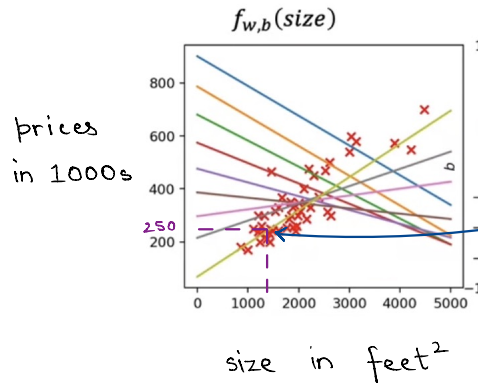


Now, we can use this $f_{w,b}(x)$ model to predict other house prices.



suppose house A is 1250 sq. ft. then price will be \$250,000.

To be precise, this type of algorithm is called batch gradient descent (there are other types such as subset gradient descent, etc)

Batch gradient descent uses all of the training examples at each step.

x size in feet ²		y price in \$1000's
(1)	2104	400
(2)	1416	232
(3)	1534	315
(4)	852	178
...
(47)	3210	870

all examples will be tested for every w, b .

↓

$$m=47 \rightarrow \sum_{i=1}^m (f_{w,b}(x^{(i)}) - y^{(i)})^2$$

Batch gradient descent is the most used algorithm for linear regression.