

 Lagunita is retiring and will shut down at 12 noon Pacific Time on March 31, 2020. A few courses may be open for self-enrollment for a limited time. We will continue to offer courses on other online learning platforms; visit <http://online.stanford.edu>.

Course > Introduction > Contents > Contents for EDA: Examining Distributions

 Bookmark this page

## Contents for EDA: Examining Distributions

### Exploratory Data Analysis (EDA) Overview

- The Big Picture: Exploratory Data Analysis
- Data and Variables
- Scales of Measurement
- Examining Distributions

### One Categorical Variable

- Frequency Distributions
- Pie and Bar Charts
- Pictograms

### One Quantitative Variable: Graphs

- One Quantitative Variable Introduction
- Histogram: Intervals
- Histogram: Shape
- Histogram: Center, Spread, and Outliers
- Extra Problems
- Stemplot

### One Quantitative Variable: Measures of Center

- Numerical Measures Introduction

- Mode, Mean, and Median
- Learn By Doing Activity
- Comparing Mean and Median
- Extra Problems

## **One Quantitative Variable: Measures of Spread - Range, IQR, and Outliers**

- Measures of Spread Introduction
- Range
- Inter-Quartile Range (IQR)
- Calculating the IQR
- Using the IQR to Detect Outliers
- Understanding Outliers

## **One Quantitative Variable: Measures of Spread - Boxplots**

- Boxplot: The Five Number Summary
- Boxplot: Constructing a Boxplots
- Learn By Doing Activity
- Extra Problems
- Boxplot: Side-By-Side Boxplots

## **One Quantitative Variable: Measures of Spread - Standard Deviation**

- Standard Deviation Introduction
- Standard Deviation Rule
- Standard Deviation Rule: Applications
- Extra Problems

## **Examining Distributions Summary**

- Wrap-Up (Examining Distributions)
-

Open Learning Initiative [↗](#)

[↗](#) Unless otherwise noted this work is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License [↗](#).

© All Rights Reserved