

Category

- just plain boring
- entirely predictable and lacks energy.
- no surprises and very few laughs.
- + very powerful
- + the most fun film of summer
- ? predictable with no fun. → Test.

$$P(-) = 3/5$$

$$P(+) = 2/5$$

$$P(W|C) = \frac{\text{count}(W, C) + 1}{\text{count}(C) + 1}$$

$$P(\text{Predictable} | -) = \frac{(1 + 1)}{(14 + 20)} = \frac{2}{34} = \frac{1}{17}$$

$$P(\text{With} | -) = \frac{(0 + 1)}{(14 + 20)} = \frac{1}{34}$$

$$P(\text{no} | -) = \frac{(1 + 1)}{(14 + 20)} = \frac{2}{34} = \frac{1}{17}$$

$$P(\text{fun} | -) = \frac{(0 + 1)}{(14 + 20)} = \frac{1}{34}$$

$$P(\text{Predictable} | +) = \frac{(0 + 1)}{(8 + 20)} = \frac{1}{28}$$

$$P(\text{With} | +) = \frac{(0 + 1)}{(8 + 20)} = \frac{1}{28}$$

$$P(\text{no} | +) = \frac{(0 + 1)}{(8 + 20)} = \frac{1}{28}$$

$$P(\text{fun} | +) = \frac{(1 + 1)}{(8 + 20)} = \frac{2}{28} = \frac{1}{14}$$

$$P(- | \text{Test}) \propto \left(\frac{3}{5}\right) \times \left(\frac{1}{34}\right) \times \left(\frac{2}{34}\right) \times \left(\frac{1}{34}\right) \times \left(\frac{1}{17}\right) = \frac{6}{3340840}$$

$$P(+ | \text{Test}) \propto \left(\frac{2}{5}\right) \times \left(\frac{1}{28}\right) \times \left(\frac{1}{28}\right) \times \left(\frac{1}{28}\right) \times \left(\frac{1}{14}\right) = \frac{2}{1536640}$$