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Lesson 10:
Sampling distributions and the Ce...

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Video: Bootstrapping & The Central Limit Theorem

SEARCH

RESOURCES

CONCEPTS

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17. Video: Two Useful Theorems - ...

✓

18. Notebook + Quiz: Central Limit...

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19. Notebook + Quiz: Central Limit...

✓

20. Video: When Does the Central ...

✓

21. Notebook + Quiz: Central Limit...

✓

22. Video: Bootstrapping

✓

23. Video: Bootstrapping & The C...

✓

24. Notebook + Quiz: Bootstrapping

✓

25. Video: The Background of Boo...

✓

26. Video: Why are Sampling Distri...

✓

27. Quiz + Text: Recap & Next Steps

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You actually have been bootstrapping to create sampling distributions in earlier lessons, but this can be extended to a bigger idea.

It turns out, we can do a pretty good job of finding out where a parameter is in the distribution created from bootstrapping from only a sample. This will be covered in the next lessons.

Three of the most common ways are with the following estimation techniques "Maximum Likelihood Estimation", "Method of Moments Estimation", and "Bayesian Estimation" are as shown previously:

- [Maximum Likelihood Estimation](#)
- [Method of Moments Estimation](#)
- [Bayesian Estimation](#)

Though these are beyond the scope of what is covered in this course, these are concepts that should be well understood for data scientists who may need to understand how to estimate a parameter value that isn't as common as a mean or variance. Using one of these methods to estimate a parameter would be a necessity.