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Training a CBOW Model: Cost Function

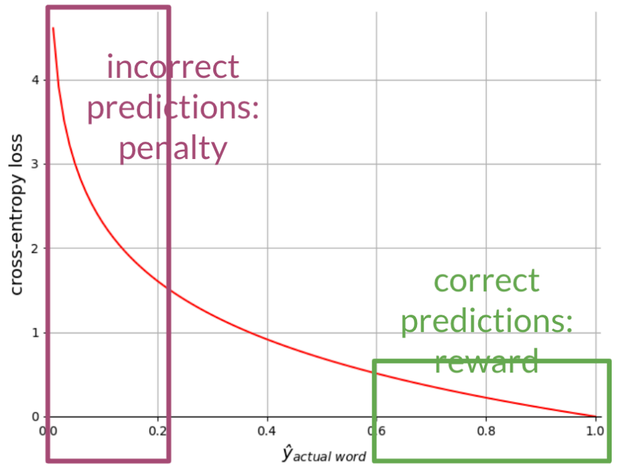
The cost function for the CBOW model is a cross-entropy loss defined as:

$$J = -\sum_{k=1}^{V} y_k \log \hat{y}_k$$

Here is an example where you use the equation above.

$J = -\log \hat{y}_{\text{actual word}}$

y		$\hat{y}$	
0	am	0.96	
0	because	0.01	
1	happy	0.01	→ J = 4.61
0	I	0.01	
0	learning	0.01	



Why is the cost 4.61 in the example above?