
Module
Data Analysis

Lesson
Data Analysis

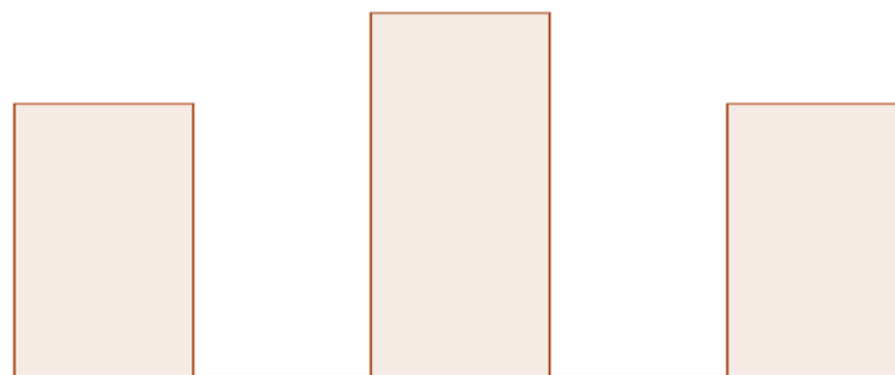
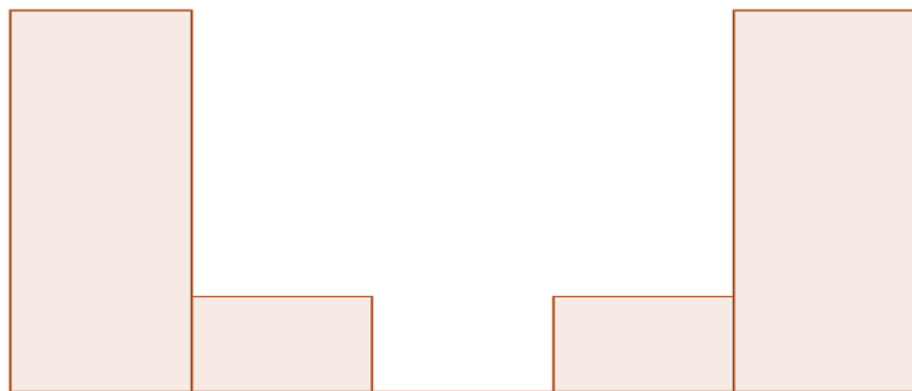
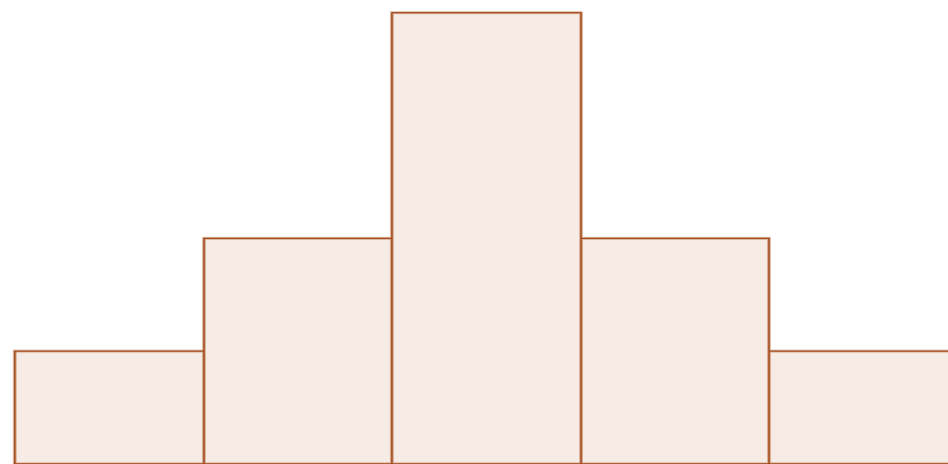
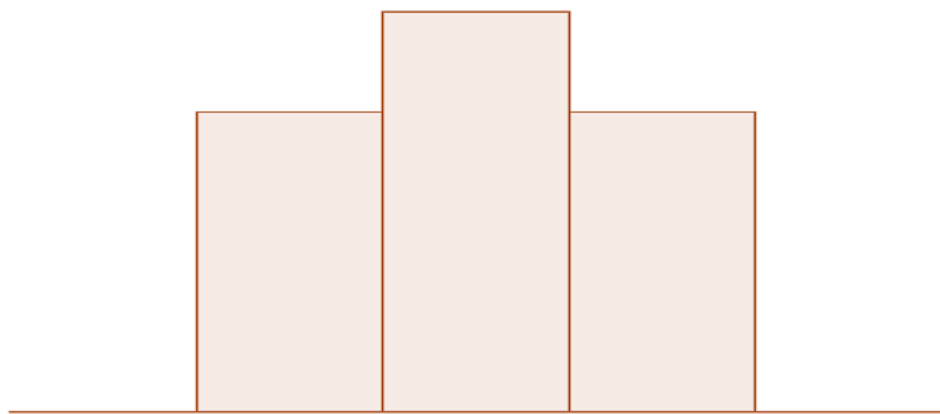
Lecture
Mean and Standard Deviation

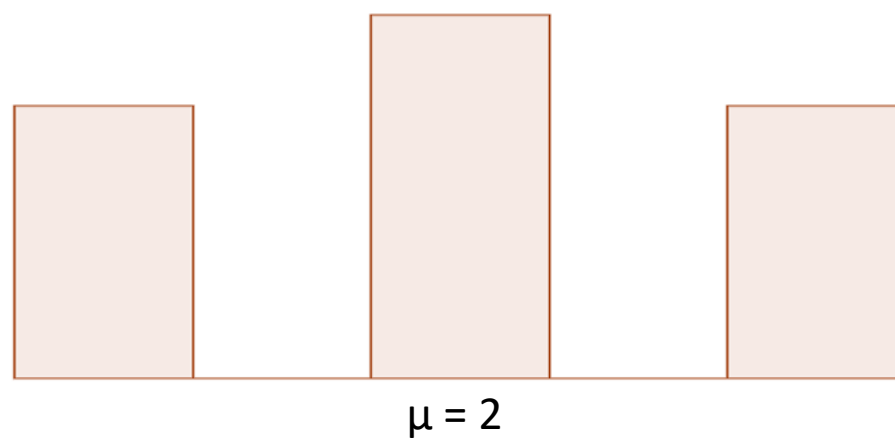
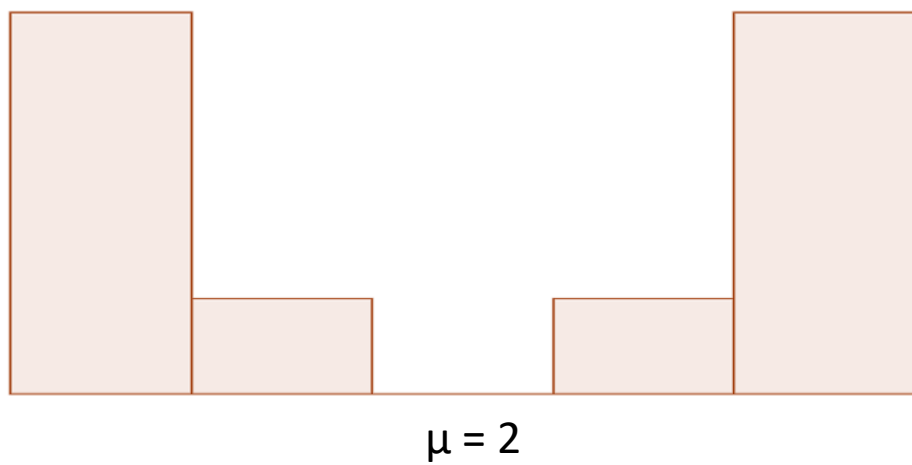
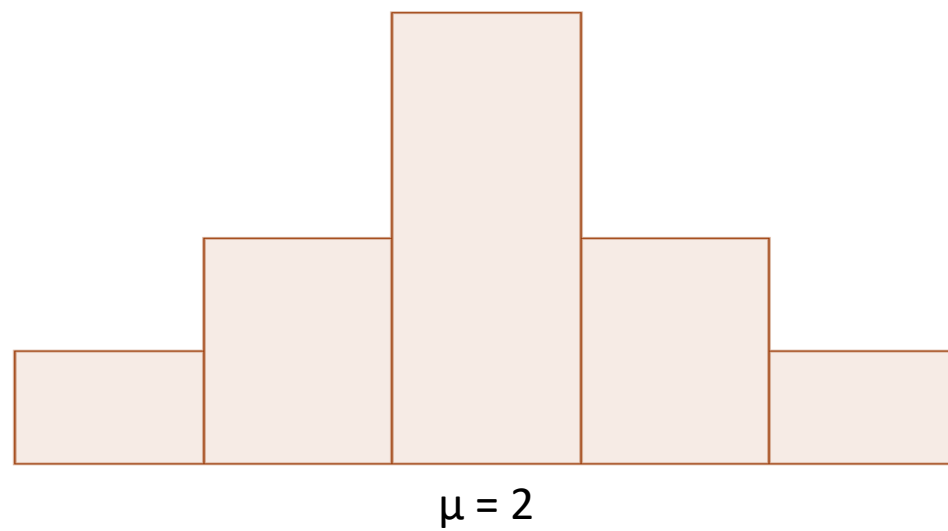
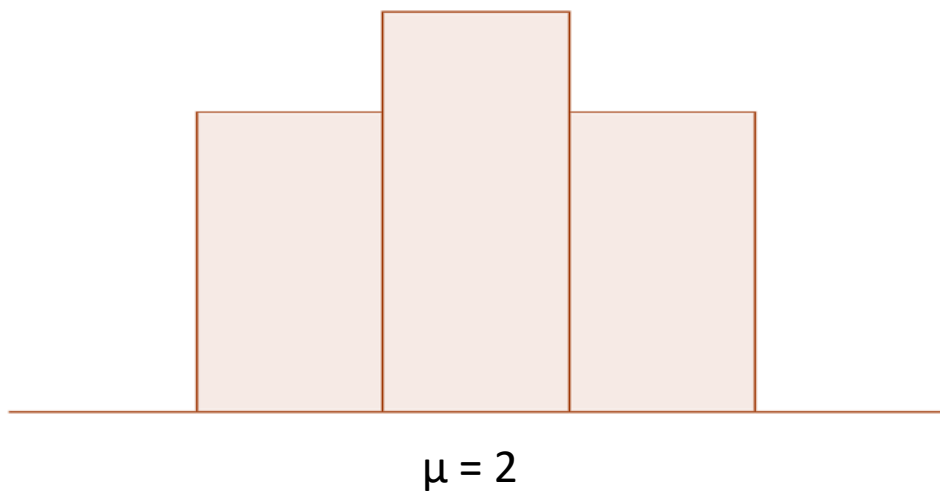
In this lecture, we'll look at mean and standard deviation as ways to analyze data

Source:

<https://docs.google.com/document/d/1jfmgy-OqCCzM2dXP9oZcHbBG5s8Fv8Kjw-FXRii8-3I/edit>

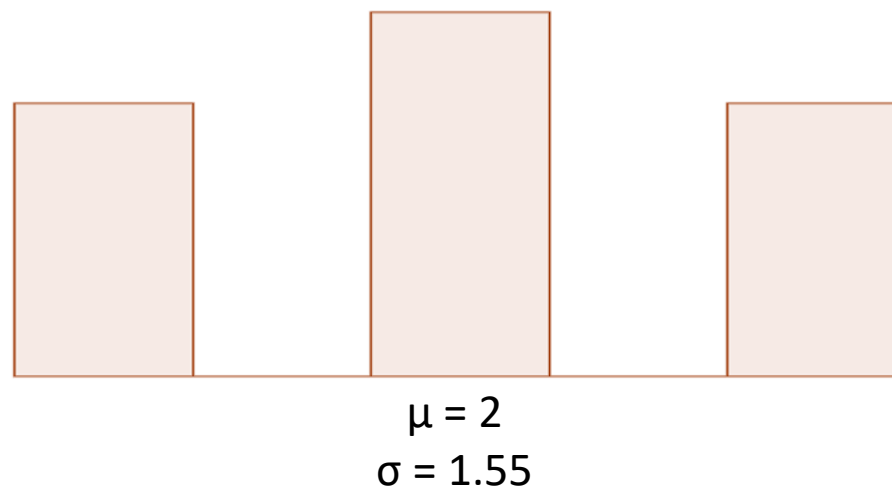
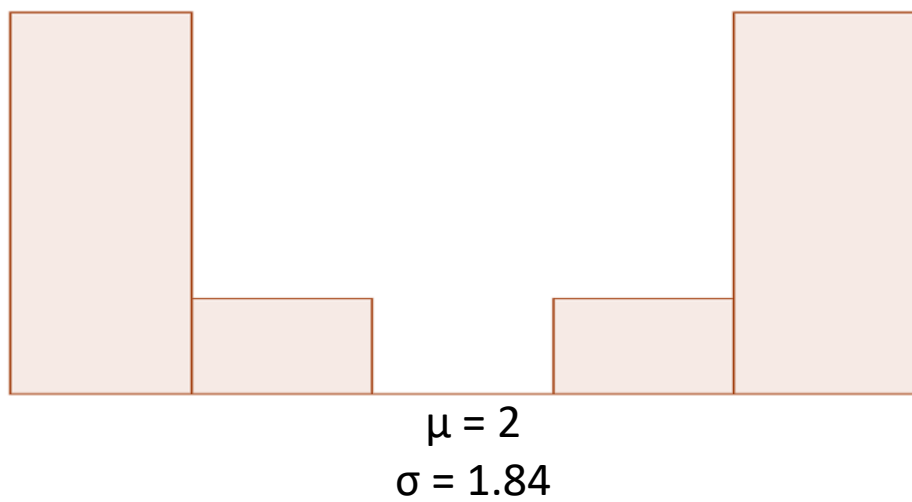
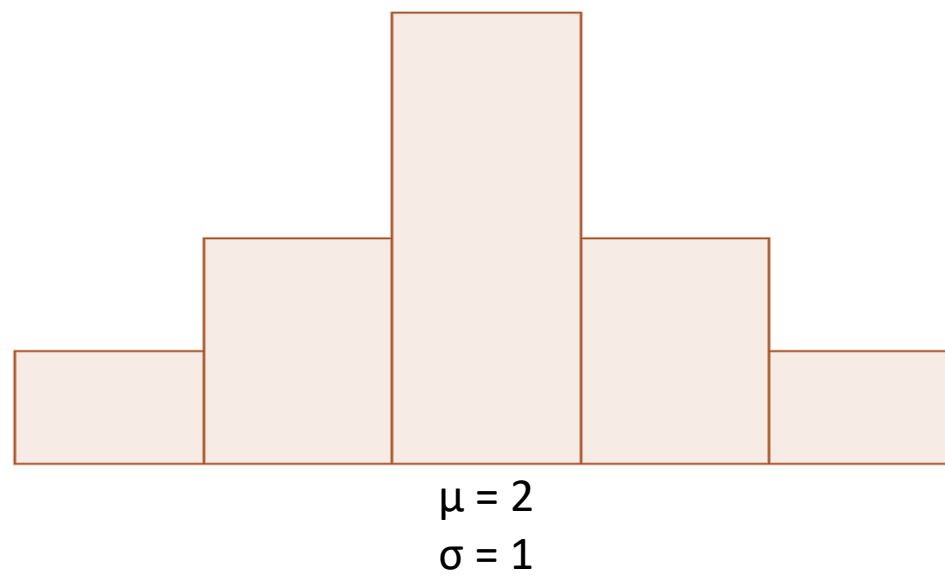
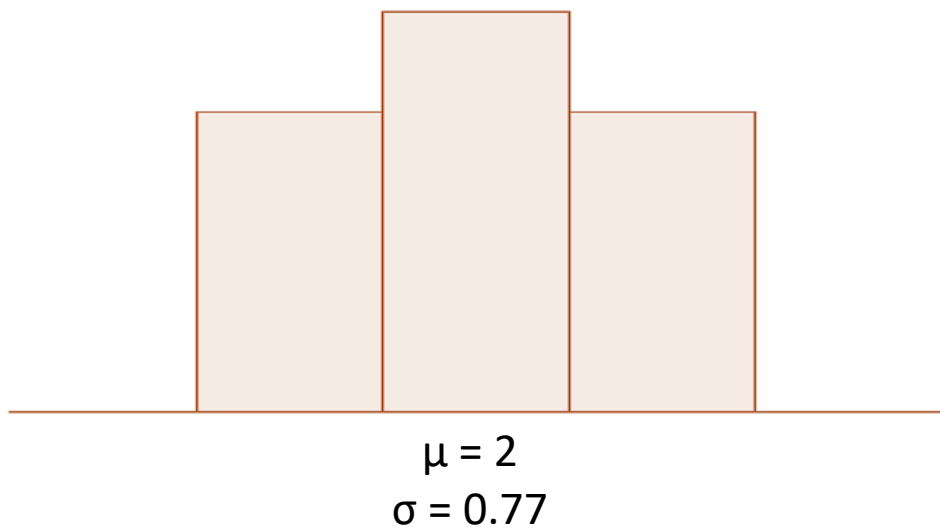
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- Mean
 - Also commonly called average
 - What does it tell us?
 - The central tendency of the data
 - What doesn't it tell us?
 - The actual distribution of data
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- Mean salary in U.S.
 - \$43,000
 - 130,000,000 data points
- CEOs make 262 times what the average worker makes
- Remove 100 CEO salaries from the dataset
 - What's the new mean?

- Standard Deviation
 - Tells us how “spread out” the data is



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- Counts
 - Count the number of times each shoe size appears
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- Let's go to the movies!
 - Analyze the data for the movie attendance (we'll use counts)
 - What kind of movie is it?
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- Recap

- Spreadsheets can be really useful for data analysis
 - Mean tells us about central tendency
 - Standard deviation tells us about the spread of the distribution
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