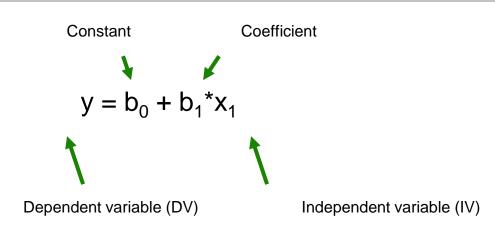
Regression & Classification Intuition

Simple Linear Regression Intuition — Step 1

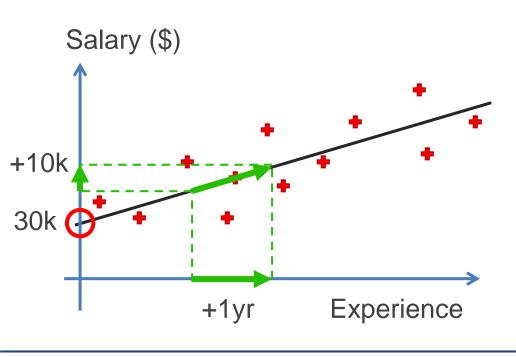
Regressions

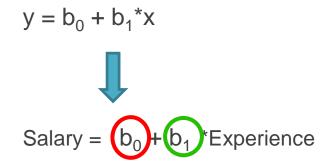
Simple Linear Regression



Regressions

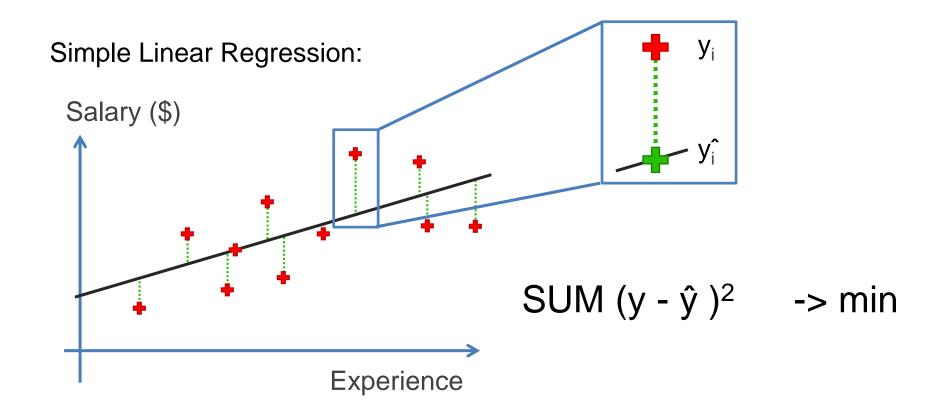
Simple Linear Regression:





Simple Linear Regression Intuition - Step 2

Ordinary Least Squares



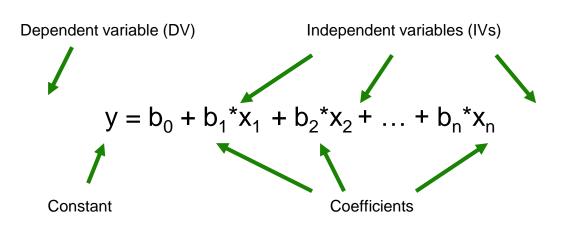
Multiple Linear Regression Intuition

Regressions

Simple Linear Regression

$$y = b_0 + b_1^* x_1$$

Multiple Linear Regression



Logistic Regression Intuition

Linear Regression:

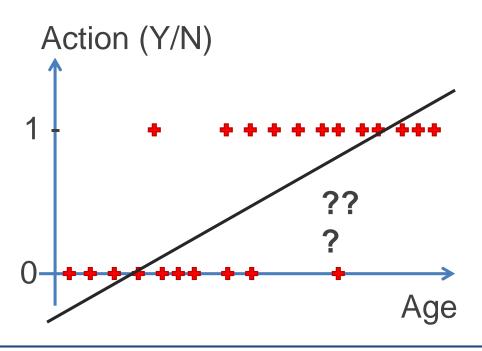
- Simple:

$$y = b_0 + b_1 x$$

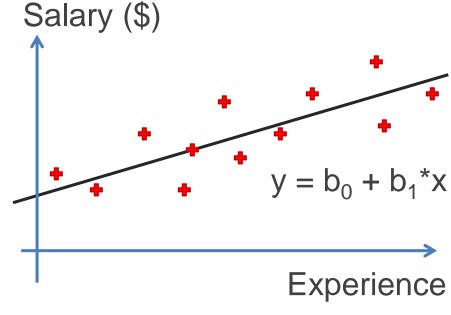
- Multiple:

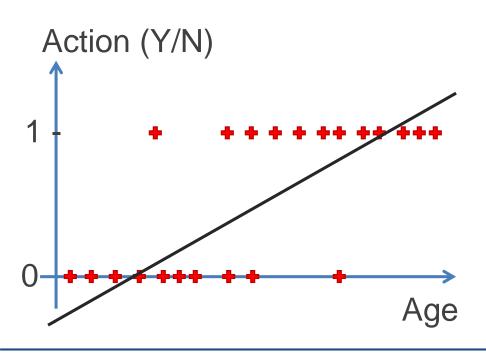
$$y = b_0 + b_1^* x_1 + ... + b_n^* x_n$$

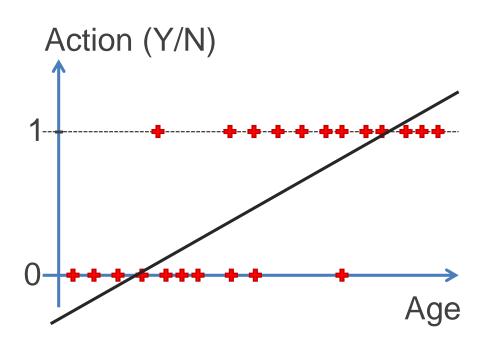
This is new:

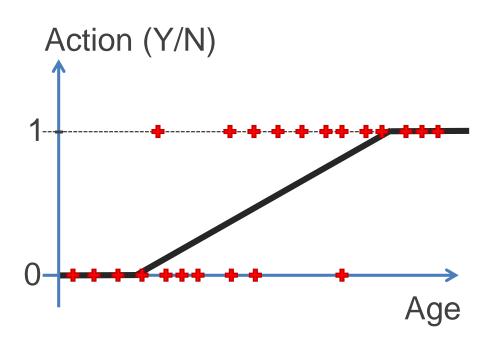


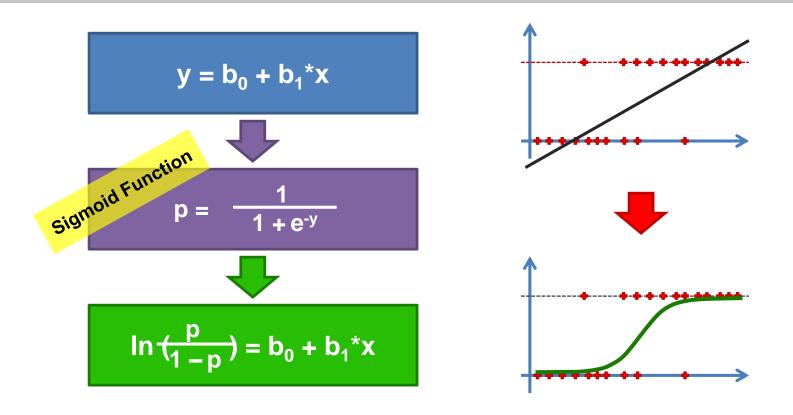
We know this:





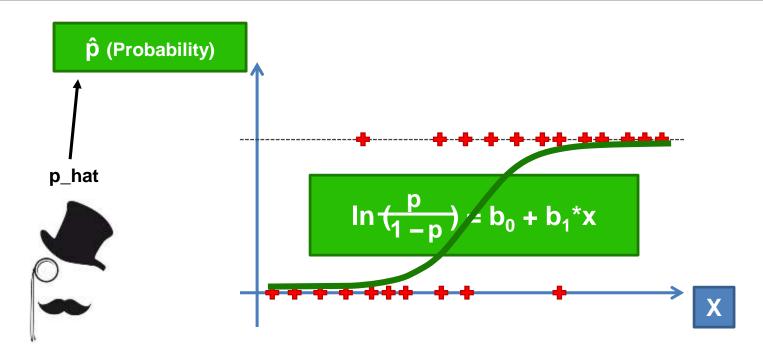


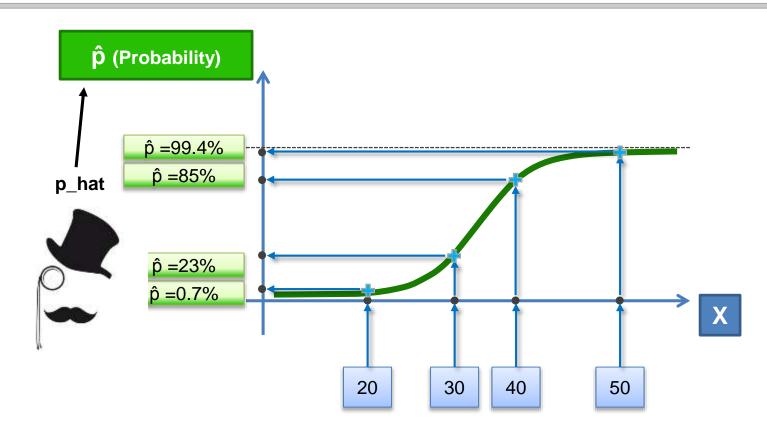


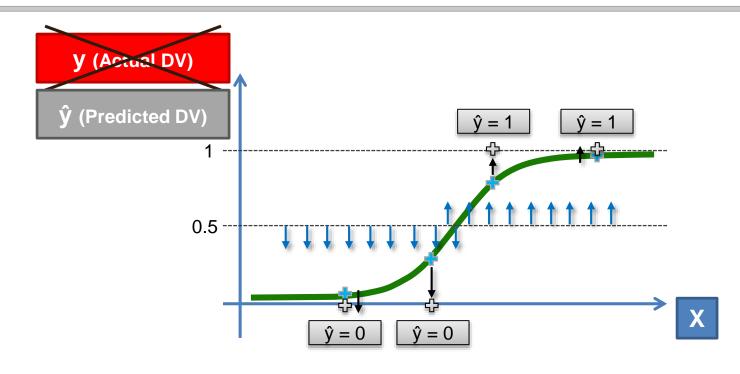




WHAT JUST HAPPENED ???







Fin.