Correlations

Introduction to Quantitative Ecology
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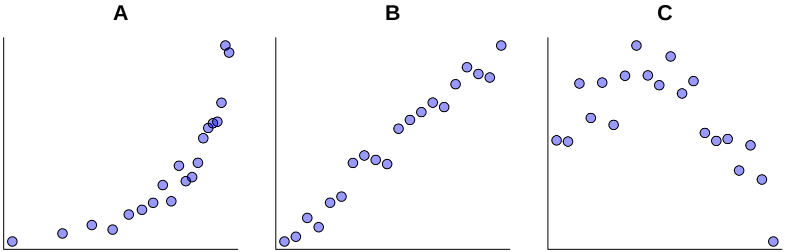
Group evaluations

1. We would *not* use the Spearman's rank test to calculate a correlation coefficient - which one?



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Group evaluations

2. For her PhD, Eugene is studying the effects of annual temperature on American robin reproductive success (number of eggs hatched). What is the *dependent* variable?

A) American robin
B) Eugene
C) Temperature
D) Number of eggs

Group evaluations

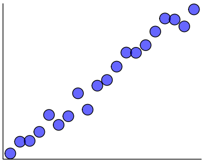
3. What is the most likely Pearson's correlation coefficient (r) for this relationship?

A) 0.90

B) 0.09

C) -0.9

D) -0.09



Group evaluations

4. What is the slope in this equation of a straight line?

$$y = mx + c$$

A) y
B) m
C) x
D) c

Group evaluations

5. Which of the following is *polynomial* relationship?

A) $y = ax + c$

B) $y = ax + bx^2 + c$

C) $y = log(ax) + c$

D) $y = c$

Correlations

- What are examples of correlations?
- Why would we be interested in correlations?