

	<u>class</u>	<u>Text</u>
train	-	just Plain boring
	-	entirely Predictable and lacks energy
	-	no surprises and very few laughs
	+	very Powerful
	+	the most fun film of the summer
test =>	-	Predictable with no fun

$$P(-) = 3/5 \quad P(+) = 2/5$$

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

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

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

$$P(\text{no}|-) = (0+1)/(14+20) = 1/17$$

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

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

$$P(\text{with}+) = (0+1)/(8+20) = 1/28$$

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

$$P(\text{fun}+) = (1+1)/(8+20) = 1/14$$

$$P(-|Test) = (3/5) (1/34)^2 (1/17)^2 = 0.0000018$$

$$P(+|Test) = (2/5) (1/14) (1/28)^3 = 0.0000013$$

$$P(-|Test) > P(+|Test)$$

$\therefore$  Category of test will be negative (-)