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Interactive Tool: Mean, median and standard deviation

This is an ungraded tool to develop your understanding of the material.

Here you can visualize mean, median, and standard deviation for some discrete and continuous distributions. You can change the parameters of the distributions, and perform experiments to see the relationship between theoretical and experimental distributions.

Note: If you can't get a full view of the tool in the expanded form, please reduce the browser scaling (to about 67%).
Coursera Engineering team is working on this issue.

Choose the example:

Discrete distribution - Roll a dice

Parameters:

Theoretical probabilities

0.17

0.17

0.17

0.17

0.17

0.17

Run the experiment:

one time

10 times

50 times

100 times

Refresh

$x = 6$

Total number of experiments = 100

Experiment:

Roll a dice once.

3 5 4 5 2 1 3 3 3 5 3 1 5 6 4 3 2 3 5 2 1 1 4 5 5 3 3 4 4 1 2 6 2 4 6 5 2 6 3 4 2 3 6 4 4 1 3 2 4 4 1 1 4 5 4 6 2 2 4 4 2 3 6 6 4 6 3 6 6 2 2 3 3 5 2 3 1 6 1 3 3 3 2 1 5 3 6 4 6 2 2 5 4 2 3 6 3 6 4 6



Mark as completed

