



Study Ch. 2.1, #1-5, $6(\sim7)$, 8(13)

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2.1 Variables & Data

Study Ch. 2.1, # 1-13

Variable: characteristic that varies from one individual to another in the population

- 1. Qualitative: value is NOT a number eg: hair color, type of battery, etc.
- 2. Quantitative: value IS a number eg: weight, height, minutes, etc.

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2.1 Variables & Data
2. Quantitative: value IS a NUMBER eg: weight, height, minutes, etc.
a) Discrete: possible values can be listed (finite) eg: counts
b) Continuous: possible values on an interval (not finite) eg: 60gm ≤ NSWO mass ≤ 110gm
Statistical methods are designed with basic assumptions which depend on the type of data> analyze qualitative data differently from continuous data
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2.1 Variables & Data	
Saw-whets	Broad-winged Hawks
qualitative or quantitative?	type of variable?
qualitative	y-axis?
	date
quantitative?	dots (2014 data)
discrete	
continuous	Species codes "Since 1971"
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2.2 Grouping Qualitative Data

Goals:

- 1. Organize data by grouping
- 2. Find frequencies and relative frequencies of groups
- 3. Construct a frequency distribution table
- 4. Graph the data to display groups for easy comparison

Study Ch. 2.2 #17(15), 19(17), 29a b d

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2.2 Grouping Qualitative Data

Study Ch. 2.2 #15-19, 23, 29

As the number of data items increases, we need a way to

- 1. organize and manage how we think about the data
- 2. determine how the data is distributed

4 regions in US (Census Bureau): Northeast (NE), Midwest (MW), South (S), and West (WE) Region by State SO WE WE MW SO MW MW NE WE NE WE SO SO WE SO WE SO MW SO MW WE NE SO SO MW SO SO NE MW MW NF WF

What can you tell from this data set without organization?

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