

Bayesian Methods

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All Biases Equally Likely

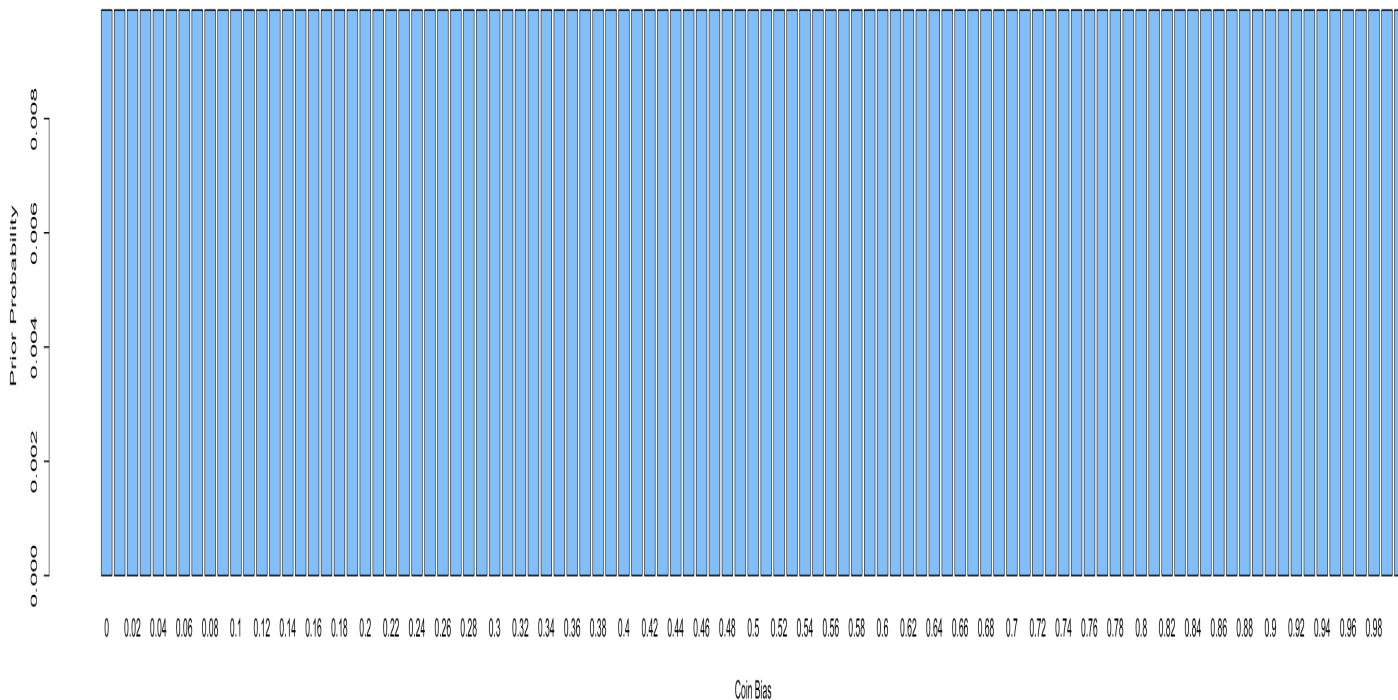
$$P(M_{0.50}|D_{13}) = \frac{P(\text{Observed Heads} | \text{bias} = x)P(\text{bias} = x)}{P(\text{Observed Heads})}$$

Number of bins: ▼

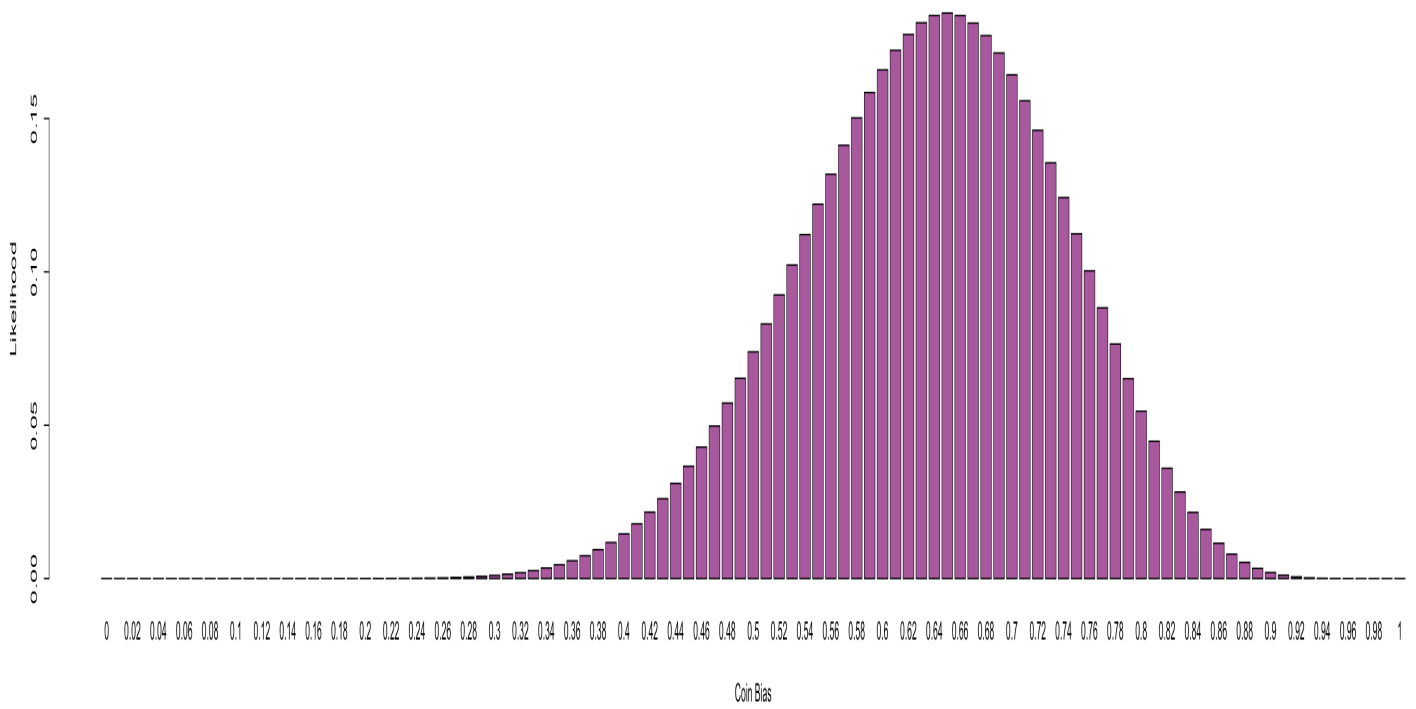
Total Flips: 200

Heads: 200

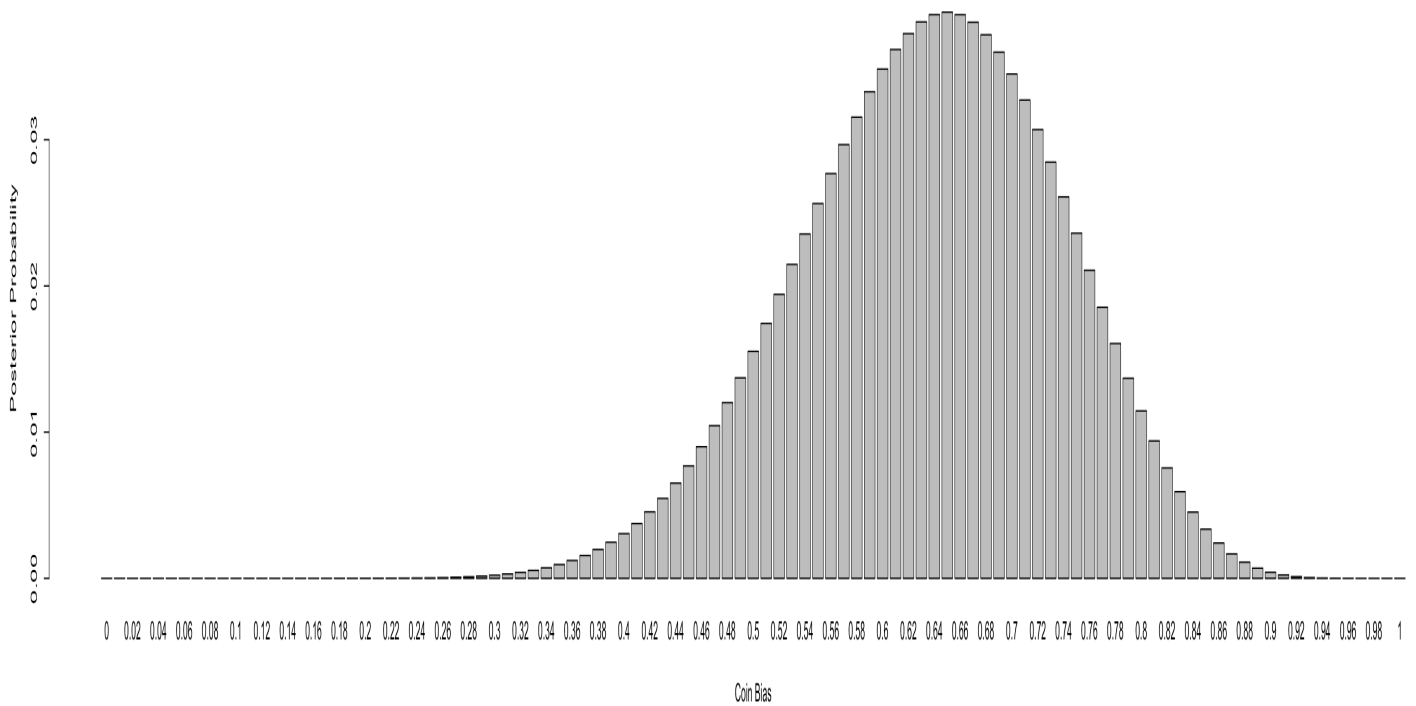
Prior Probability Density: All Biases Equally Likely



Likelihood vs Coin Bias



Posterior Probability Density



Marginal Likelihood (Probability of Selected Heads) = 0.0471475719000787