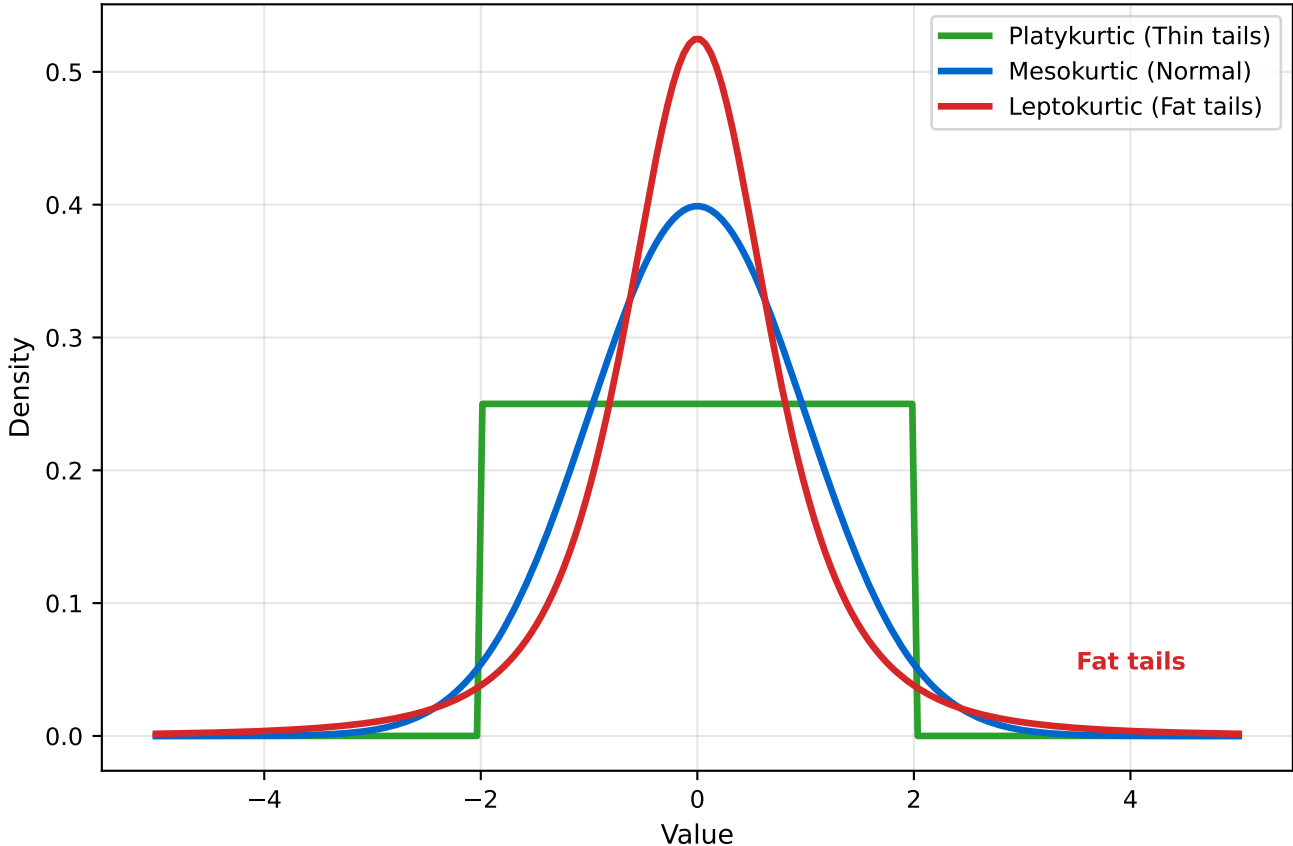
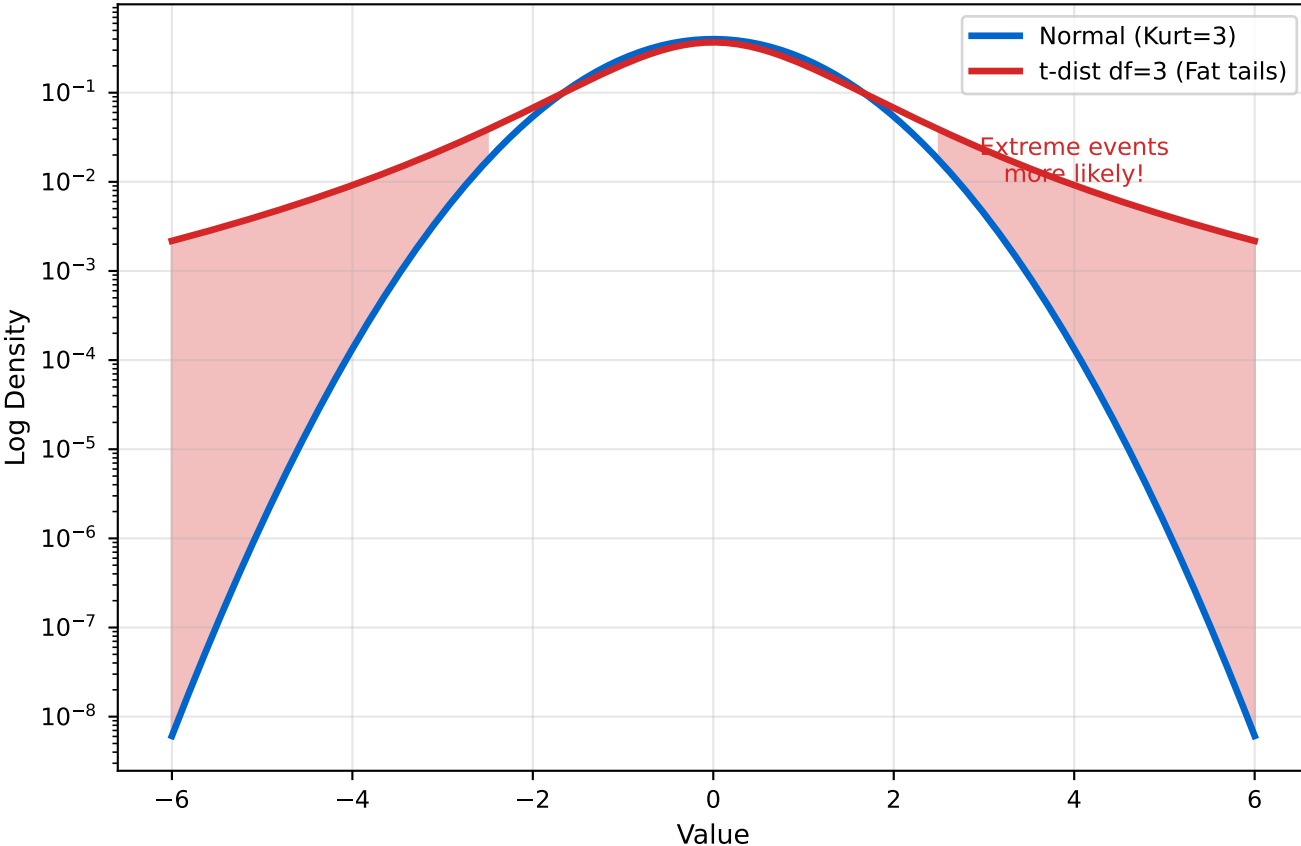


Kurtosis: Measuring Tail Heaviness

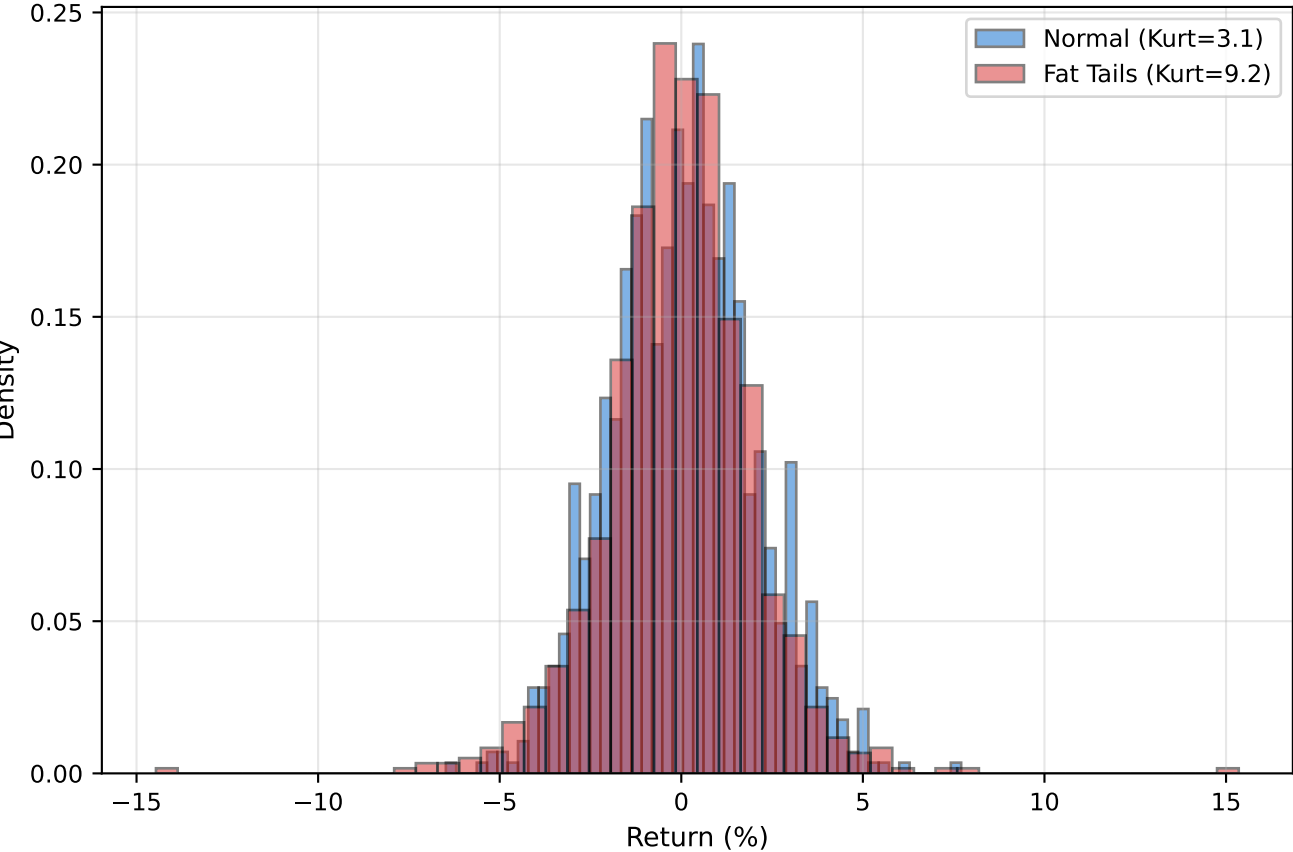
Types of Kurtosis



Tail Comparison (Log Scale)



Stock Returns: Fat Tails Are Real



Kurtosis Interpretation

- Kurtosis = 3** Mesokurtic
Normal distribution (baseline)
- Kurtosis < 3** Platykurtic
Thin tails, fewer outliers
- Kurtosis > 3** Leptokurtic
Fat tails, more extreme events

WARNING: Stock returns typically have kurtosis > 10

Extreme moves happen more often than Normal assumes!