

# truth



$$= \begin{matrix} & X \\ \begin{pmatrix} 1 & 1 & 1 & 1 & 0 & 0 & 1 & 0 & 0 \\ 0 & 1 & 1 & 1 & 1 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 & 1 & 1 & 1 & 0 & 0 \\ & \vdots & & & & & & & \\ 1 & 1 & 0 & 0 & 1 & 1 & 1 & 0 & 0 \\ 1 & 1 & 1 & 0 & 1 & 1 & 1 & 1 & 1 \end{pmatrix} & \longrightarrow & \begin{matrix} y \\ 1 \end{matrix} & = & \text{"cat"} \end{matrix}$$

# rules

$$f(X, \theta_a) \longrightarrow 1 = \text{"cat"} \quad \checkmark$$

$$f(X, \theta_b) \longrightarrow 0 = \text{"dog"} \quad \times$$

$$f(X, \theta_c) \longrightarrow 0 = \text{"dog"} \quad \times$$