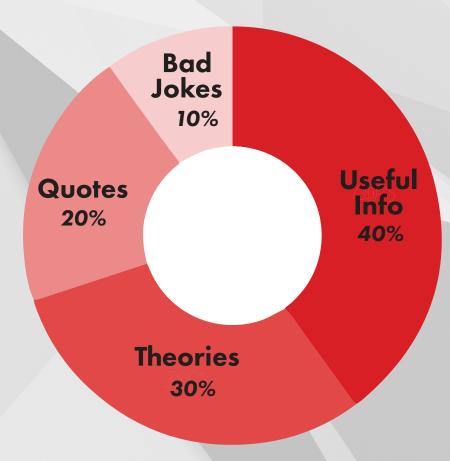
## Data Visualization

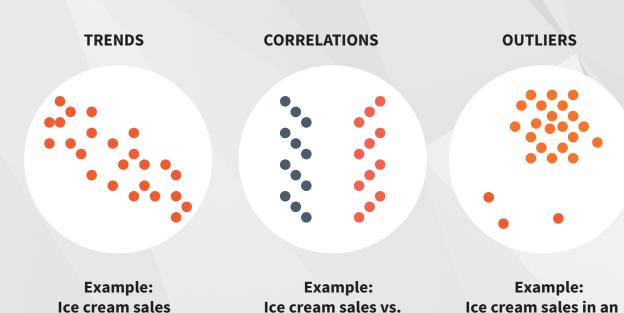
#### This Presentation



by Jamdan Clang

## What is Data Visualization?

over time



Data visualization is the representation of data in a pictorial or graphical format.

Ice cream sales vs.

temperature

unusual region

# Why is it important?

"As someone who has done a lot of writing with data, I know the limitations that words have, and there's only so much writing you can do that will explain data that won't bore someone to death."

- Prof. Matt Waite

#### Multimedia Effect

Using any two out of the combination of audio, visuals, and text promote deeper learning than using just one or all three.

## Contiguity Principle



Learning is more effective when relevant information is presented closely together.

## Segmenting Principle



More effective learning happens when learning is segmented into smaller chunks. Breaking down long lessons and passages into shorter ones helps promote deeper learning.

## Static

- Easy Distribution
- **♦ Single Level of info**
- **♦ Producer chooses info**

#### Interactive

- ♦ Internet/Mobile
- Multiple Levels of info
- **♦ Reader chooses info**

## Tips:

"Honestly, it's like learning how to play guitar, you have to plunk around and make noise, there's really not any better way than actually trying to make something."

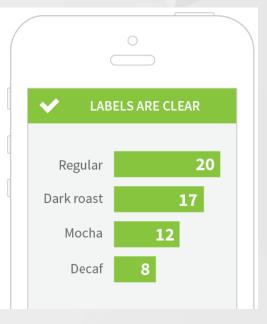
- Prof. Matt Waite

## Tips:



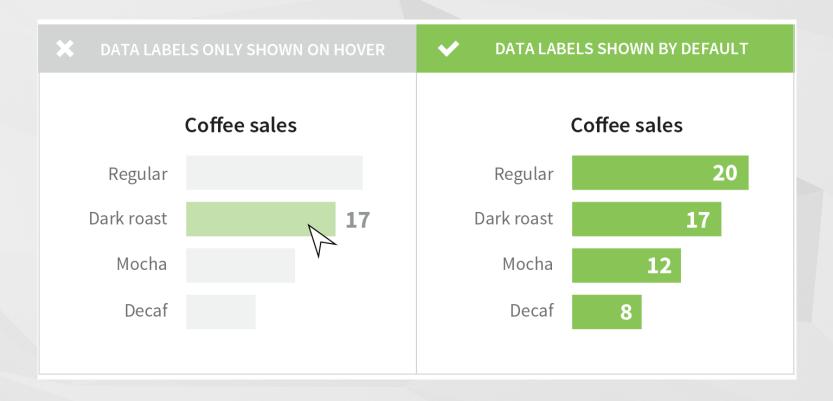




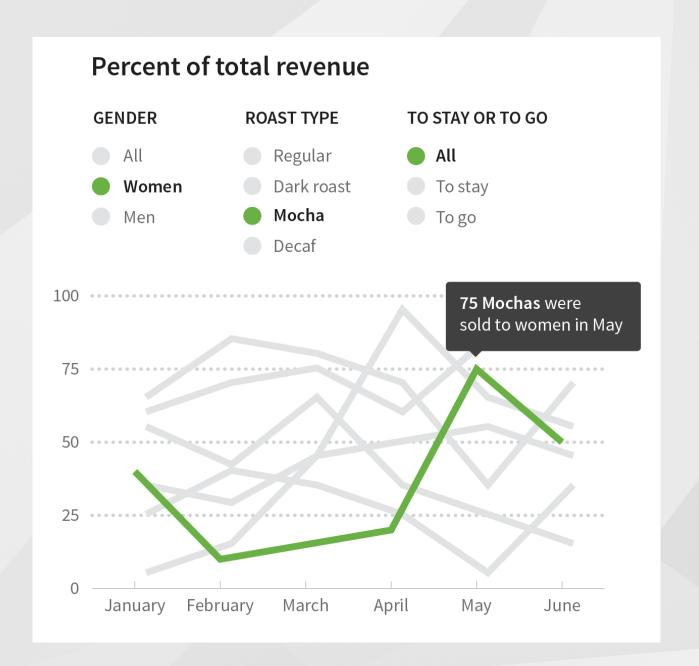


## Interactive

## "Make the least interactive thing that works."



#### Interactive



Lincoln
Community
Mapping
Project

## Data Vis Checklist

Type of graph should be appropriate for the data being presented.

Should have a practical or statistical significance.

#### Resources:

- ♦ Chartbuilder (static charts)
- ♦ infogr.am
- ♦ Visage
- ♦ canvasis.com
- Google fusion tables
- ♦ Tableau public

### References:

Company, B. (n.d.). Why your brain needs data visualization. Retrieved October 16, 2016, from

http://www.sas.com/en\_us/insights/articles/analytics/why-your-brain-needs-data-visualization.html#

Data Visualization Checklist. Retrieved October 16, 2016, from

http://stephanieevergreen.com/wp-content/uploads/2014/05/DataVizChecklist\_May2014.pdf

E-Learning Theory (Mayer, Sweller, Moreno) - Learning Theories. (2016). Retrieved September 27, 2016, from

https://www.learning-theories.com/e-learning-theory-mayer-sweller-moreno.html

Rigdon, B. S. (n.d.). Data Design. Retrieved October 16, 2016, from https://infoactive.co/data-design/ch16.html