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INTERACTIVE COURSE

Intro to Statistics with R: Introduction

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Course Description

Not sure if this is the type of online statistics course you're looking for? Or perhaps not yet familiar with DataCamp's interactive learning interface? By taking this free course, you can discover it for yourself! Via a combination of videos and interactive coding challenges, this introductory course will teach you about variables, plotting, and summary statistics like the mean and standard deviation. Enjoy learning by doing!

1 Variables

100%

In this chapter professor Conway will cover types of variables. It is very important to understand what type of variable you are dealing with when conducting a particular type of statistical analysis. You will cover variables such as nominal, ordinal, interval and ratio, and you will experiment with these via interactive exercises in R.

- Types of variables ✓ 50 xp
- Basketball standings ✓ 50 xp
- Longitude and latitude ✓ 50 xp
- Nominal variables in R ✓ 100 xp
- Ordinal variables in R ✓ 100 xp
- Interval and ratio variables in R ✓ 100 xp
- On the Theory of Scales of Measurement (Stevens, 1946) ✓ 50 xp
- Two nominal variables ✓ 50 xp
- Quick summary ✓ 50 xp

HIDE CHAPTER DETAILS

Completed

2 Histograms and Distributions

100%

You will look here at distributions in graphs called histograms. A histogram is one of the simplest graphs used in statistics, but they are very useful and very informative. Studying histograms will help you to overcome the tendency to put too much of a focus on summary statistics.

- Histograms and distributions ✓ 50 xp
- Creating histograms in R ✓ 100 xp
- Reading histograms ✓ 50 xp
- Looking at distributions by using histograms (1) ✓ 50 xp
- Positive and negative skew ✓ 50 xp
- Looking at distributions by using histograms (2) ✓ 50 xp
- Red wine tasting ✓ 100 xp
- White wine tasting ✓ 100 xp
- A uniform distribution ✓ 50 xp
- A negatively skewed distribution ✓ 50 xp
- Leptokurtic distribution ✓ 50 xp
- Quick summary ✓ 50 xp

HIDE CHAPTER DETAILS

Completed

3 Scales of Measurement

100%

When working with data it is very important to keep in mind what type of scale you are dealing with, hence this chapter on scales of measurement. This chapter will introduce you to the different types of scales with a specific focus on the standard scale, the z-scale.

- Scales of measurement ✓ 50 xp
- Converting a value to its Z-score ✓ 50 xp
- Interpretation of a Z-score ✓ 50 xp
- Converting a distribution to Z-scale ✓ 100 xp
- Quick summary ✓ 50 xp

HIDE CHAPTER DETAILS

Completed

4 Measures of Central Tendency

100%

In the previous chapters you looked at distributions and the importance of these. In this chapter the focus is more on summarizing all available information and drafting summary statistics. To make it a little bit more fun, the examples will be based on a wine tasting experiment :-).

- Measures of central tendency ✓ 50 xp
- The mean of a Fibonacci sequence ✓ 100 xp
- Three measures of central tendency (1) ✓ 50 xp
- Measures of central tendency: mode ✓ 50 xp
- Choosing a measure of central tendency ✓ 50 xp
- Three measures of central tendency (2) ✓ 50 xp
- Setting up histograms ✓ 100 xp
- Types of distribution ✓ 50 xp
- Robustness to outliers ✓ 100 xp
- Get intuitive! ✓ 50 xp
- Quick summary ✓ 50 xp

HIDE CHAPTER DETAILS

Completed

5 Measures of Variability

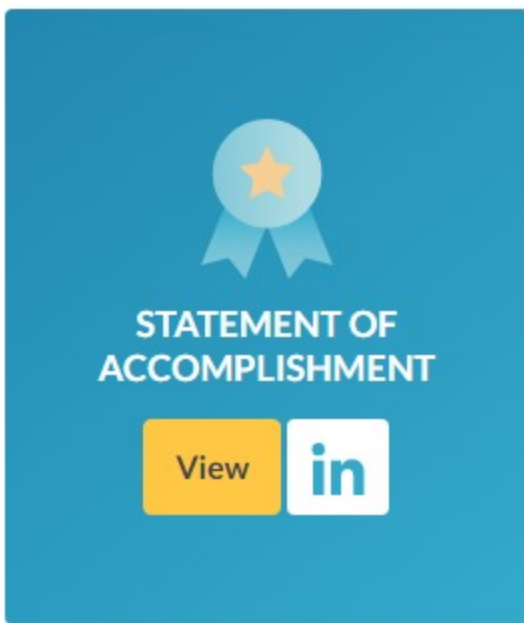
100%

Measures of central tendency try to capture the center point of a distribution. Measures of variability want to capture how much spread there is, or how wide the distribution is. The two measures you will look at in this final chapter will be standard deviation and variance.

- Measures of variability ✓ 50 xp
- Sample variance formula ✓ 50 xp
- Calculating variance in practice ✓ 50 xp
- Purpose of measures of variability ✓ 50 xp
- Michael Jordan's first NBA season ✓ 100 xp
- Calculate the variance manually ✓ 100 xp
- Get intuitive! ✓ 50 xp
- Quick summary ✓ 50 xp

HIDE CHAPTER DETAILS

Completed



Andrew Conway
Instructor

Andrew Conway is a Psychology Professor in the Division of Behavioral and Organizational Sciences at Claremont Graduate University in Claremont, California. He has been teaching introduction to statistics for undergraduate students and advanced statistics for graduate students for 20 years, at a variety of institutions, including the University of South Carolina, the University of Illinois in Chicago, and Princeton University.

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