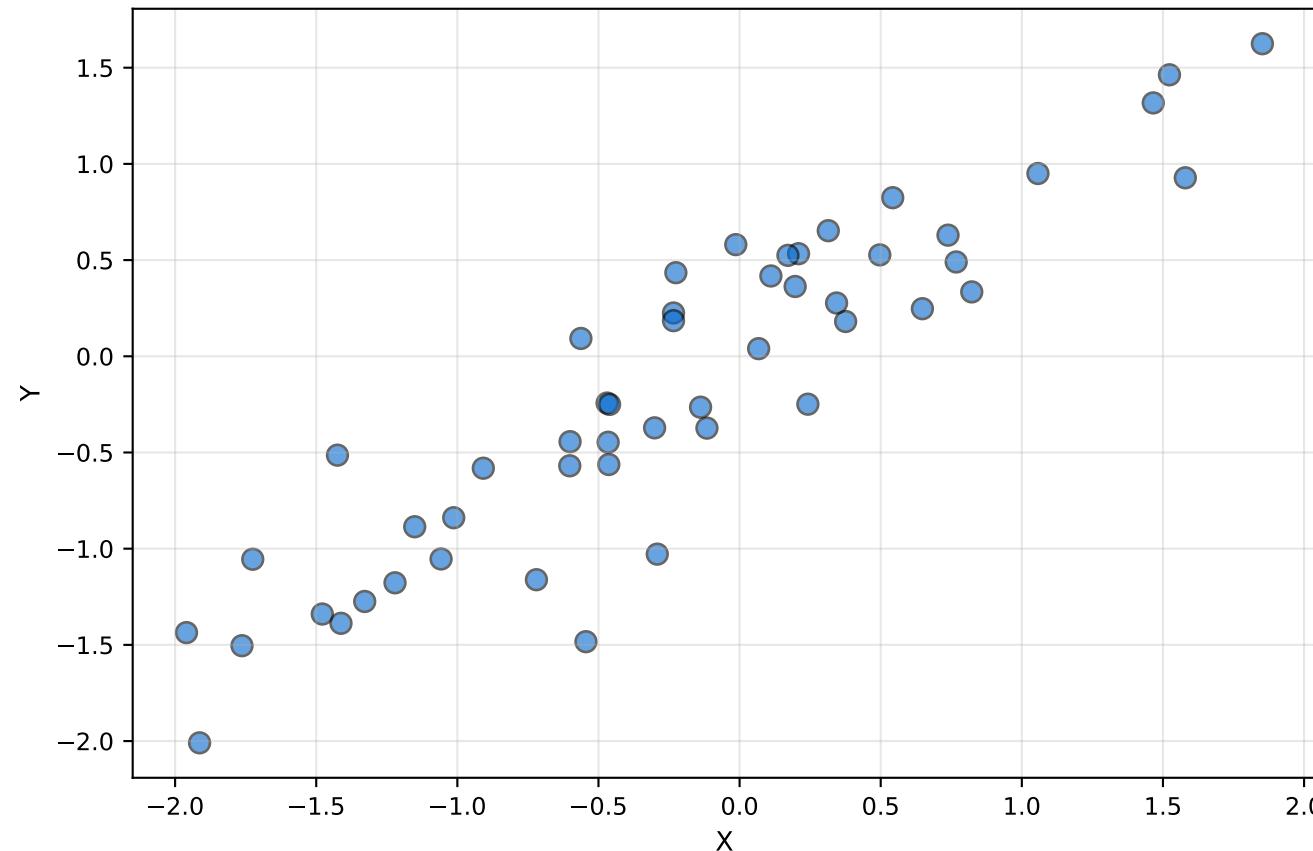
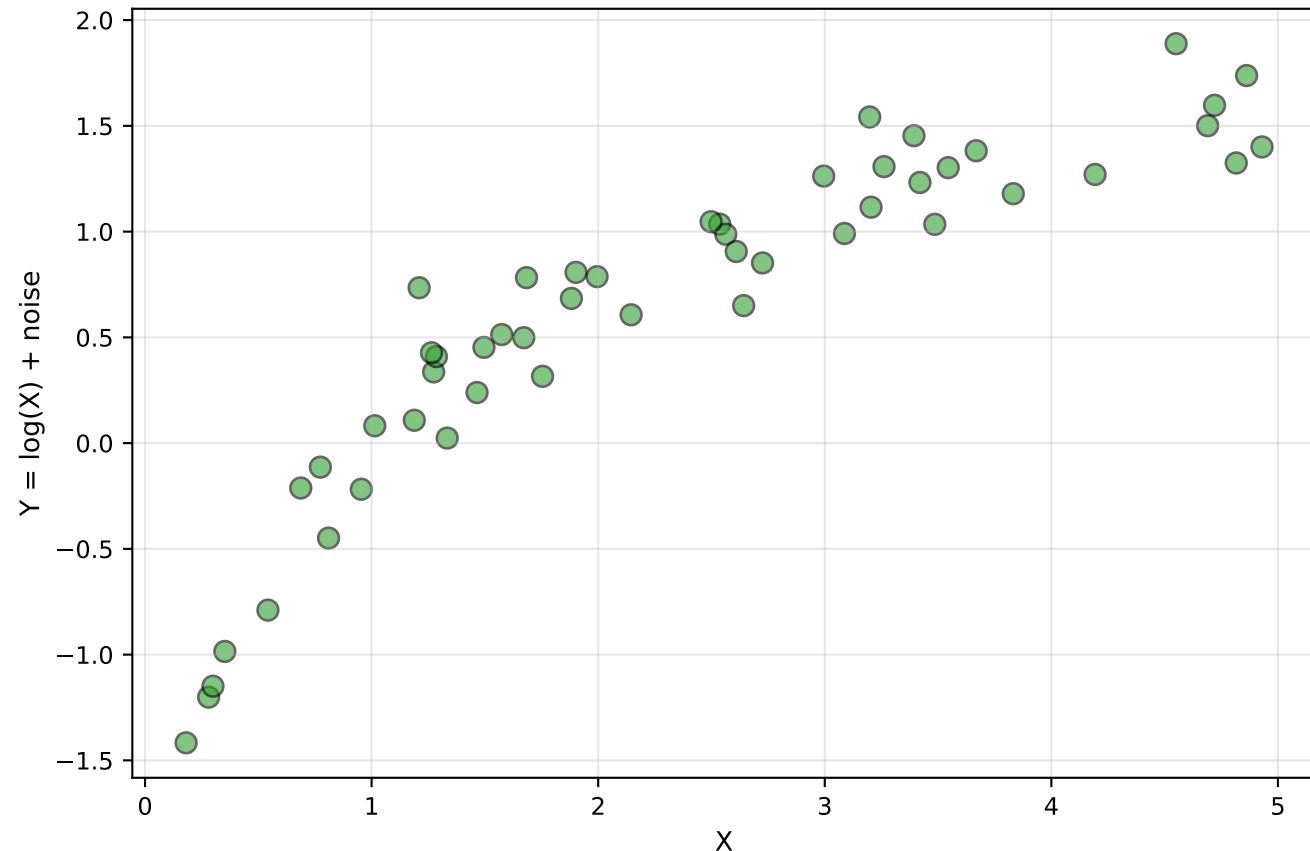


Pearson vs Spearman Correlation

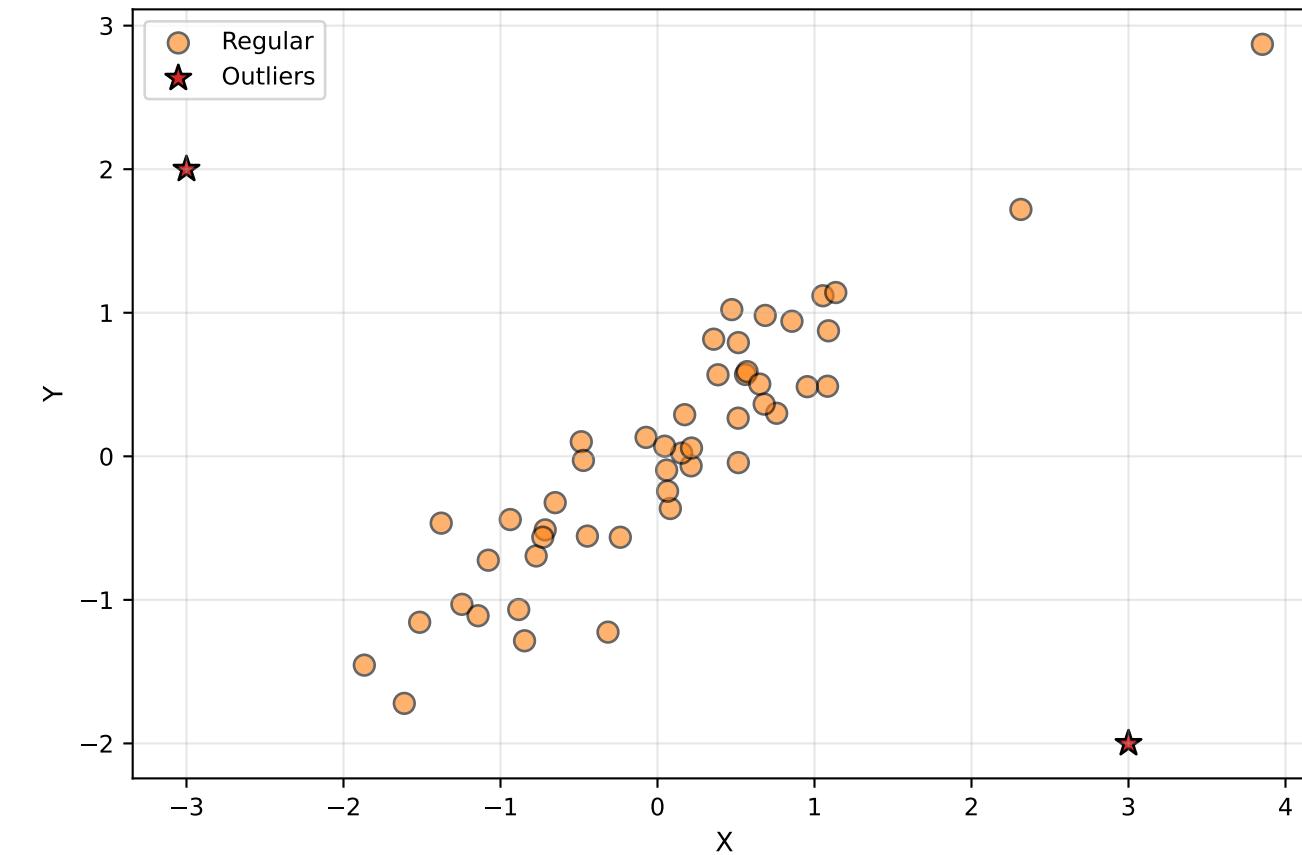
Linear: Pearson = 0.91, Spearman = 0.91



Monotonic: Pearson = 0.90, Spearman = 0.95



With Outliers: Pearson = 0.50, Spearman = 0.69



When to Use Each

Pearson:

- Measures LINEAR relationship
- Assumes normal distribution
- Sensitive to outliers
- Use: regression, portfolio optimization

Spearman:

- Measures MONOTONIC relationship
- No distribution assumption
- Robust to outliers

`df.corr(method="pearson")` vs `df.corr(method="spearman")`