Finding out that 9 out of 10 Dentists Do Agree Data Collection

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Data Collection

What is it? Collecting data for a specific purpose

Why would we do it?

Research, get information or feedback on a product

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Publicly Available Data Sets

- Saves time in data collection in the fact that you don't actually have to collect the data
- Have to check that the data is credible
- Good for use in the classroom to practice manipulating data
- Kaggle Datasets
- Data.gov

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Types of Data

- Many different types of data and information
- Each is applicable to its own situation
- Numbers vs words vs true/false

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Types of Data - Sensors

In engineering and electronics, sensors provide lots of data to us and to the circuits they're used in

- Digital Signals
 - On or off signals, 0 or 1
 - Buttons
 - Switches
- Analog Signals
 - Provides a range of signals, 0-x
 - Light level sensors
 - Microphones

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Types of Data - Surveys

- In statistics, we use survey data to get information from a group of people
- Numerical Responses
 - "How old are you?"
 - Can perform mathematical operations on this data
 - Mean, Median, Range
- Multiple Choice Responses
 - "Choose, from this list, where you live"
 - Easy to tally up responses and perform operations on them
- Open Ended Responses
 - "What is your opinion on x"
 - Can be answered with anything
 - Much harder to automate responses analysis

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Crowdsourcing

- Collecting information from a group on the internet
- Companies use this to survey how a product is doing
- Waze is an app that uses crowdsourced information to share travel times
- StackOverflow is a place you can ask a question and get an answer from a crowd
- Requires crowd participation to be successful

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Applicability

- It's important to have credible, appropriate, and accurate data
- If data is not applicable, then it becomes useless
- When surveying, make sure the format of the questions as well as the material is beneficial
- When asking for numerical data, don't use and open ended response

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Recap

- Data is useful in many situations
- Data is only useful if collected and used properly

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