

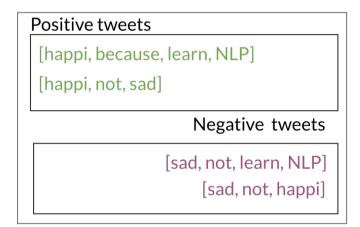
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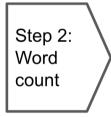
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Training naïve Bayes

To train your naïve Bayes classifier, you have to perform the following steps:

- 1) Get or annotate a dataset with positive and negative tweets
- 2) Preprocess the tweets: process_tweet(tweet) → [w1, w2, w3, ...]:
 - Lowercase
 - Remove punctuation, urls, names
 - Remove stop words
 - Stemming
 - Tokenize sentences
- 3) Compute freq(w, class):





word	Pos	Neg
happi	2	1
because	1	0
learn	1	1
NLP	1	1
sad	1	2
not	1	2
N _{class}	7	7

freq(w, class)

4) Get P(w|pos), P(w|neg)

You can use the table above to compute the probabilities.

5) Get $\lambda(w)$

$$\lambda(w) = \log rac{P(\mathrm{w}|\mathrm{pos})}{P(\mathrm{w}|\mathrm{neg})}$$

6) Compute $logprior = \log(P(pos)/P(neg))$

 $ext{logprior} = \log rac{D_{pos}}{D_{neg}}$, where D_{pos} and D_{neg} correspond to the number of positive and negative documents respectively.

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