- Class Prior Probability

$$\frac{\colorbox{blue!20}{$p(D|\theta)$}\,\colorbox{red!20}{$p(\theta)$}}{\colorbox{green!20}{$p(D)$}} = \colorbox{yellow!20}{$p(\theta|D)$}$$

- Class Prior Probability
- Likelihood

$$\frac{p(D|\theta)\; p(\theta)}{p(D)} = p(\theta|D)$$

- Class Prior Probability
- Likelihood

$$\frac{p(D|\theta)\, p(\theta)}{p(D)} = p(\theta|D)$$

- Predictor Prior Probability

- Class Prior Probability
- Likelihood

$$\frac{p(D|\theta)\ p(\theta)}{p(D)} = p(\theta|D)$$

- Predictor Prior Probability
- Posterior probability