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Congratulations! You have completed Week 1.

Start Week 2

(/learn/data-analysistools/home/week/2)

Hypothesis Testing and ANOVA





This session starts where the Data Management and Visualization course left off. Now that you have

More

The role of probability in inference

Lesson 1 - The role of (**>**) probability in inference 10 min

(/learn/data-analysistools/lecture/0bAyf/lesson-1-the-role-ofprobability-in-inference)

Help Center

From sample to population?



Lesson 2 - From sample to population 6 min

(/learn/data-analysistools/lecture/GBSLZ/lesson-2-from-sampleto-population)

Steps in hypothesis testing



Lesson 3 - Steps in hypothesis testing 8 min

(/learn/data-analysistools/lecture/KhuKo/lesson-3-steps-inhypothesis-testing)

What is a p value?



Lesson 4 - What is a p value? 6 min

(/learn/data-analysistools/lecture/AgKWT/lesson-4-what-is-a-pvalue)

How to choose a statistical test



Lesson 5 - How to choose a statistical test 2 min

(/learn/data-analysistools/lecture/hHz26/lesson-5-how-to-choosea-statistical-test)

Ideas behind ANOVA



Lesson 6 - Ideas behind ANOVA 10 min

(/learn/data-analysistools/lecture/YyCRP/lesson-6-ideas-behindanova)

Software Setup and Course Supporting Materials



Choosing SAS or Python

(/learn/data-analysistools/supplement/6nHBL/choosing-sas-orpython)



Getting Started with

(/learn/data-analysistools/supplement/wyORN/getting-startedwith-sas)



Getting Started with Python

(/learn/data-analysistools/supplement/WZt9l/getting-started-withpython)



Course Codebooks and Data

(/learn/data-analysistools/supplement/Qc7C3/course-codebooksand-data)



Uploading Your Own
Data to SAS

(/learn/data-analysistools/supplement/5CeHm/uploading-yourown-data-to-sas)

SAS Lessons



SAS Program Code for Video Examples

(/learn/data-analysistools/supplement/51L9n/sas-program-codefor-video-examples)

SAS Lesson 7 - ANOVA:

Explanatory variable with 2 levels 7 min

(/learn/data-analysis-tools/lecture/jzZaF/sas-lesson-7-anova-explanatory-variable-with-2-levels)

SAS Lesson 8 - ANOVA:

Explanatory variables with more than 2 levels 3 min

(/learn/data-analysis-tools/lecture/LjRrV/sas-lesson-8-anova-explanatory-variables-with-more-than-2-levels)

SAS Lesson 9 - Post hoc tests for ANOVA 5 min

(/learn/data-analysis-tools/lecture/dzTFB/sas-lesson-9-post-hoc-tests-for-anova)

SAS Lesson 10 - ANOVA summary 3 min

(/learn/data-analysis-tools/lecture/b5x5j/sas-lesson-10-anova-summary)

Python Lessons



Python Program Code for Video Examples

(/learn/data-analysistools/supplement/7rf6V/python-programcode-for-video-examples)

Python Lesson 7 -



ANOVA: Explanatory variables with two levels 8 min

(/learn/data-analysistools/lecture/EIVbC/python-lesson-7-anovaexplanatory-variables-with-two-levels)

Python Lesson 8 -



ANOVA: Explanatory variables with more than 2 levels 3 min

(/learn/data-analysistools/lecture/GCox2/python-lesson-8-anovaexplanatory-variables-with-more-than-2levels)



Python Lesson 9 - Post hoc tests for ANOVA 6 min

(/learn/data-analysistools/lecture/uMNjz/python-lesson-9-posthoc-tests-for-anova)



Python Lesson 10 -ANOVA Summary 3 min

(/learn/data-analysistools/lecture/gaslg/python-lesson-10-anovasummary)

Assignment



Getting set up for the assignments

(/learn/data-analysistools/supplement/3mMvg/getting-set-up-forthe-assignments)



Tumblr Instructions

(/learn/data-analysistools/supplement/0YIIG/tumblr-instructions)

Example: Running an



analysis of variance

(/learn/data-analysistools/supplement/wizuP/example-runningan-analysis-of-variance)

Assignment: Running an

✓ analysis of
variance 30 min

(/learn/data-analysistools/peer/nhp1Q/running-an-analysis-ofvariance)

Review Classmates:

✓ Running an analysis of variance 30 min

(/learn/data-analysistools/peer/nhp1Q/running-an-analysis-ofvariance/give-feedback)