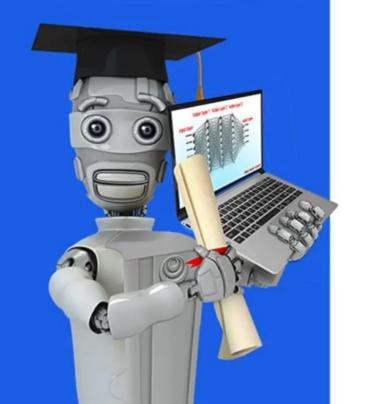
Stanford ONLINE

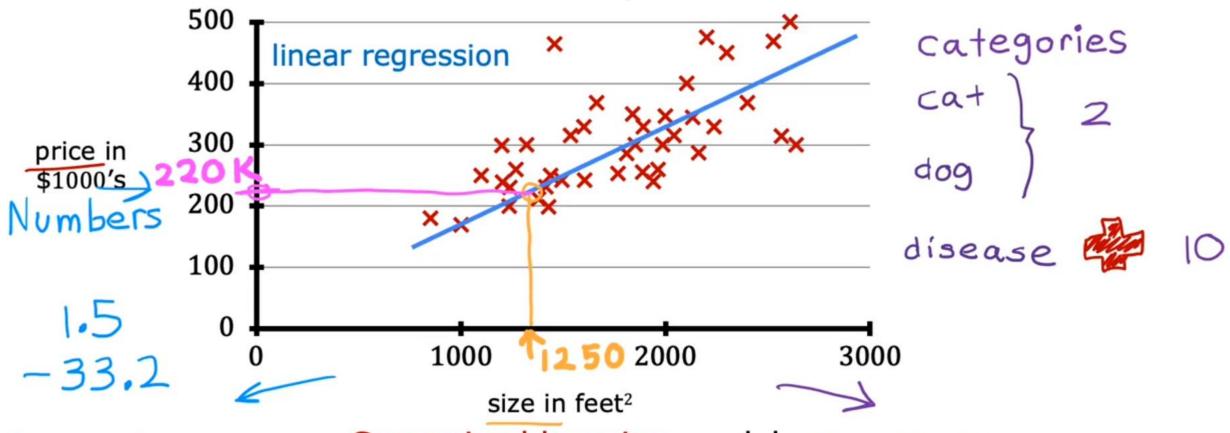
DeepLearning.Al



## Linear Regression with One Variable

Linear Regression Model Part 1





Regression model Predicts numbers Supervised learning model Data has "right answers"

nodel Classification model

ers" Predicts categories

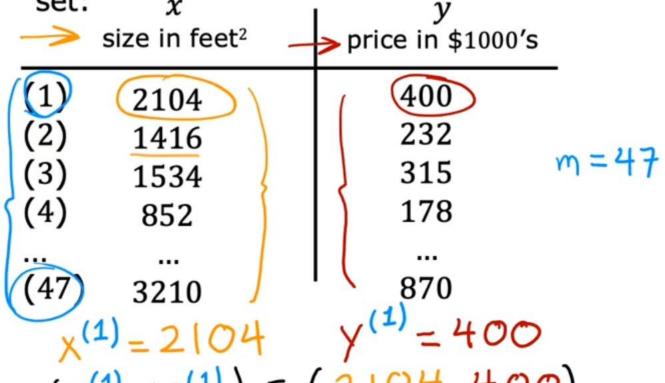
Small number of possible outputs

Infinitely many possible outputs



## Terminology

Training Data used to train the model set: x



$$\chi^{(2)} = 1416$$
  $\chi^{(2)} \pm \chi^2$  not exponent

## Notation:

$$m = number of training examples$$

$$(x, y) = \text{single training example}$$

$$(x^{(i)}, y^{(i)})$$
  
 $(x^{(i)}, y^{(i)}) = i^{th}$  training example index  $(1^{st}, 2^{nd}, 3^{rd} ...)$