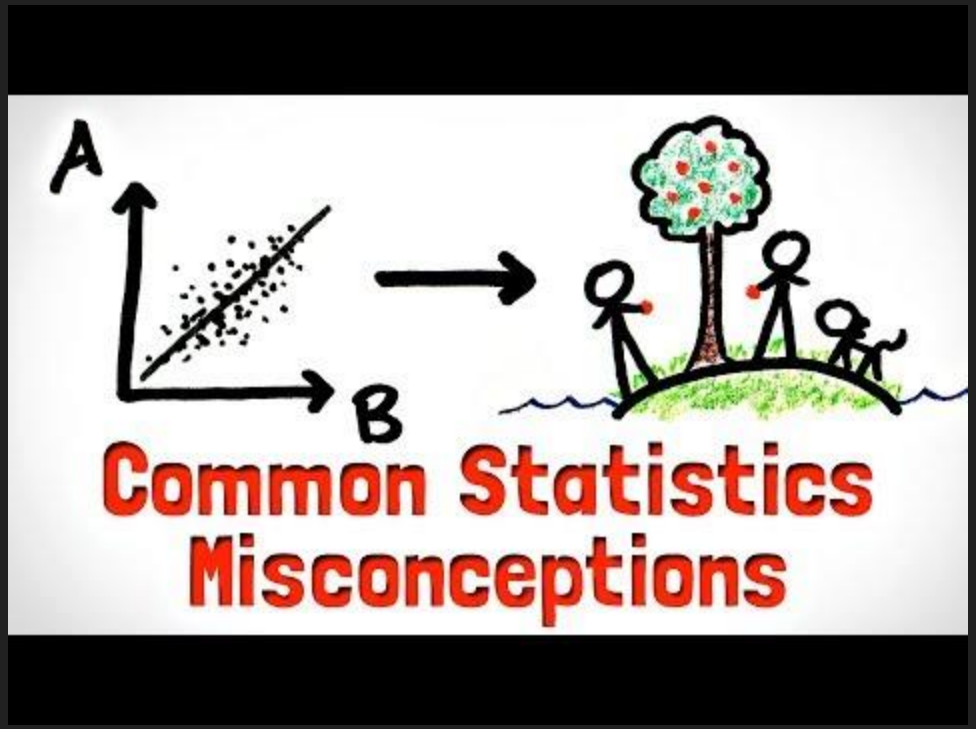
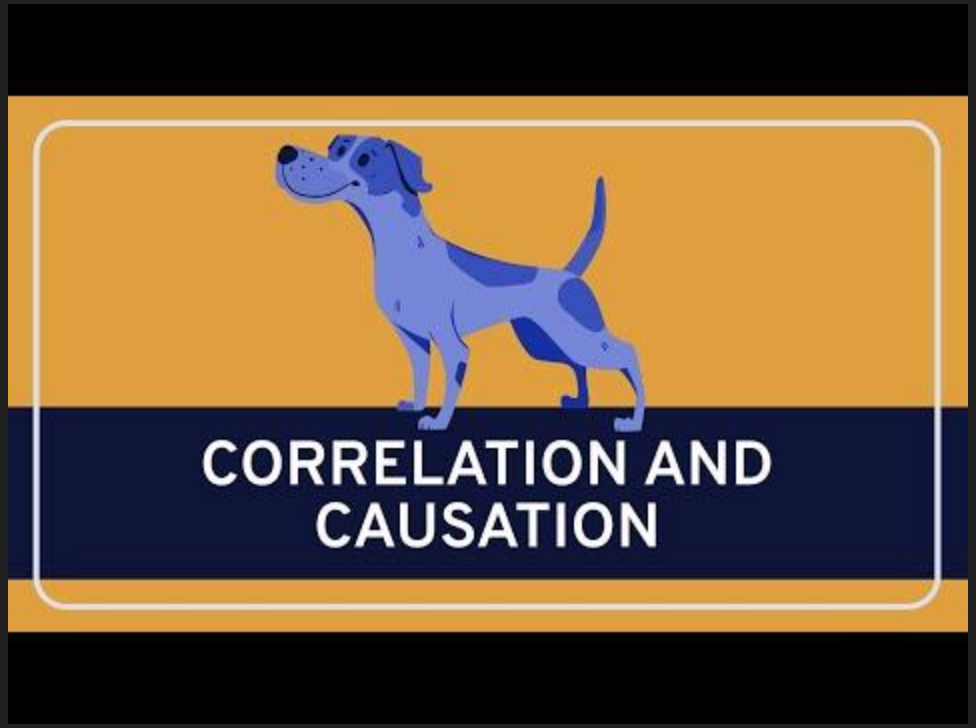
Analyzing Results

lesson 8

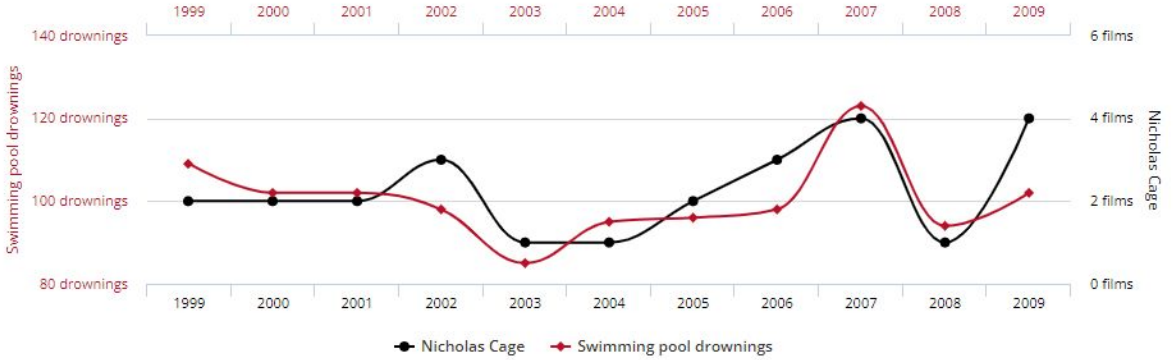

A
B
Common Statistics
Misconceptions


CORRELATION AND
CAUSATION

Analysis & Conclusion

Number of people who drowned by falling into a pool
correlates with
Films Nicolas Cage appeared in

Correlation: 66.6% (r=0.666004)

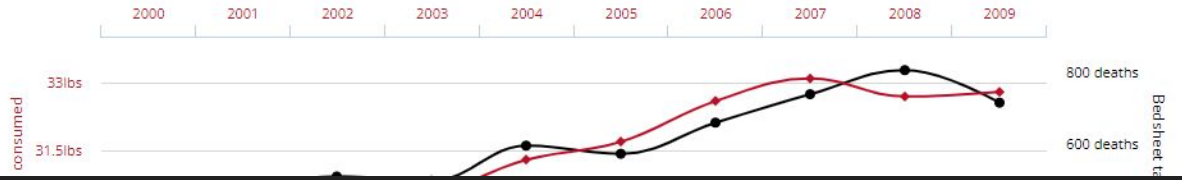


tylervigen.com

Data sources: Centers for Disease Control & Prevention and Internet Movie Database

Per capita cheese consumption
correlates with
Number of people who died by becoming tangled in their bedsheets

Correlation: 94.71% (r=0.947091)



1. Thing A caused Thing B (causality)
2. Thing B caused Thing A (reversed causality)
3. Thing A causes Thing B which then makes Thing A worse (bidirectional causality)
4. Thing A causes Thing X causes Thing Y which ends up causing Thing B (indirect causality)
5. Some other Thing C is causing both A and B (common cause)
6. It's due to chance (spurious or coincidental)