$$L_i = -\log\left(\frac{e^{s_{y_i}}}{\sum_j e^{s_j}}\right)$$

unnormalized probabilities

	cat			
cat	**3.2**		**24.5**	
car	5.1	exp	164.0	normalize
frog	-1.7		0.18	

probabilities: **0.13**, 0.87, 0.00

L_i = -log(0.13) = **0.89**

unnormalized log probabilities