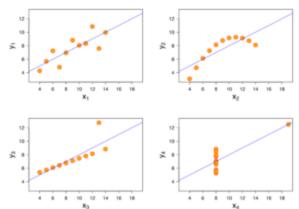
What you'll learn to do: Use a correlation coefficient to describe the direction and strength of a linear relationship. Recognize its limitations as a measure of the relationship between two quantitative variables.



Scatterplots are an excellent way to visually inspect the data, but to further investigate the relationship, it would help to quantify some metrics about the relationship. In particular, we are interested in:

- Direction: Does the response variable increase with the dependent variable? Or does the response variable decrease with the dependent variable?
- Strength: Does the scatterplot cluster tightly around a line?
- Form: Is the scatterplot evenly clustered around the line or are there regions where the scatter is more spread out? Does the shape of the scatterplot seem linear or curvilinear?

## Licenses and Attributions

CC licensed content, Shared previously

 Concepts in Statistics. Provided by: Open Learning Initiative. Located at: http://oli.cmu.edu. License: <u>CC BY: Attribution</u>

</div