

## Multi-class classification

# Trying a softmax classifier

### Understanding softmax

$$\frac{2}{2} \text{ II} = \begin{bmatrix} c \\ 2 \\ -1 \\ -1 \end{bmatrix} \qquad t = \begin{bmatrix} e^{t} \\ e^{1} \\ e^{-1} \\ e^{2} \end{bmatrix}$$

$$c = 4 \qquad \text{(e.)}$$

$$c = 6 \qquad \text{(e.)}$$

$$c$$

Softmax regression generalizes logistic regression to C classes.

If (=1, softmax reduces to logistic regression.

#### Loss function

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#### Summary of softmax classifier

