VISUALIZATIONS Cheat Sheet

The Importance of Context

- Narrow your target audience
- Your relationship with audience
- Clear purpose (What you want)
- Communication mechanism
- Desired tone

Gestalt Principles

• Proximity

Objects close together belong to a group

Similarity

Similar objects are related or belong to a group

Enclosure

Objects enclosed together belong to a group

Closure

Like things to be simple & fit in the constructs



Continuity

Seek the smoothest path and create continuity



Connection

Objects connected are a part of a group

Think Like a Designer

Affordances

- Highlight the important stuff
- Eliminate distractions
- Create a clear visual hierarchy of information

Accessibility

- Don't overcomplicate - Text

Aesthetics

Acceptance

Choosing an Effective Visual

91%

O/ Simple text

Just a number or two to communicate



Scatterplot

Relationship between two things



Line (standard line & slopegraph)

For continuous data



Bar

Need zero baseline



Stacked bar

Subcomponent pieces within categories



Stacked Area

Continuous data & subcomponent pieces



Scatterplot with Size

3-dimension data (4D can add colors)



Heat map

For mixing the detail can include in a table

:

Never use:

pie chart, donut chart, 3D, secondary y-axis...

Focus Audience's Attention

Orientation Shape Line length Line width Lin

Intensity

Hue Spatial position
Hue Spatial position

Mot

Motion

Motion

Form an Appropriate Storytelling

How to Write with Style:

- Find a subject you care about.
- Do not ramble, though.
- Keep it simple.
- Have the guts to cut.
- Sound like yourself.
- Say what you meant to say.
- Pity the readers.

Tactics to help ensure that your story is clear:

- Horizontal logic
- Vertical logic
- Reverse storyboarding
- A fresh perspective

Organize a Reasonable Structure

Understand the context:

- who - what - how

Choose an appropriate display Eliminate clutter:

- De-emphasize the chart title.
- Remove chart border and gridlines.
- Push the x and y-axis and labels to the background.
- Remove the variance in colors between the lines.
- Label the lines directly.

Draw attention where audience focus Think like a designer:

- Make the visual accessible with text.
- Align elements to improve aesthetics.

Tell a story

Final Thoughts

- Learn your tools well.
- Iterate and seek feedback.
- Devote time to storytelling with data.
- Seek inspiration through good examples.
- Have fun and find your style.