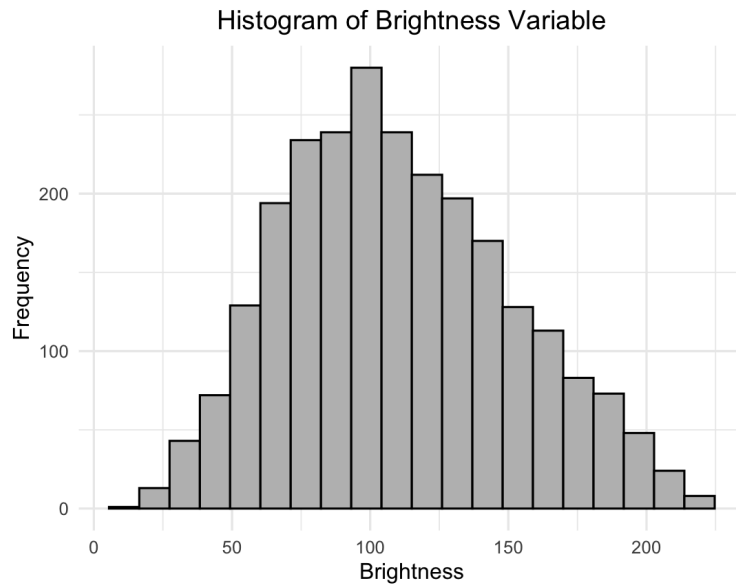
**file\_path**

- Definition: String of characters that indicates the location of the image in the GitHub repository
- Units of Measurement: N/A
- Exact Name of Variable in original data file: file\_path
- 2500(0)
- Steps for processing the variable for cleaned dataset: No changes were made

**brightness**

- Definition: Brightness of an image, measured as a number above 0
- Units of Measurement: N/A
- Exact Name of Variable in original data file: brightness
- 2500(0)
- Steps for processing the variable for cleaned dataset: No changes were made

Minimum	25th Percentile	Median	Mean	75th Percentile	Maximum	Standard Deviation
15.85	79.54	106.53	110.30	138.40	224.07	40.92457

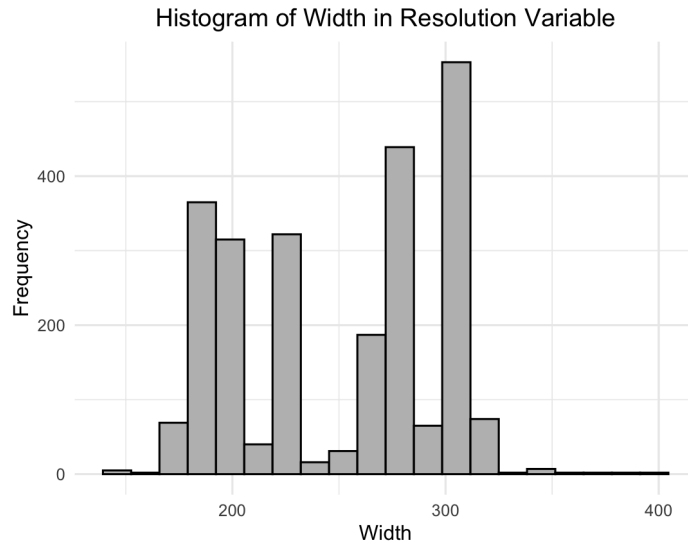


**resolution**

- Definition: The resolution, or quality, of an image listed in the format of “width x height”
- Units of Measurement: Pixels
- Exact Name of Variable in original data file: resolution
- 2500(0)
- Steps for processing the variable for cleaned dataset: No changes were made

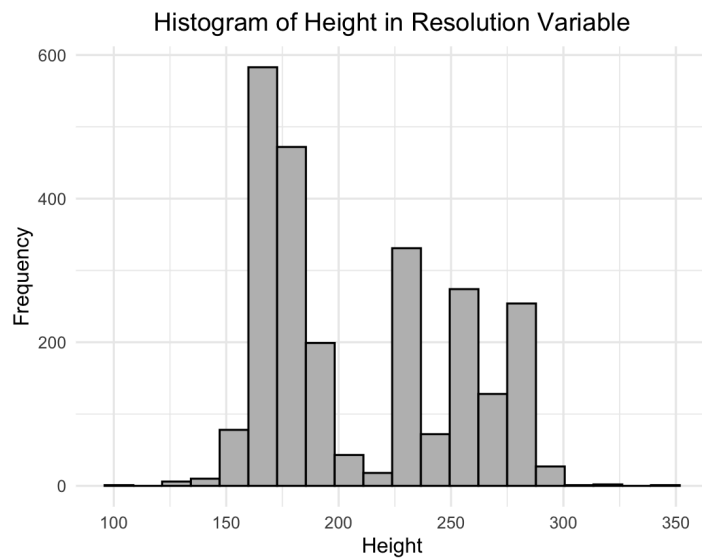
**WIDTH**

Minimum	25th Percentile	Median	Mean	75th Percentile	Maximum	Standard Deviation
140	201	259	248	299	392	47.15581



HEIGHT

Minimum	25th Percentile	Median	Mean	75th Percentile	Maximum	Standard Deviation
100.0	168.0	194.0	210.2	251.0	343.0	41.63988

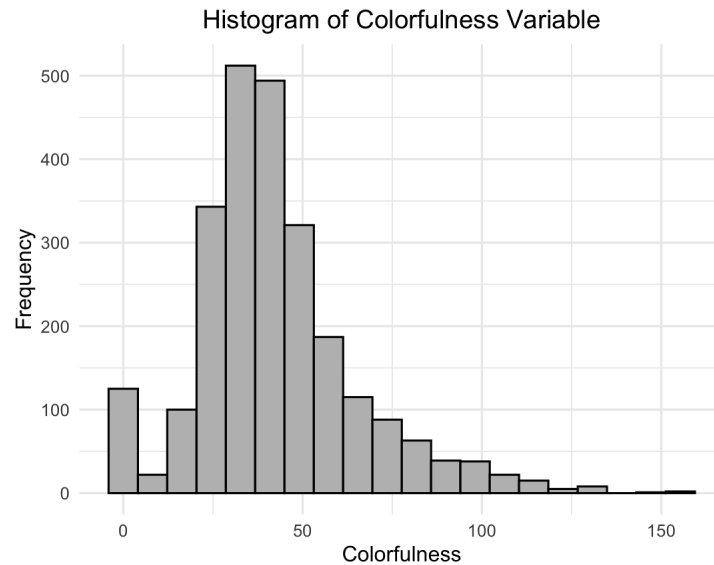


### *colorfulness*

- Definition: The level of color contained within an image, quantified as a number above 0
- Units of Measurement: N/A
- Exact Name of Variable in original data file: colorfulness
- 2500(0)

- Steps for processing the variable for cleaned dataset: No changes were made

Minimum	25th Percentile	Median	Mean	75th Percentile	Maximum	Standard Deviation
0.00	29.11	39.11	42.50	51.77	155.30	22.52963



### *gender*

- Definition: Gender of the celebrity
- Units of Measurement: N/A
- Exact Name of Variable in original data file: gender
- 2500(0)
- Steps for processing the variable for cleaned dataset: No changes were made

### *race*

- Definition: Race of the celebrity
- Units of Measurement: N/A
- Exact Name of Variable in original data file: race
- 2500(0)
- Steps for processing the variable for cleaned dataset: No changes were made

**Dataset: all\_celebs\_image\_data.csv**

The data file contains eight variables, with each row containing information about celebrity images (including augmented images). The unit of observation is the celebrity image.

**Variables:**

**celebrity\_name**

- Definition: Name of celebrity
- Units of Measurement: N/A
- Exact Name of Variable in original data file: celebrity\_name
- 10000(0)
- Steps for processing the variable for cleaned dataset: No changes were made

**picture\_number**

- Definition: Image number of a specific celebrity
- Units of Measurement: N/A
- Exact Name of Variable in original data file: picture\_number
- 10000(0)
- Steps for processing the variable for cleaned dataset: No changes were made

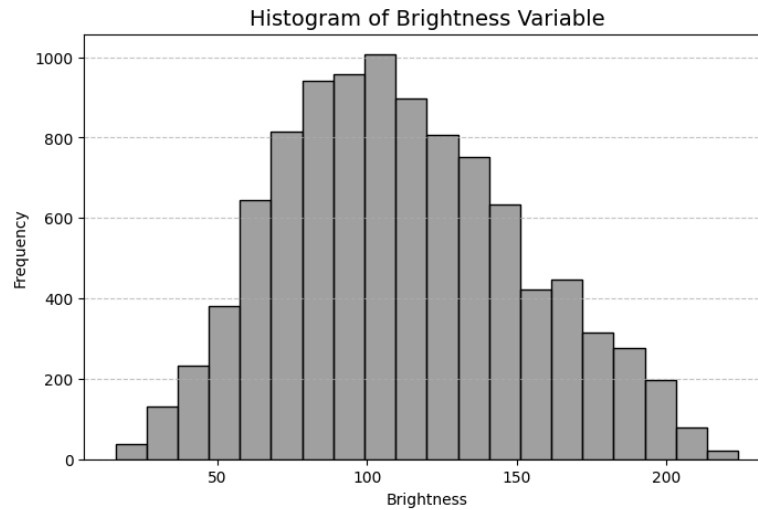
**file\_path**

- Definition: String of characters that indicates the location of the image in the GitHub repository
- Units of Measurement: N/A
- Exact Name of Variable in original data file: file\_path
- 10000(0)
- Steps for processing the variable for cleaned dataset: No changes were made

**brightness**

- Definition: Brightness of an image, measured as a number above 0
- Units of Measurement: N/A
- Exact Name of Variable in original data file: brightness
- 10000(0)
- Steps for processing the variable for cleaned dataset: No changes were made

Minimum	25th Percentile	Median	Mean	75th Percentile	Maximum	Standard Deviation
15.85	81.21	108.03	111.50	139.13	224.07	40.40

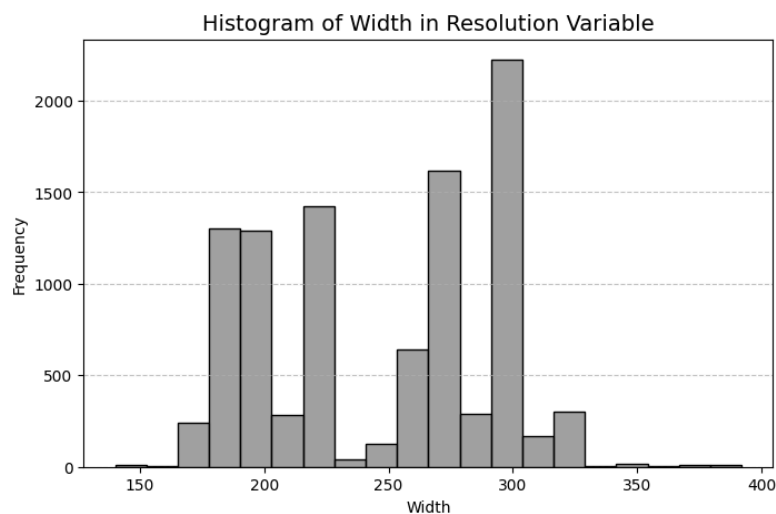


### resolution

- Definition: The resolution, or quality, of an image listed in the format of “width x height”
- Units of Measurement: Pixels
- Exact Name of Variable in original data file: resolution
- 10000(0)
- Steps for processing the variable for cleaned dataset: No changes were made

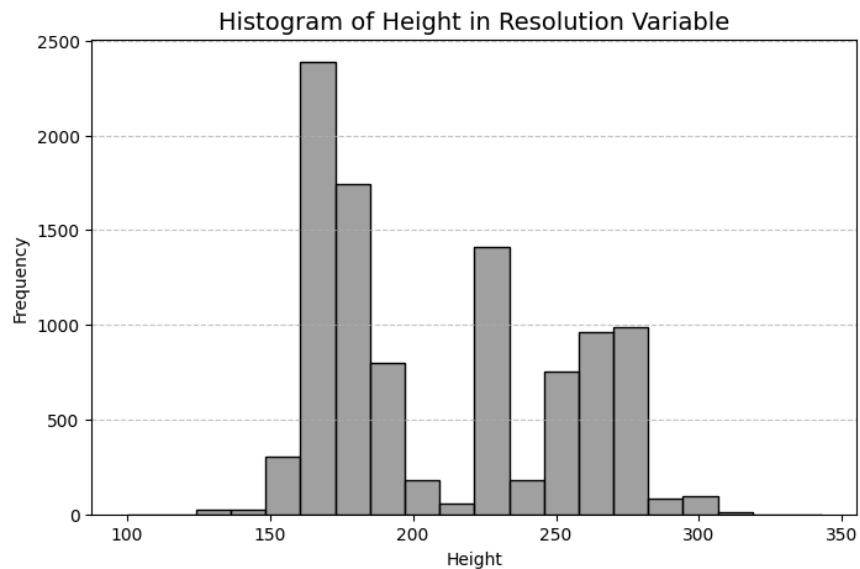
### WIDTH

Minimum	25th Percentile	Median	Mean	75th Percentile	Maximum	Standard Deviation
140	201	259	248	299	392	47.15581



## HEIGHT

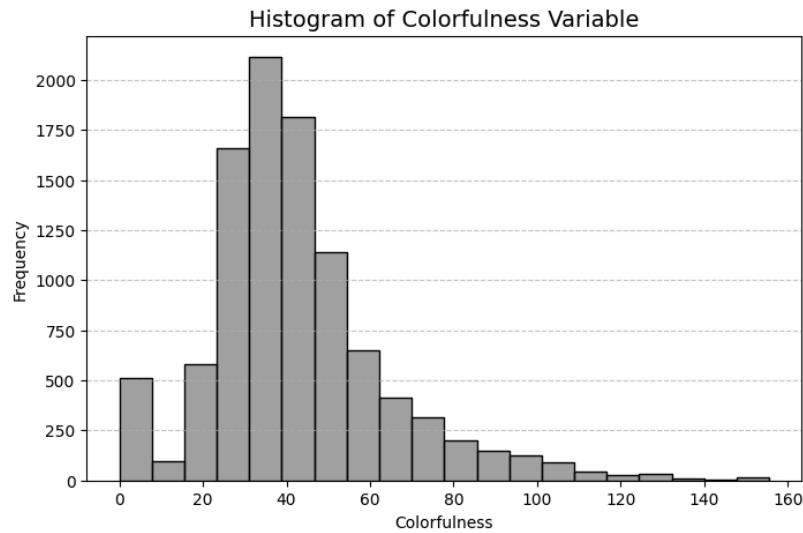
Minimum	25th Percentile	Median	Mean	75th Percentile	Maximum	Standard Deviation
100.0	168.0	194.0	210.2	251.0	343.0	41.63988



## *colorfulness*

- Definition: The level of color contained within an image, quantified as a number above 0
- Units of Measurement: N/A
- Exact Name of Variable in original data file: colorfulness
- 10000(0)
- Steps for processing the variable for cleaned dataset: No changes were made

Minimum	25th Percentile	Median	Mean	75th Percentile	Maximum	Standard Deviation
0.00	29.60	39.01	42.40	51.04	155.57	22.04



**gender**

- Definition: Gender of the celebrity
- Units of Measurement: N/A
- Exact Name of Variable in original data file: gender
- 10000(0)
- Steps for processing the variable for cleaned dataset: No changes were made

**race**

- Definition: Race of the celebrity
- Units of Measurement: N/A
- Exact Name of Variable in original data file: race
- 10000(0)
- Steps for processing the variable for cleaned dataset: No changes were made



**Dataset: incorrect\_data\_guesses.csv**

The data file contains sixteen variables, with each row containing information about a different celebrity image which was incorrectly identified in epoch 100. The unit of observation is the celebrity image.

**Variables:**

**celebrity\_name**

- Definition: Name of celebrity
- Units of Measurement: N/A
- Exact Name of Variable in original data file: celebrity\_name
- 287(0)
- Steps for processing the variable for cleaned dataset: No changes were made

**picture\_number**

- Definition: Image number of a specific celebrity
- Units of Measurement: N/A
- Exact Name of Variable in original data file: picture\_number
- 287(0)
- Steps for processing the variable for cleaned dataset: No changes were made

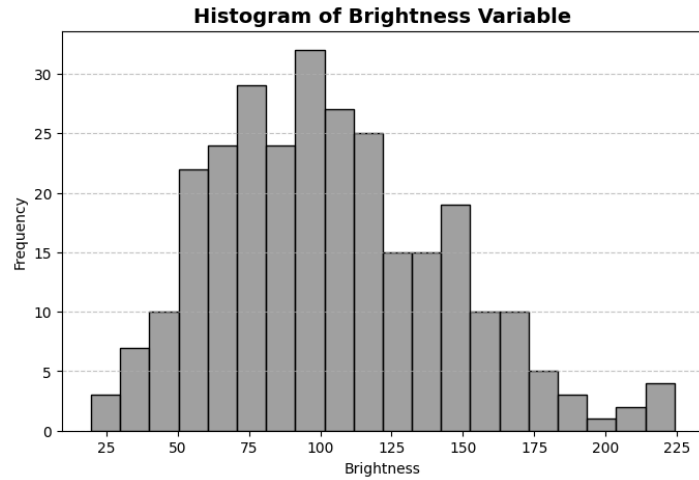
**file\_path**

- Definition: String of characters that indicates the location of the image in the GitHub repository
- Units of Measurement: N/A
- Exact Name of Variable in original data file: file\_path
- 287(0)
- Steps for processing the variable for cleaned dataset: No changes were made

**brightness**

- Definition: Brightness of an image, measured as a number above 0
- Units of Measurement: N/A
- Exact Name of Variable in original data file: brightness
- 287(0)
- Steps for processing the variable for cleaned dataset: No changes were made

Minimum	25th Percentile	Median	Mean	75th Percentile	Maximum	Standard Deviation
19.71	73.28	99.11	103.45	129.78	224.07	40.88

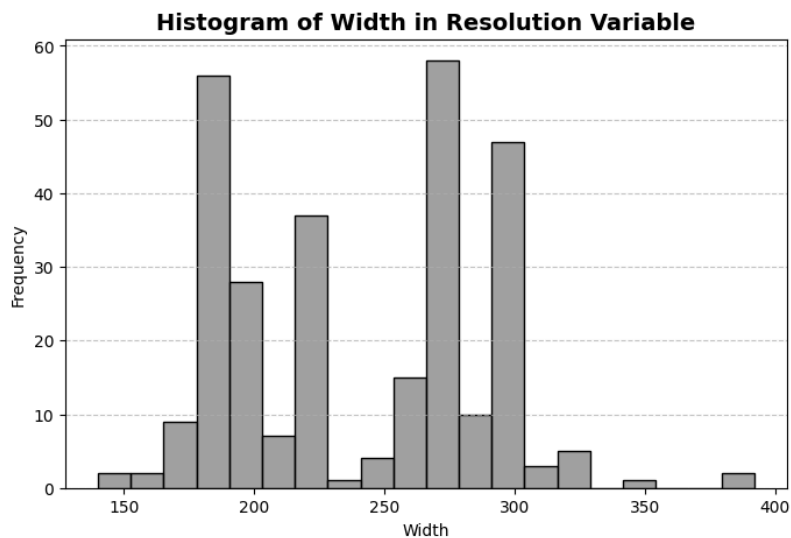


**resolution**

- Definition: The resolution, or quality, of an image listed in the format of “width x height”
- Units of Measurement: Pixels
- Exact Name of Variable in original data file: resolution
- 287(0)
- Steps for processing the variable for cleaned dataset: No changes were made

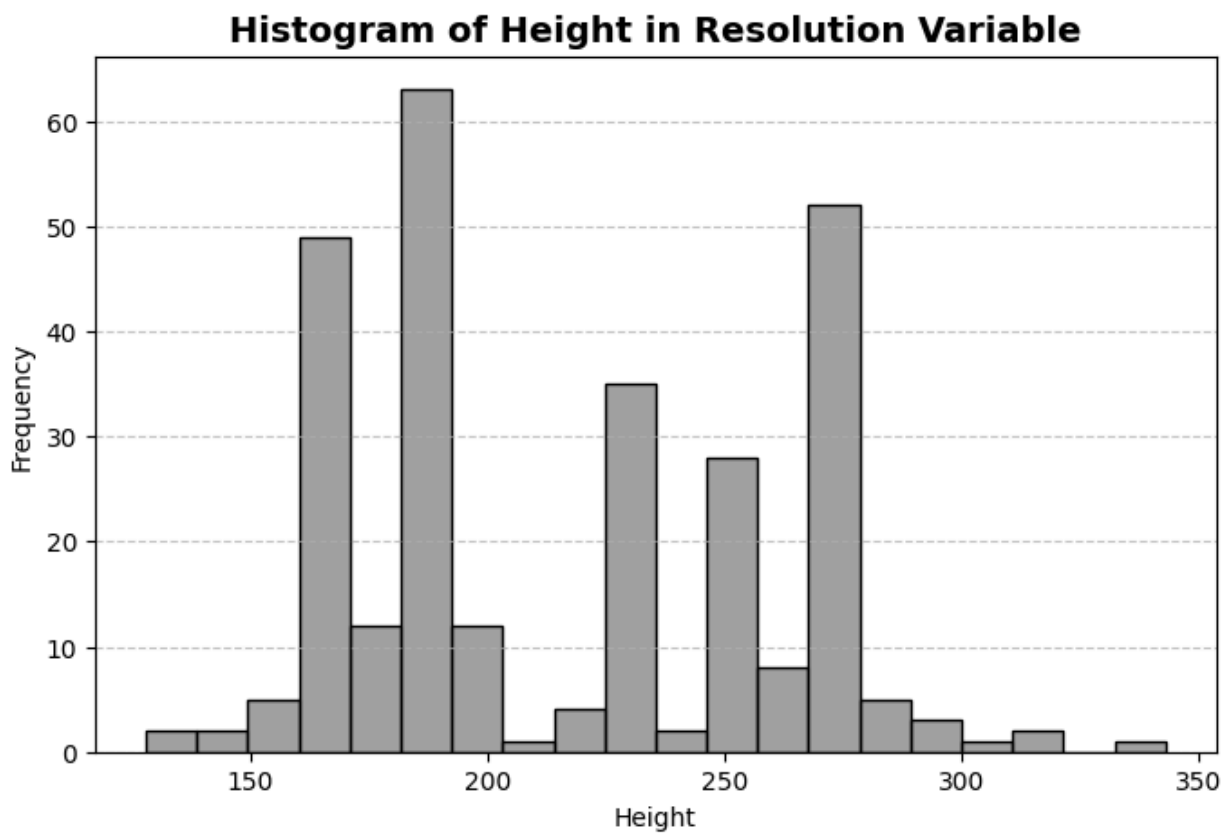
**WIDTH**

Minimum	25th Percentile	Median	Mean	75th Percentile	Maximum	Standard Deviation
140	194	249	241	276	392	48.91



## HEIGHT

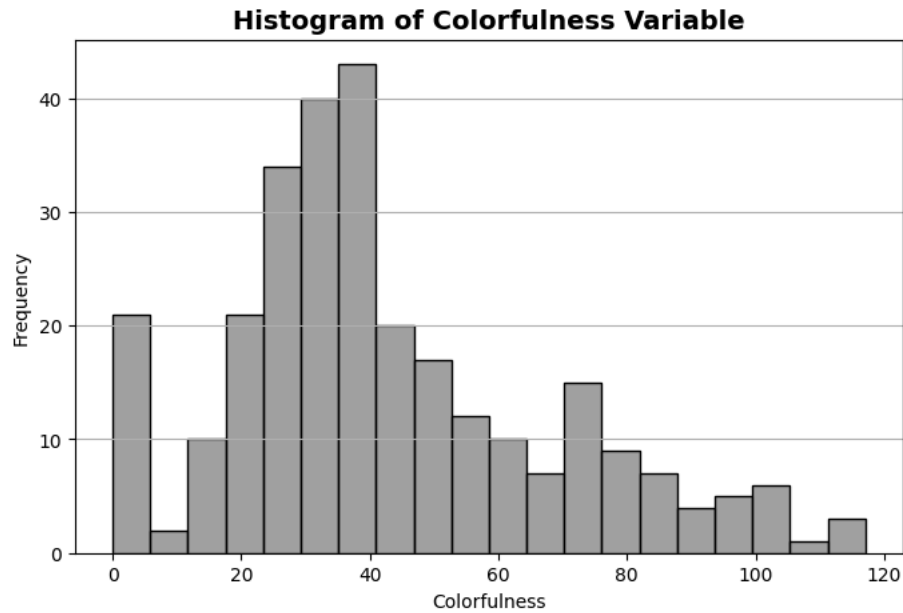
Minimum	25th Percentile	Median	Mean	75th Percentile	Maximum	Standard Deviation
128	182	202	216.16	256.50	343.0	44.31



## *colorfulness*

- Definition: The level of color contained within an image, quantified as a number above 0
- Units of Measurement: N/A
- Exact Name of Variable in original data file: colorfulness
- 287(0)
- Steps for processing the variable for cleaned dataset: No changes were made

Minimum	25th Percentile	Median	Mean	75th Percentile	Maximum	Standard Deviation
0.00	26.71	36.87	42.67	56.29	117.07	25.54



**gender**

- Definition: Gender of the celebrity
- Units of Measurement: N/A
- Exact Name of Variable in original data file: gender
- 2500(0)
- Steps for processing the variable for cleaned dataset: No changes were made

**race**

- Definition: Race of the celebrity
- Units of Measurement: N/A
- Exact Name of Variable in original data file: race
- 2500(0)
- Steps for processing the variable for cleaned dataset: No changes were made