



SEARCH



RESOURCES

CONCEPTS

✓ 13. Quiz: Advanced: Standard Devi...

✓ 14. Quiz: Applied Standard Deviat...

✓ 15. Homework 1: Final Quiz on Me...

✓ 16. Text: Measures of Center and ...

✓ 17. Video: Shape

✓ 18. Video: The Shape For Data In T...

✓ 19. Quiz: Shape and Outliers (Wha...

✓ 20. Video: Shape and Outliers

✓ 21. Video: Working With Outliers

✓ 22. Video: Working With Outliers ...

✓ 23. Quiz: Shape and Outliers (Com...



Mentor Help

Ask a mentor on our Q&amp;A platform



Peer Chat 1

Chat with peers and alumni

## Descriptive vs. Inferential Statistics

In this section, we learned about how **Inferential Statistics** differs from **Descr**

### Descriptive Statistics

**Descriptive statistics** is about describing our collected data using throughout this lesson: measures of center, measures of spread, shape of our outliers. We can also use plots of our data to gain a better understanding.

### Inferential Statistics

**Inferential Statistics** is about using our collected data to draw conclusions about a population. Performing inferential statistics well requires that we take a sample that represents our population of interest.

A common way to collect data is via a survey. However, surveys may be extremely different types of questions that are asked, and the way the questions are asked. Think about when tackling the first project.

We looked at specific examples that allowed us to identify the

1. **Population** - our entire group of interest.
2. **Parameter** - numeric summary about a population
3. **Sample** - subset of the population
4. **Statistic** - numeric summary about a sample

### Looking Ahead

Though we will not be diving deep into inferential statistics within this course, you can see the difference between these two branches of statistics. If you have ever conducted a hypothesis test or built a confidence interval, you have performed inferential statistics. The way we use statistics is changing as technology evolves. Many career paths involving **Machine Learning** and **Artificial Intelligence** are aimed at using collected data to draw conclusions about a population at an individual level. It is an exciting time to be a part of this space, and you are encouraged to join the other practitioners!

