Multiple fe	Number of bedrooms	Number of floors	Age of home (years)	Price (\$1000)
×1	×2	×3	**	
2104	5	1	45	460 7
	3	2	40	232 - m= 47
1534	3	2	30	315
852	2	1	36	178
) ,
Notation:	*	1	1	(2) = [1416] CIP
$\rightarrow n$ = number of features $n=4$				
$\rightarrow x^{(i)}$ = input (features) of i^{th} training example.				
$x_{j}^{\left(i\right)}$ = value of feature j in i^{th} training example.				

这里有四个特征向量,用小写 n 来表示特征量的数目,这里面 n=4,

用 x 上标(2)表示第二个训练样本特征向量---x(2)=[1416,3,2,40],对应了用来预测房屋价格的第二个房子的四个特征向量。第 i 个训练样本对应第 i 样本特征向量。

Hypothesis:

Previously:
$$h_{\theta}(x) = \theta_{0} + \theta_{1}x$$

$$h_{\theta}(x) = \theta_{0} + \theta_{1}x_{1} + \theta_{2}x_{2} + \theta_{3}x_{3} + \theta_{4}x_{4}$$

$$\theta_{0}(x) = \theta_{0} + \theta_{1}x_{1} + \theta_{2}x_{2} + \theta_{3}x_{3} + \theta_{4}x_{4}$$

$$\theta_{0}(x) = \theta_{0} + \theta_{1}x_{1} + \theta_{2}x_{2} + \theta_{3}x_{3} + \theta_{4}x_{4}$$

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$$\theta_{0}(x) = \theta_{0}(x) + \theta_{1}(x) + \theta_{2}(x) + \theta_{3}(x)$$

$$\theta_{0}(x) = \theta_{0}(x) + \theta_{1}(x) + \theta_{2}(x) + \theta_{3}(x)$$

$$\theta_{0}(x) = \theta_{0}(x) + \theta_{1}(x) + \theta_{2}(x)$$

$$\theta_{0}(x) = \theta_{0}(x) + \theta_{1}(x)$$

线性回归假设:

- 一个房子价格可以实80k+0.1*x1+0.01*2+3*3-2*4这就是一个假设的范例,假设是为了预测,
- 一个房子的价格是 80k 加上 0.1 乘以 1 也就是说每平方尺 100 美元,然后价格会随着楼层不断增加,再继续增长是楼层数,接着价格会继续增加,随着卧室数量的增加*3,但是房子的价格随着年数增加而贬值。

重新改写形式为: