

Rotate Data Points about Their Centroid

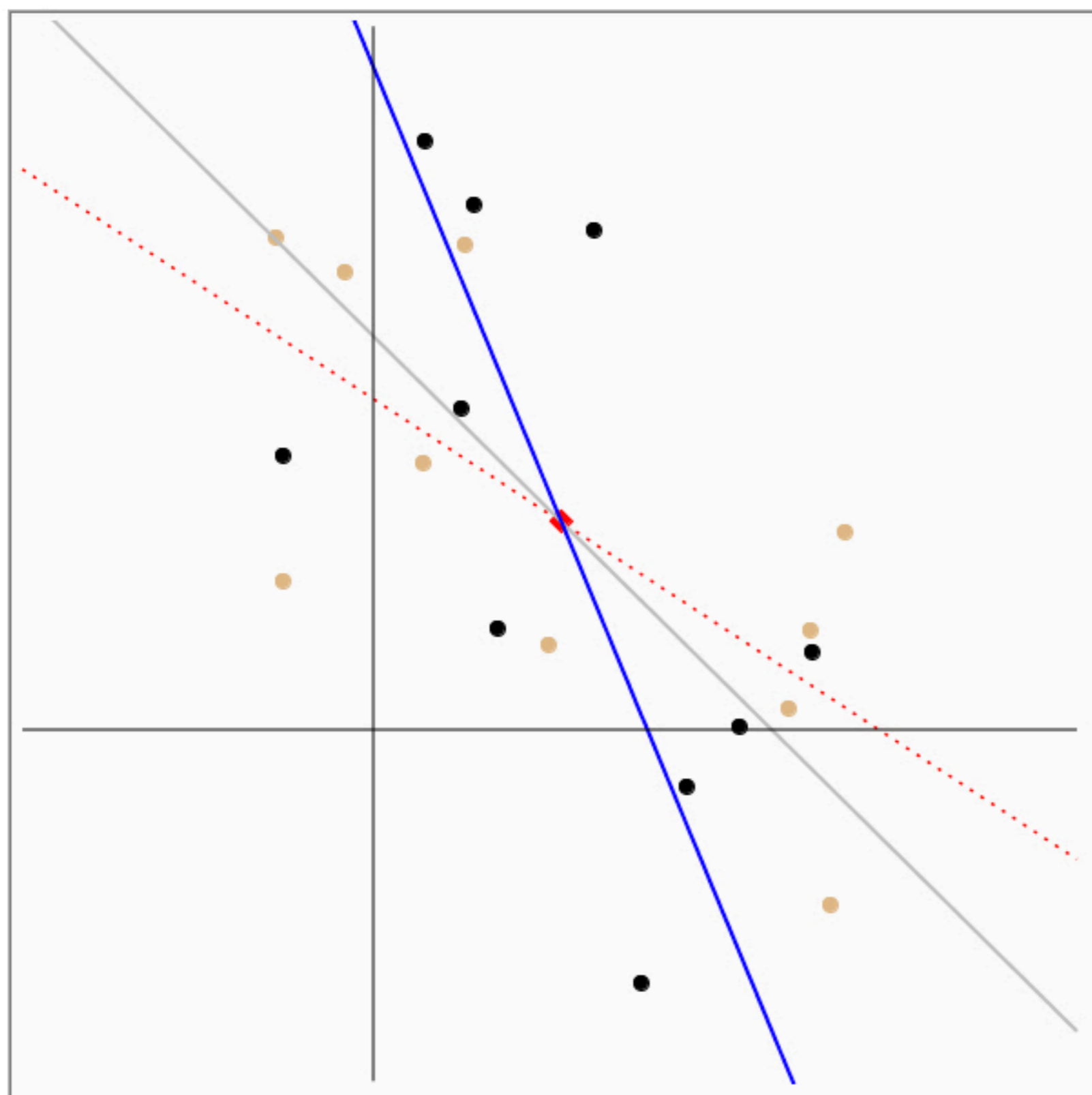
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First,

Adjust the dispersion of the random points: , then

generate a set of points by clicking either

or



Set graph zoom factor: In Out

Graph: Original data regression line --

$$f(x) = 4.697 - 0.6543 x$$

Graph: Vertical regression line —

$$f(x) = 5.588 - 0.9878 x$$

Graph: Orthogonal regression line —

$$f(x) = -2.419 x + 9.407$$



Turn the dial to rotate the points by θ about their centroid.

$$\theta = 0.4425$$

$$R^2 = 0.3279$$

$$Q^2 = 0.8255$$

Each turn of the dial recomputes both R^2 and Q^2 .