

Rough Outline

Topics For Unit 3

Lesson 1:

Introduction to Data Visualization

1. Data Visualization Introduction
2. Why Do We Use Data Visualizations?
3. Identifying Data Types
4. Univariate Plots
5. Scatter Plots
6. Correlation Coefficients
7. Line Plots
8. What is the Question?
9. What About with More Than Two Variables?
10. Why Data Dashboards
11. Introduction to Data Dashboards

Lesson 2:

Design

1. Exploratory vs. Explanatory Analyses
2. What Makes a Bad Visual?
3. What Experts Say About Visual Encodings
4. Chart Junk
5. Data Ink Ratio
6. Design Integrity
7. Using Color
8. Designing for Color Blindness
9. Shape, Size, & Other Tools
10. General Design Tips
11. Good Visual
12. Tell A Story
13. Same Data, Different Stories

Lesson 3:

Data Visualizations in Tableau

1. Text: Installing Tableau
2. Commas vs Periods
3. Connecting to Data
4. Combining Data
5. What Can You Create In Tableau?
6. Worksheets

7. Saving to Tableau Public
8. Aggregations
9. Hierarchies
10. Marks & Filters
11. Show Me
12. Small Multiples & Dual Axis
13. Map Configuration
14. Groups & Sets
15. Calculated Fields
16. Table Calculations

Lesson 4:

Making Dashboards & Stories in Tableau

1. Communicating With Your Data
2. Hierarchies
3. Building Dashboards
4. Building Data Dashboards
5. General Notes for Building Stories