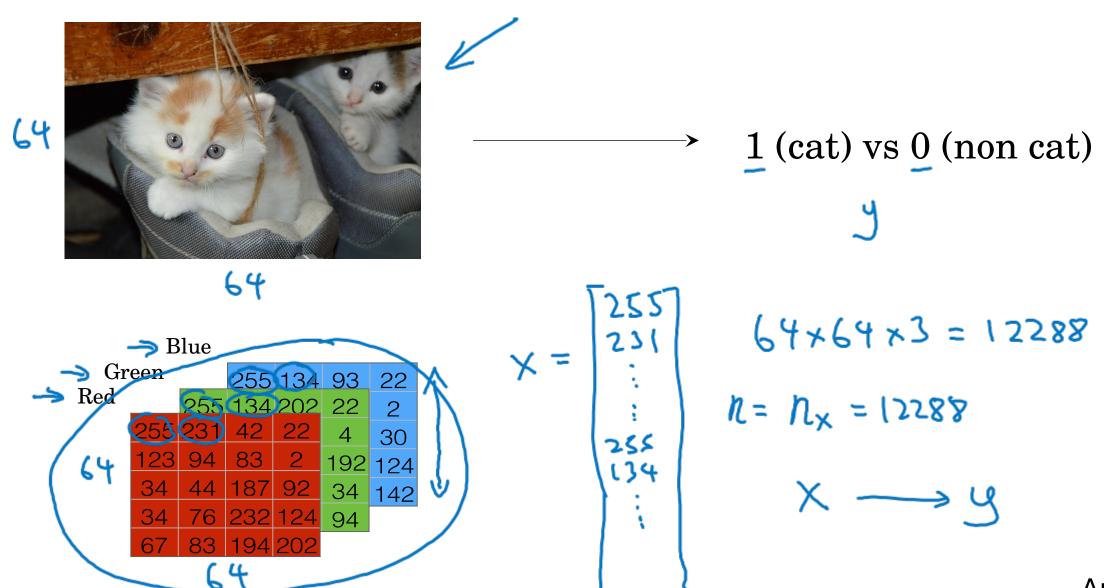


deeplearning.ai

## Basics of Neural Network Programming Binary Classification

## **Binary Classification**



Andrew No

## Notation

$$(x,y)$$
  $\times \in \mathbb{R}^{n_x}$ ,  $y \in \{0,1\}$   
 $m \in \mathbb{R}^{n_x}$ ,  $y \in \{0,1\}$   
 $m \in \mathbb{R}^{n_x}$   $(x^{(1)},y^{(1)})$ ,  $(x^{(1)},y^{(2)})$ , ...,  $(x^{(m)},y^{(m)})$ }  
 $M = \mathbb{R}^{n_x}$   $\mathbb{R}^{n_x}$   $\mathbb{R}^{n_x}$