F test for Significance of Regression

Dale Easley
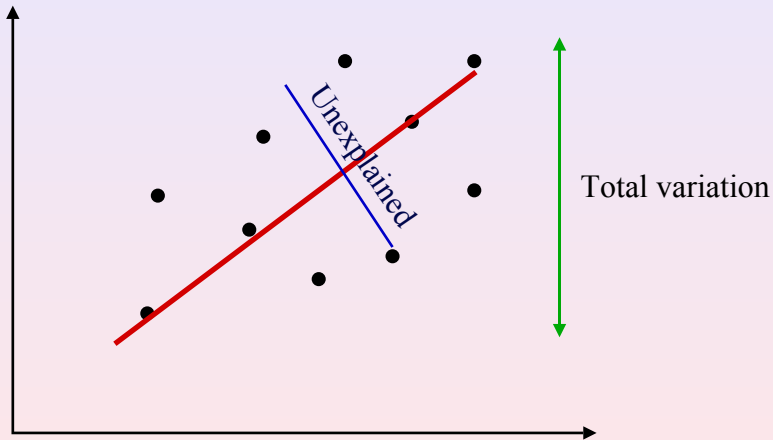University of Dubuque

What's the difference?
Your purpose

- Regression has a clear independent variable

- We are trying to establish a cause-effect relationship.

Slicing mussel shells

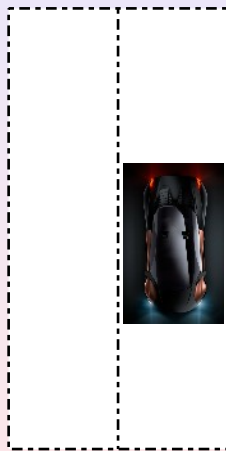# F looks at the ratio of variances, explained to unexplained
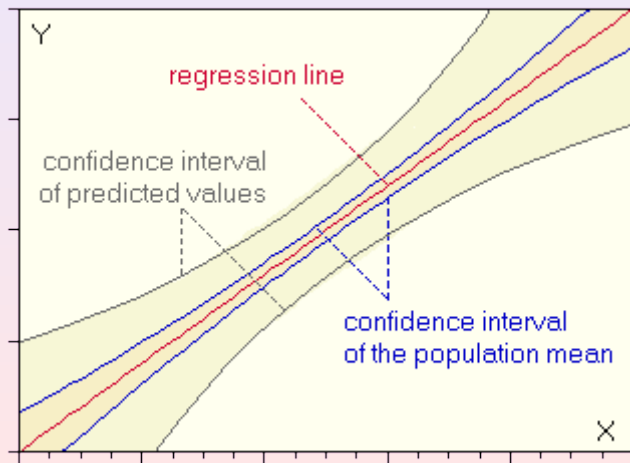
Worked Example 5.3a-c

X=distance from road
Y= traffic noise

x	y
20	90
40	90
60	86
80	81
100	82
120	75
140	74

See Worked Example 5.3D

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