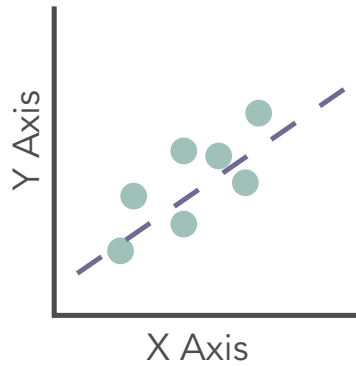


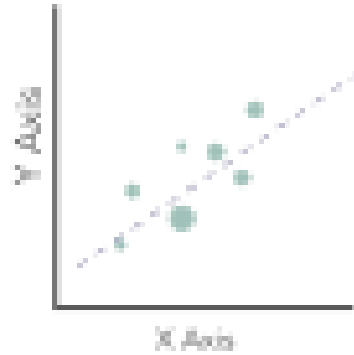
FIGURE RUBRIC (1/2)

Scale & Resolution

GOOD



NOT GOOD



Scale

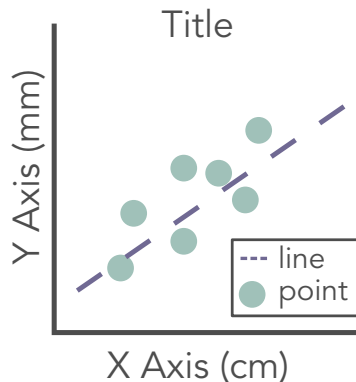
- All elements should be the right size for where they are in the figure
- Readability will be different for a paper, publication, or poster
- Ensure all data, text, and visual elements are consistently sized

Resolution

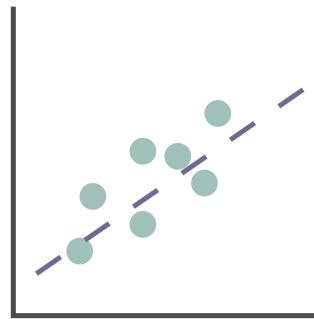
- Save and export all data and completed figures in high-resolution
- Work with lossless formats, such as: SVG, PNG, TIFF, RAW

Units & Labels

GOOD



NOT GOOD



Units

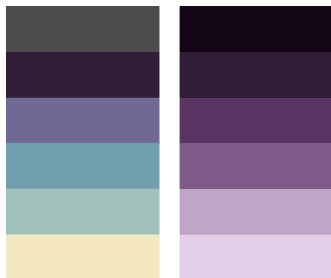
- Every axis needs a unit label, even if the measure is unitless
- If there are two plots side-by-side, make the axis limits consistent

Labels

- All axes need to be labeled (this may not apply for grouped sub-figures)
- Identify figure elements in the legend and/or the caption
- Titles should clarify the take-away message of the figure

Colors

GOOD



NOT GOOD



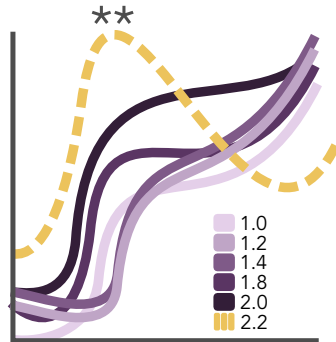
Colors

- Pick a color palette to use throughout the paper/poster/presentation
- Learn the color wheel: split-complementary colors pair well
- Muted colors look more professional; saturated colors draw attention
- Vary color lightness to show changes across an independent variable
- Ensure a color-blind reader can interpret the figure (see Accessibility)

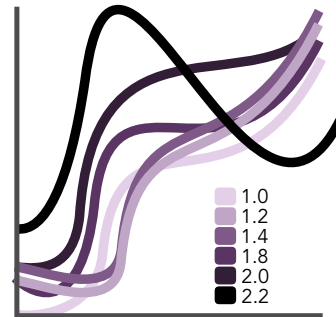
FIGURE RUBRIC (2/2)

Emphasis

GOOD



NOT GOOD

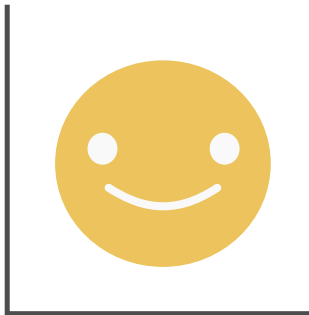


Emphasis

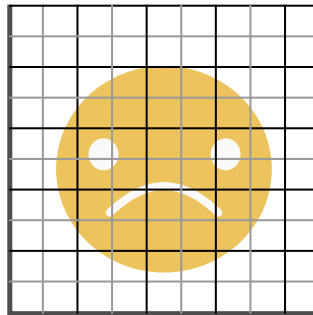
- Visual changes can show the reader what is important in the data
- Use annotations, callouts, highlights, or changes in line style
- Define and use markers (*) for statistical significance
- Have integrity: do not create a trend that isn't already there

Ink:Content

GOOD



NOT GOOD



Ink:Content

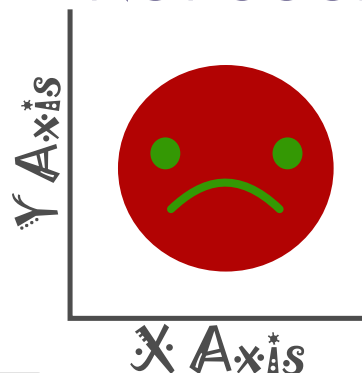
- Minimize the ratio of ink (plotting elements) to content (your data)
- Be merciless when removing "chart junk" such as grid lines
- Anything not essential to understanding the data can be removed

Accessibility

GOOD



NOT GOOD



Accessibility

- Choose fonts without serifs, decoration, or complex ligatures
- Red-green color-blindness is common (1 in 12 men, 1 in 200 women)
- Some submissions require alt text, which is not the same as a caption
- Some submissions require accessible PDF files

a vector graphic of a yellow smiley with white eyes and upturned mouth