

## CHAPTER OVERVIEW

### 11: Logic of Hypothesis Testing

When interpreting an experimental finding, a natural question arises as to whether the finding could have occurred by chance. Hypothesis testing is a statistical procedure for testing whether chance is a plausible explanation of an experimental finding. Misconceptions about hypothesis testing are common among practitioners as well as students. To help prevent these misconceptions, this chapter goes into more detail about the logic of hypothesis testing than is typical for an introductory-level text.

[11.1: Introduction to Hypothesis Testing](#)

[11.2: Significance Testing](#)

[11.3: Type I and II Errors](#)

[11.4: One- and Two-Tailed Tests](#)

[11.5: Significant Results](#)

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[11.7: Steps in Hypothesis Testing](#)

[11.8: Significance Testing and Confidence Intervals](#)

[11.9: Misconceptions of Hypothesis Testing](#)

[11.10: Statistical Literacy](#)

[11.E: Logic of Hypothesis Testing \(Exercises\)](#)

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