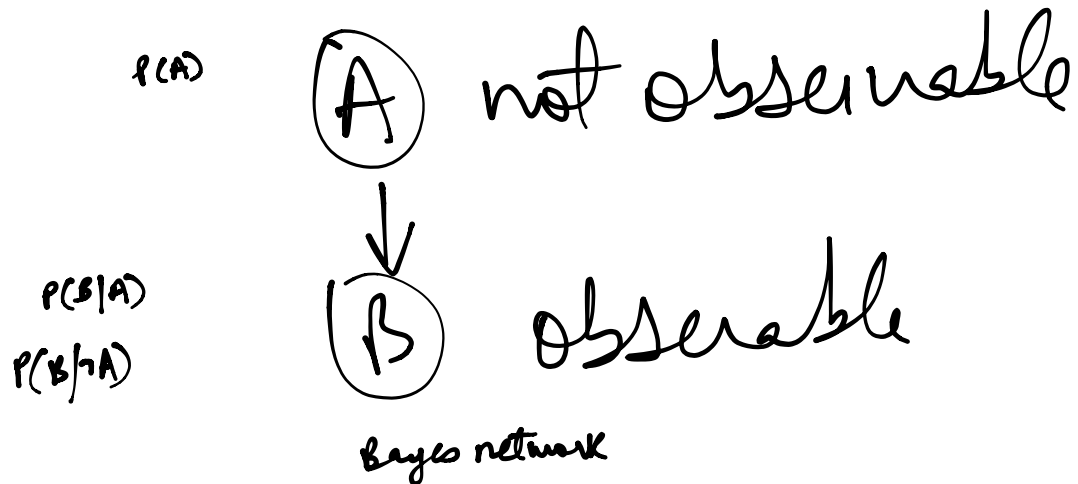


## Bayes Rule

$$\underbrace{P(A|B)}_{\text{posterior}} = \frac{\overbrace{P(B|A)}^{\text{likelihood}} \cdot \underbrace{P(A)}_{\text{Prior}}}{\underbrace{P(B)}_{\text{marginal likelihood}}}$$



Diagnostic Reasoning

$$P(A|B)$$

$$P(A|\neg B)$$