Datavis Workshop wwcode

Hannah Yan Han

Why visualize

A picture is worth a thousand words

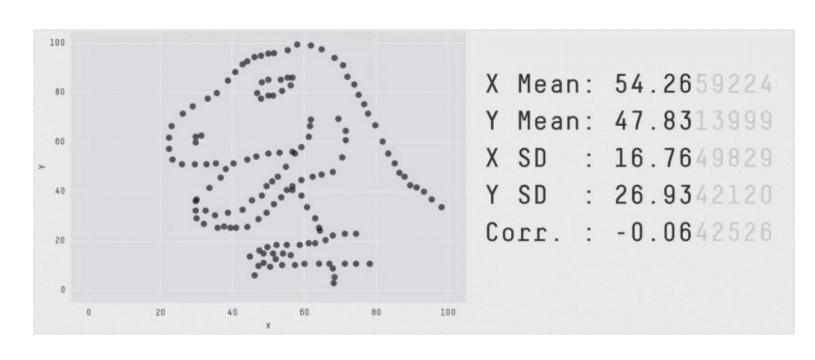
 Our brains are made to process visual information in parallel and pre-attentively

Intuitive communication tool

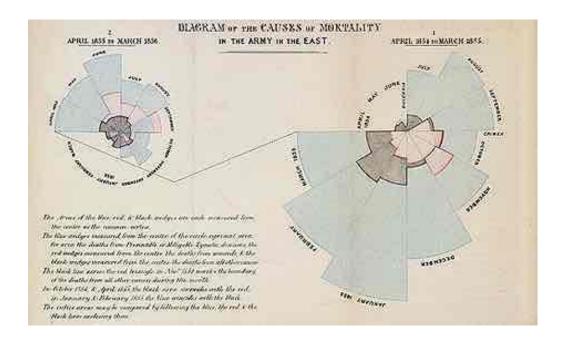
Usage of datavis

- Explore data
- Communicate findings
- Persuasion
- Just for fun

Why not raw data



The invention of visual form



Data types

Categorical -- "keys"

• Singapore, France, Argentina

Ordinal -- categories with intrinsic ordering

Awesome, average, lackluster

Quantitative -- numbers

• -1.5, 3.14

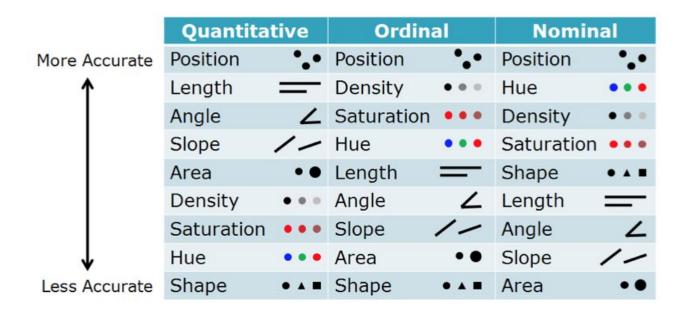
Spatial -- inherently 3D

Maps, physical topologies, etc

Time series

• 2016, 2026, 2036, 2046

Visual Encodings



Color palette

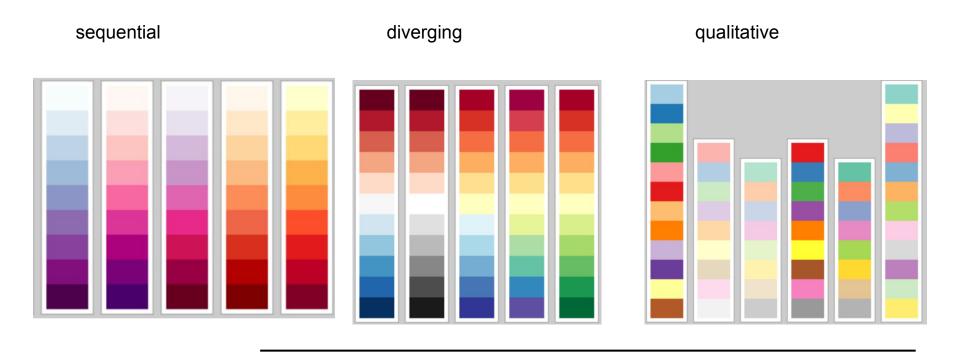
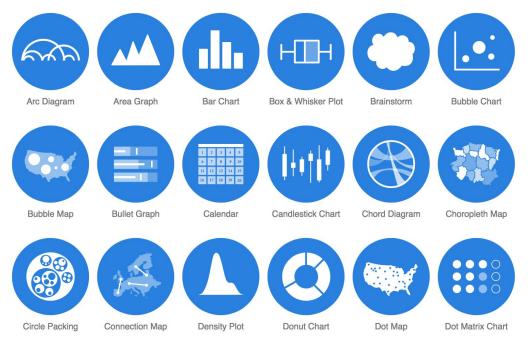


Chart types



And the list goes on..

Note: From Dataviz Catalogue

Choose wisely the visual form

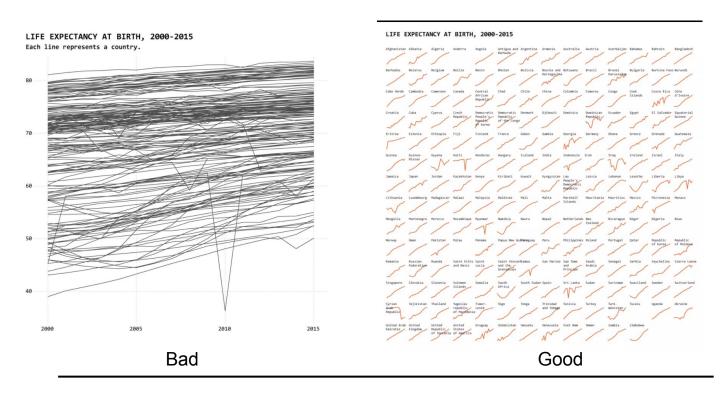
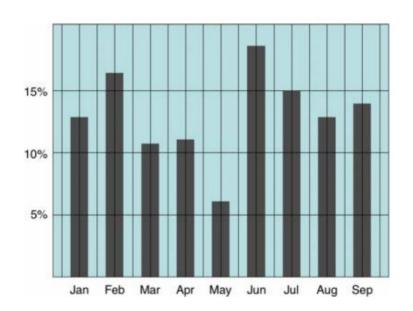


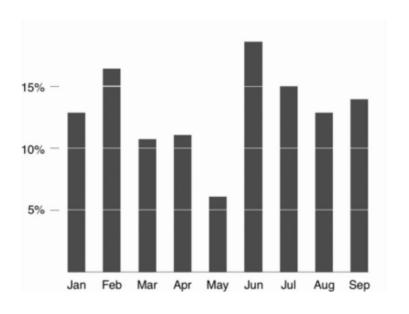
Chart types

Chart Suggestions—A Thought-Starter Column Chart Circular Area Chart Line Chart Column Chart Line Chart Yurioble Width Table or Table with Ber Chart Column Chert Embedded Charts Cyclical Data Many Categor Two Variables Few Categories Few Periods One Variable per locat Over Time Among Items Column Histogram - Data -Single Variable Comparison Two Variables Scatter Chart What would you Line Histogram -Relationship--Distribution Many Data like to show? Bubble Chart :000 Composition Three Variables Changing Over Time 30 Area Chart Variables == Few Periods Many Periods Simple Share Accumulation or Components of Components Only Relative Only Relative of Total Differences Marter Differences Matter Differences Matter Differences Matter Subtraction to Total Stocked 100% Stacked 100% Stocked Area Chart Waterfall Chart Stacked 100% Column Chart Column Chart Column Chart Area Chart with Subcomponents

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Chart junks





Low Data Ink (BAD)

High Data Ink (GOOD)

Storytelling with data

U.S. GUN DEATHS IN PEOPLE KILLED STOLEN YEARS

Storytelling with data: personalized



Thank you

Linkedin: hannahyanhan

Medium: bit.ly/100daysofviz

Twitter: @hannahyan

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