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

unnormalized probabilities

	unnormalized log probabilities		unnormalized probabilities		probabilities
cat	**3.2**		**24.5**		**0.13**
car	5.1	exp	164.0	normalize	0.87
frog	-1.7		0.18		0.00