Here the SVM classifier is expected to find a hyper-plane to separate testing examples as posi- tive and negative. Wu et al. (2004) extend the basic SVM to a probabilistic version. Its goal is to estimate

Name	Description
Position	1/sentence no.
Doc_First	Whether it is the first sentence of a document
Para_First	Whether it is the first sentence of a paragraph
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where *A* and *B* are estimated by minimizing the negative log-likelihood function using training data and their decision values *f*. Then *p* is ob- $_i$

$y_i\,(w^T\varphi(x_i)+b)\geq 1-\xi_i$

aaa	bbb
2.2	2.3
3.4	3.5
4.6	4.1
5.3	53.3
6.5	6.4