Loss Function

O Structured SVM:

$$S = f(x_i, \omega) = W x_i$$

Softmax Function
$$2i - \ln \frac{e^{Syz}}{\sum e^{Sy}}$$

对野样本门

$$\frac{1}{2i} = -\ln Pyi \qquad \text{ If } Pyi = \frac{e^{Syi}}{\sum_{j=1}^{S} e^{Sj}}$$

神经

$$= \frac{1}{-py_0} \cdot \frac{e^{Syi}}{\Sigma e^{Sj}} \cdot \frac{\Sigma e^{Sj} e^{Syi}}{\Sigma e^{Sj}}$$

$$=\frac{\partial L}{\partial S}$$

$$\frac{\partial S_j}{\partial W_j} = X_i \quad (S_i = X_i W_j)$$

