Lesson 10:
Sampling distributions and the Ce...

SEARCH

RESOURCES

CONCEPTS

9. Notebook + Quiz: Sampling Dist...
10. Text: Sampling Distribution No...
11. Video: Introduction to Notation
12. Video: Notation for Paramete...
13. Quiz: Notation
14. Video: Other Sampling Distrib...
15. Video: Two Useful Theorems - ...
16. Notebook + Quiz: Law of Large...
17. Video: Two Useful Theorems - ...
18. Notebook + Quiz: Central Limit...
19. Notebook + Quiz: Central Limit...

Mentor Help
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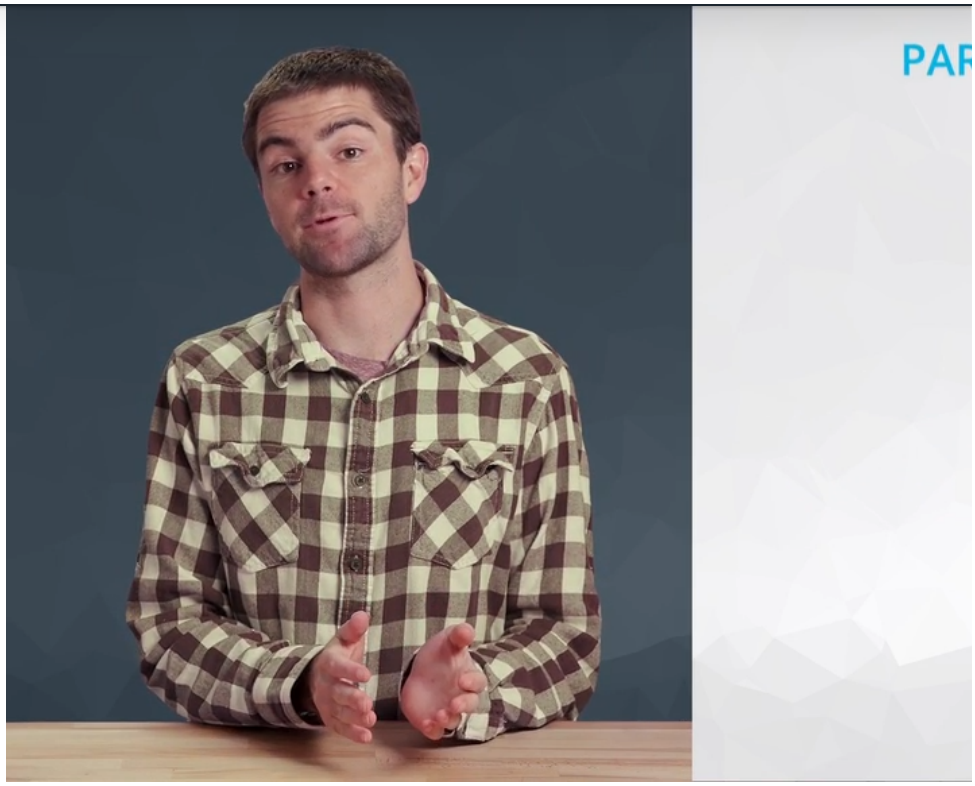
Video: Notation for Parameters vs. Statistics



There should be a 'hat' on the $\sigma^2$ in the statistics side at 0:47 (i.e. $\hat{\sigma}^2$).

As you saw in this video, we commonly use Greek symbols as parameters and corresponding statistics. Sometimes in the literature, you might also see the s a "hat" to represent that this is an estimate of the corresponding parameter.

Below is a table that provides some of the most common parameters and cor shown in the video.

Remember that all **parameters** pertain to a population, while all **statistics** pe

| Parameter | Statistic | Description |
|---|---|---|
| $\mu$ | $\bar{x}$ | "The mean of a dataset" |
| $\pi$ | $p$ | "The mean of a dataset with only 0 and 1 value |
| $\mu_1 - \mu_2$ | $\bar{x}_1 - \bar{x}_2$ | "The difference in means" |
| $\pi_1 - \pi_2$ | $p_1 - p_2$ | "The difference in proportions" |
| $\beta$ | $b$ | "A regression coefficient - frequently used with |
| $\sigma$ | $s$ | "The standard deviation" |
| $\sigma^2$ | $s^2$ | "The variance" |
| $\rho$ | $r$ | "The correlation coefficient" |