# CORRELATION

(Pearson's R)

value of $x_i$ — mean of x — value of $y_i$ — mean of y

$$Cor(X, Y) = \frac{\sum \left(X_i - \bar{X}\right)\left(y_i - \bar{y}\right)}{\sqrt{\sum \left(X_i - \bar{X}\right)^2}\sqrt{\sum \left(y_i - \bar{y}\right)^2}}$$

Ranges between -1.0 and +1.0. The closer to 0.0 the less linear dependence between variables.

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