

ナイーブなベイズ(補足)

計算の一例

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| Color | Shape | Size | Category |
|-------|-------|-------|----------|
| red | • | big | + |
| blue | △ | small | + |
| red | □ | small | + |
| red | △ | big | - |
| blue | • | small | - |
| red | △ | small | ? |

$$\frac{P(\text{red}|+) * P(\Delta|+) * P(\text{small}|+) * P(+)}{P(\text{red}|-) * P(\Delta|-) * P(\text{small}|-) * P(-)} = \frac{P(+)}{P(-)}$$

$$= \frac{2/3 * 1/3 * 2/3 * 3/5}{1/2 * 1/2 * 1/2 * 2/5} = 1.77$$