```
\hat{w} =_{w \in V} P(w|x)
\hat{w} =_{w \in V} P(x|w)P(w)
(2)
      \hat{w} = P(p|py)P(happy|am)
w = P(
(3)
?
?
?
william
Tought
new
Sony
TV
last
week
It
broke
to-day
william
fhink
David
went
hol-
i-day
?
              Opinionated

\hat{c} =_{c_i \in C} P(c_i \mid T) 

(4) 

T 

\hat{c}

P(c_i \mid T) = \frac{P(T \mid c_i)P(c_i)}{P(T)}
(5)
\hat{c} =_{c_i \in C} P(T \mid c_i) P(c_i)
(6)
```