Example

	Cat	Documents
Training	-	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

```
    V -ve = [Just, plain, boring, entirely, predictable, and, lacks, energy, no, surprises, very, few, laughs]
    V +ve = [very, powerful, the, most, fun, film, of, summer]
```

```
V = [Just, plain, boring, entirely, predictable,
and, lacks, energy, no, surprises,
very, few, laughs, powerful, the,
most, fun, film, of, summer]
```

Example

	Cat	Documents
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Posterior

$$P(-)P(S|-) = \frac{3}{5} \times \frac{2 \times 2 \times 1}{34^3} = 6.1 \times 10^{-5}$$
$$P(+)P(S|+) = \frac{2}{5} \times \frac{1 \times 1 \times 2}{29^3} = 3.2 \times 10^{-5}$$

Priors

$$P(-) = \frac{3}{5}$$
 $P(+) = \frac{2}{5}$

Likelihood

$$P(\text{``predictable''}|-) = \frac{1+1}{14+20} \qquad P(\text{``predictable''}|+) = \frac{0+1}{9+20}$$

$$P(\text{``no''}|-) = \frac{1+1}{14+20} \qquad P(\text{``no''}|+) = \frac{0+1}{9+20}$$

$$P(\text{``fun''}|-) = \frac{0+1}{14+20} \qquad P(\text{``fun''}|+) = \frac{1+1}{9+20}$$