Foundations Seminar: Data 8

Week 4

Problems

1. What's my least favorite boba shop? What's my favorite?
2. Select only the good boba shops. How many are there?
3. Give me a table of the first 2 columns
4. Find my average rating for each of my "Awesome" and "Bad" opinions in a table
5. An array of the names of the best 2 boba places
6. Find the average rating of the bottom 3 boba places
7. Give me the following output:

Boba	Ratings	My Opinion
Asha	10	Awesome
Sharetea	9	Awesome
Tapioca Express	1	Bad
Tea One	1	Bad
UCha	8	Awesome
Purple Kow	5	Bad
723 Tea Station	4	Bad

Boba	Awesome	Trash
723 Tea Station	0	4
Asha	20	0
Purple Kow	0	5
Sharetea	9	0
Tapioca Express	0	1
Tea One	0	1
UCha	8	0

Histograms

- Different from bar charts
- % per unit on the y axis, unit on the x axis
- You can't specifically tell what a value is in a histogram, only where it falls and what % of the data a bin represents

Concept Review

.apply, .group, .pivot

Functions

- Think about it like a math equation, replace what was explicitly stated with a variable
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Print vs Return statements

How to learn to code

1. Get started!
2. Practice, practice, practice
3. Get the fundamentals right
   a. The concepts are much more important than the notation
   b. Get the "grammar" right, not the "spelling"
   c. Focus on 1 language
   d. Think about the result before starting
4. The most intuitive way isn't always the best way
5. Google
   a. How to read documentation
   b. Stackoverflow
      i. Understand what is going on