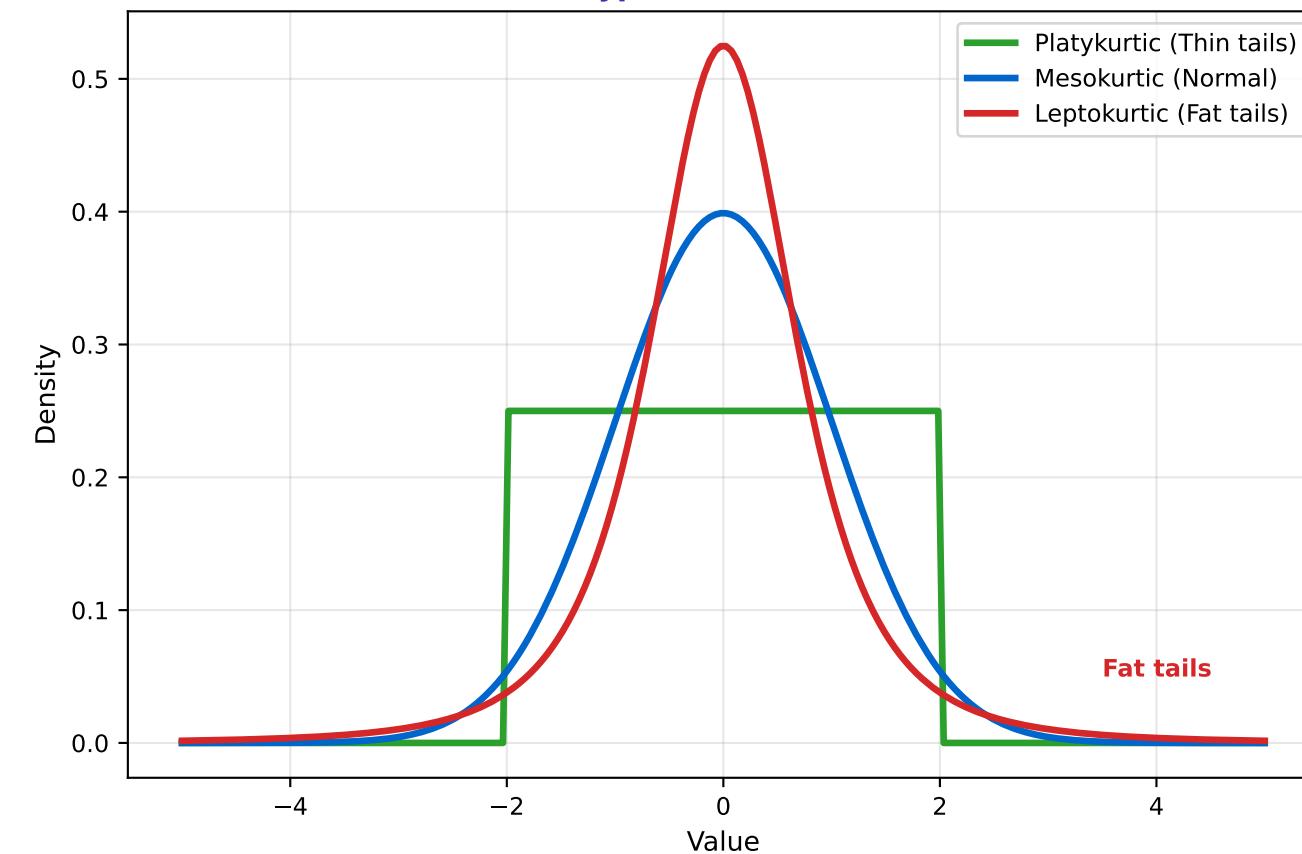
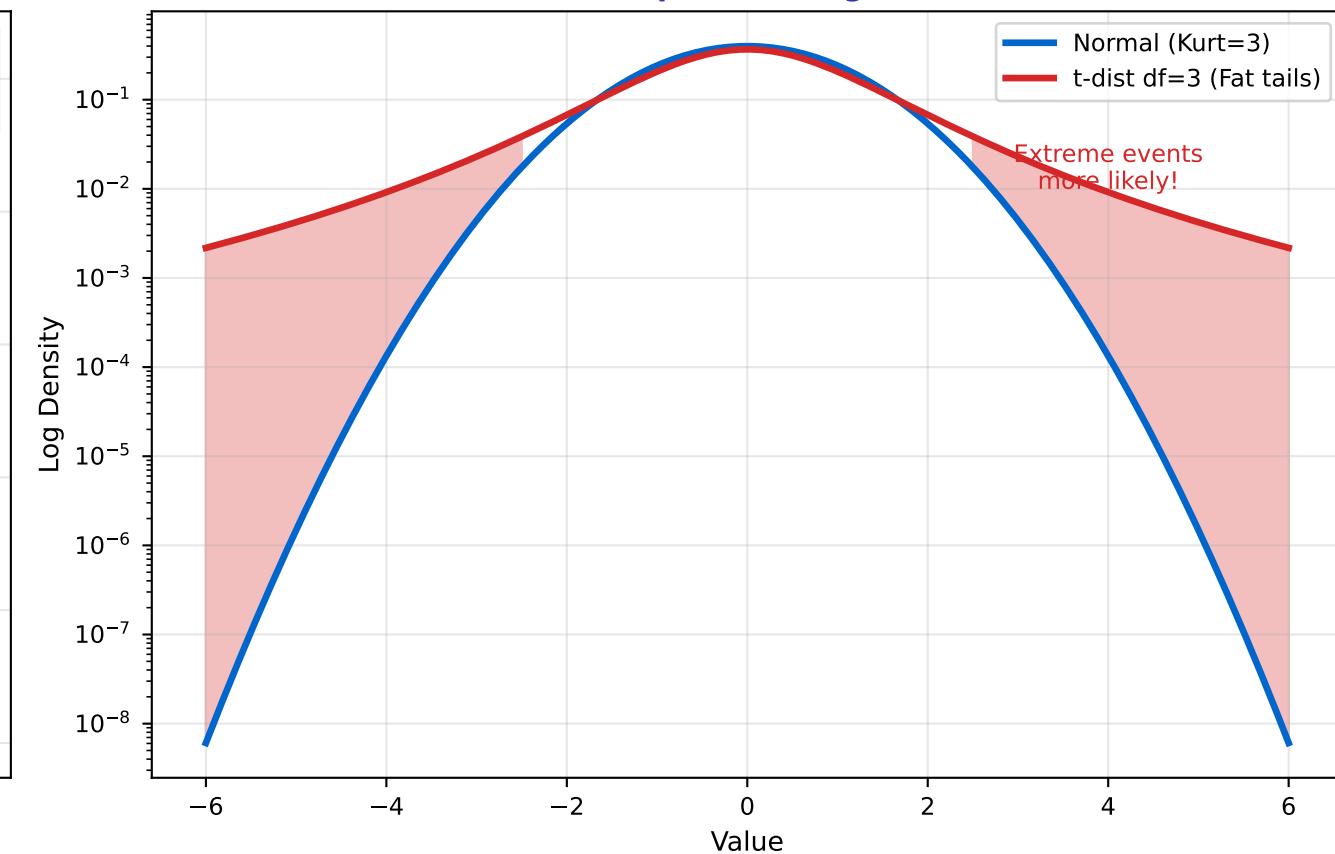


# Kurtosis: Measuring Tail Heaviness

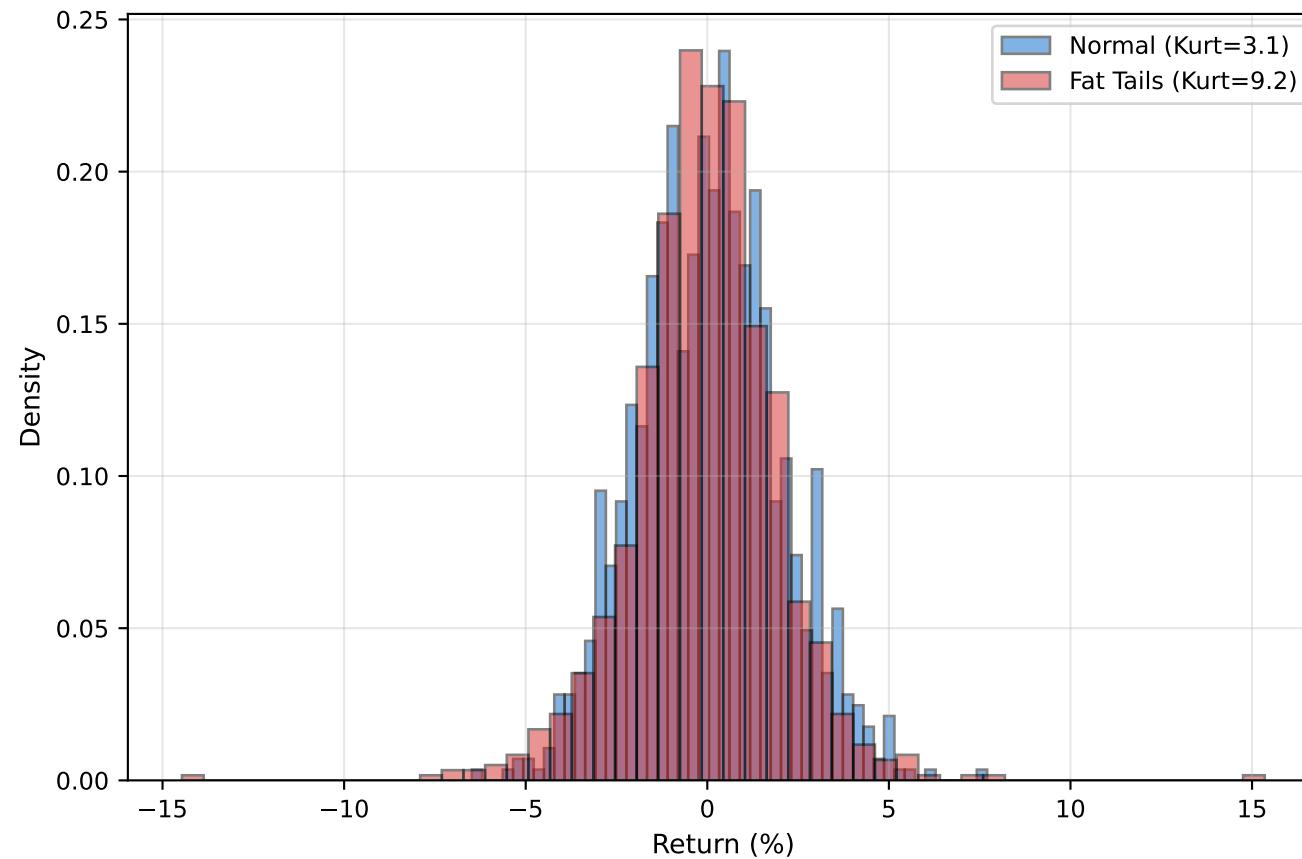
## Types of Kurtosis



## 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!