

Skewness and kurtosis

5/5 points (100%)

Quiz, 5 questions

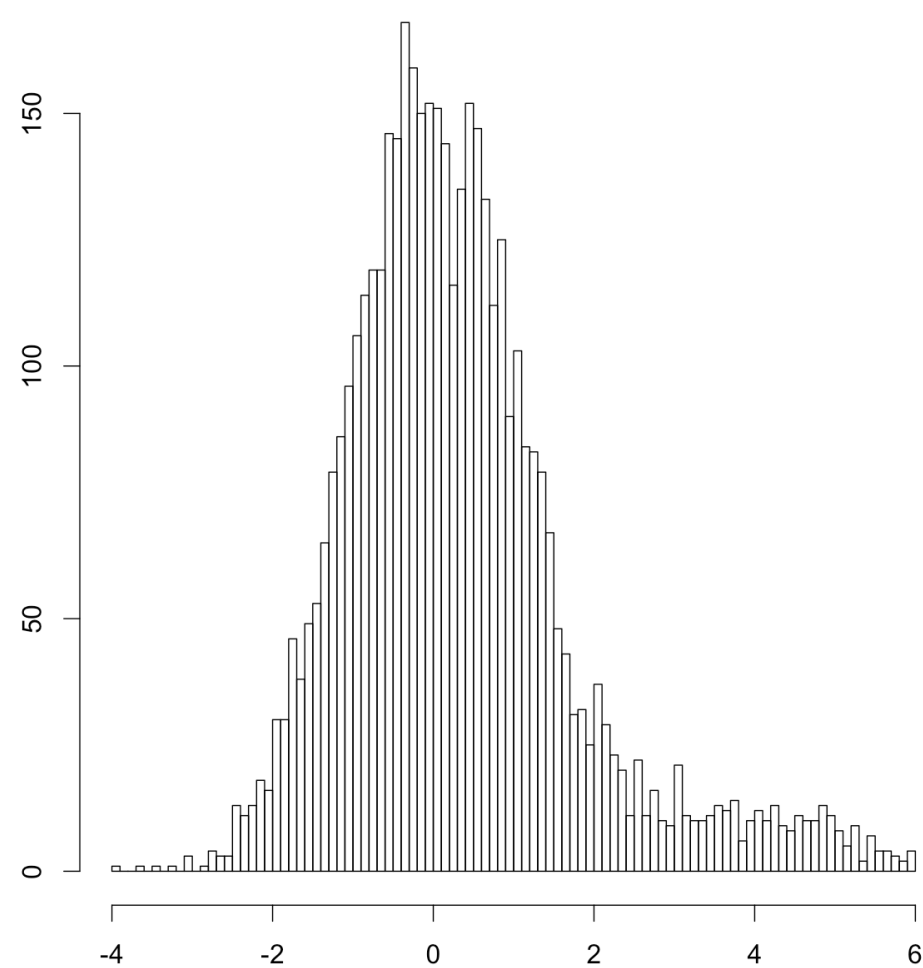
✓ Congratulations! You passed!

Next Item

✓

1 / 1  
points

1.

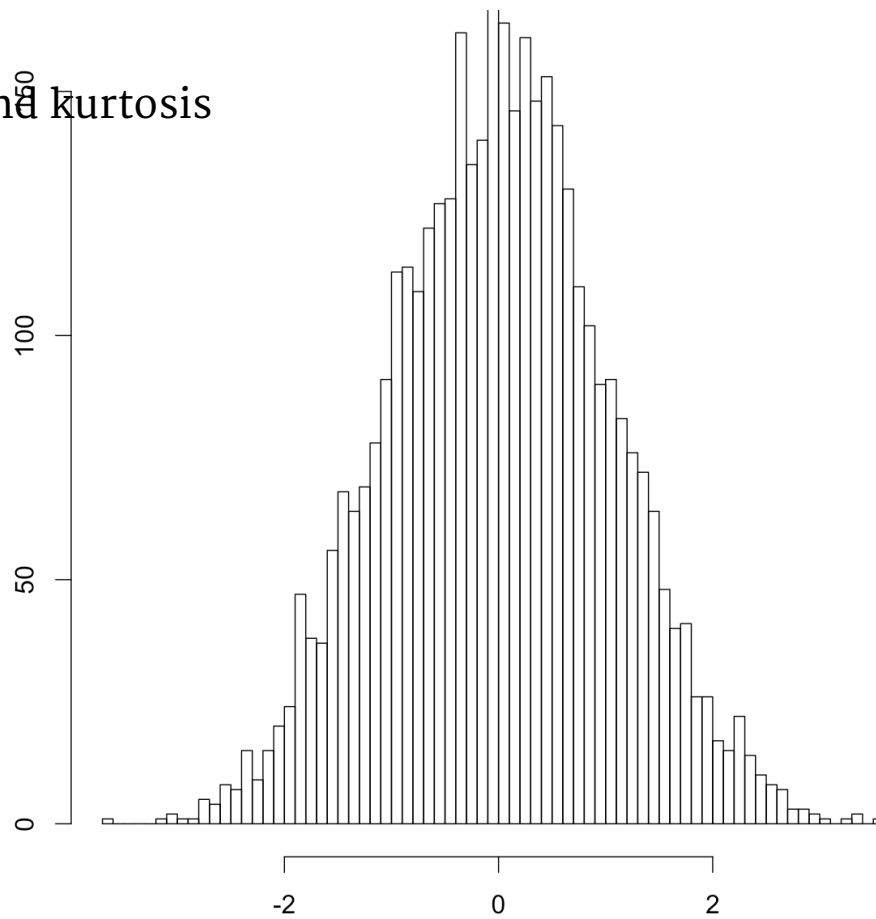


Plot 1

# Skewness and kurtosis

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Plot 2

Which of the two plots indicates a higher kurtosis value?

☒ Plot 1

**Correct**  
Correct

☐ Plot 2



1 / 1  
points

2.

What is the kurtosis of the following list?

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Please enter at least three digits after the decimal

3.297

**Correct Response**

Correct



1 / 1  
points

3.

The higher the kurtosis value, the longer the "tails" of the distributions are. So, kurtosis measures the outlier content. The higher the kurtosis value, the more outliers are in the dataset because the more far a values is away from the mean, the more it contributes to the kurtosis. In other words, the distribution has long tails. Which are examples of long tailed datasets?



Velocity values recorded from all connected cars over one year in a country



**Correct**

Correct



Velocity values recorded from one single connected cars over one hour



**Un-selected is correct**

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Latitude coordinates of all rain drops fallen on earth for the last 60 minutes

**Correct**  
Correct



Number of minutes a lift in a smart building was waiting at each floor over the last 24h

**Correct**  
Correct



Hour of the day a smart light bulb has been turned on and off over the last year

**Un-selected is correct**



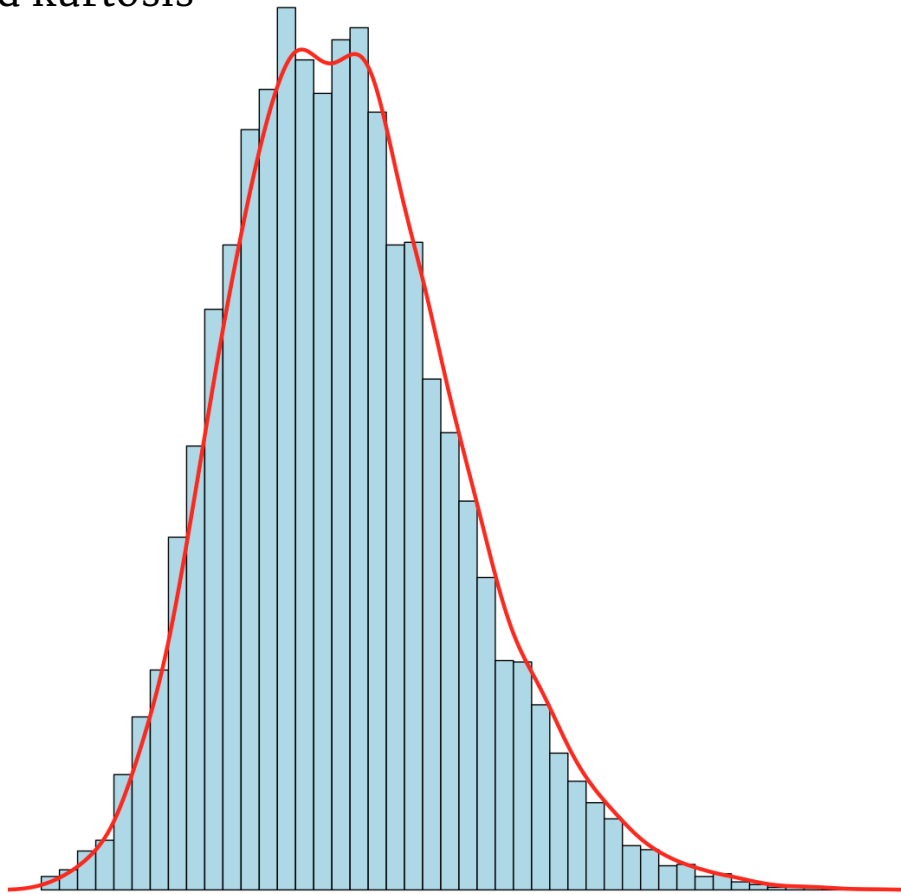
1 / 1  
points

4.

## Skewness and kurtosis

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What is true about this value distribution?

☒ This distribution is positively skewed

**Correct**

☐ This distribution is negatively skewed



1 / 1  
points

5.

Consider a connected car. We are measuring the car's velocity 600 times per minute. Note that in time intervals the car stands the velocity of zero is measured. If we now plot the distribution of velocity values, is this distribution positively or negatively skewed?

☐ negatively skewed