truth

$$= \begin{pmatrix} 11110010 \\ 01111010 \\ 00001100 \\ \vdots \\ 11001100 \\ 11101111 \end{pmatrix} \longrightarrow 1 = \text{“cat”}$$

X

y

rules

$$f(X, \theta_a) \longrightarrow 1 = \text{“cat”} \quad ✓$$

$$f(X, \theta_b) \longrightarrow 0 = \text{“dog”} \quad ✗$$

$$f(X, \theta_c) \longrightarrow 0 = \text{“dog”} \quad ✗$$