

Boston  
<https://archive.ics.uci.edu/>  
<https://www.kaggle.com/vi>

Run #	num_iters	rate	initial thetas
1	2000	0.0057	[4.17022005e-01 7.20324493e-01 1.14374817e-04 3.02332573e-01 1.46755891e-01 9.23385948e-02 1.86260211e-01 3.45560727e-01 3.96767474e-01 5.38816734e-01 4.19194514e-01 6.85219500e-01 2.04452250e-01]
2	2000	0.0001	[0.07630829 0.77991879 0.43840923 0.72346518 0.97798951 0.53849587 0.50112046 0.07205113 0.26843898 0.4998825 0.67923 0.80373904 0.38094113]

3	5000	0.0001	[0.5488135
			0.71518937
			0.60276338
			0.54488318
			0.4236548
			0.64589411
			0.43758721
			0.891773
			0.96366276
			0.38344152
			0.79172504
			0.52889492
			0.56804456]
			[0.89286015
			0.33197981
			0.82122912
4	30000	0.0001	0.04169663
			0.10765668
			0.59505206
			0.52981736
			0.41880743
			0.33540785
			0.62251943
			0.43814143
			0.73588211
			0.51803641]
			[0.77132064
			0.02075195
			0.63364823
			0.74880388
			0.49850701
			0.22479665
5	30000	0.00070	0.19806286
			0.76053071
			0.16911084
			0.08833981
			0.68535982
			0.95339335
			0.00394827]

6	30000	0.0037	[0.89286015
			0.33197981
			0.82122912
			0.04169663
			0.10765668
			0.59505206
			0.52981736
			0.41880743
			0.33540785
			0.62251943
			0.43814143
			0.73588211
			0.51803641]
			[4.17022005e-01
			7.20324493e-01
7	3000	0.0007	1.14374817e-04
			3.02332573e-01
			1.46755891e-01
			9.23385948e-02
			1.86260211e-01
			3.45560727e-01
			3.96767474e-01
			5.38816734e-01
			4.19194514e-01
			6.85219500e-01
			2.04452250e-01]
			[0.01037415
			0.50187459
			0.49577329
			0.13382953
8	30000	0.0007	0.14211109
			0.21855868
			0.41850818
			0.24810117
			0.08405965
			0.34549864
			0.16677635
			0.87855909
			0.95096403]

9	5000	0.00077	[0.5488135
			0.71518937
			0.60276338
			0.54488318
			0.4236548
			0.64589411
			0.43758721
			0.891773
			0.96366276
			0.38344152
			0.79172504
			0.52889492
			0.56804456]
			[0.01037415
			0.50187459
10	5000	0.000077	0.49577329
			0.13382953
			0.14211109
			0.21855868
			0.41850818
			0.24810117
			0.08405965
			0.34549864
			0.16677635
			0.87855909
			0.95096403]

onHousePrice Data Set  
[u/ml/machine-learning-databases/housing](https://ml/machine-learning-databases/housing)  
[ikrishnan/boston-house-prices#housing.c](https://krishnan/boston-house-prices#housing.c)

Thetas	Last 10 costs
[22.53256667 -	
1.23989035	[13.41983408
0.68337413 -	13.41973411
0.50083053	13.41963428
0.86189967 -	13.41953459
1.99035846	13.41943505
4.43137367 -	13.41933565
1.28655267 -	13.41923639
2.89600466	13.41913728
1.49619662 -	13.41903831
1.02942523 -	13.41893948]
2.11605906	
1.25083582]	
[ 4.14716465	
0.09242402	[195.54461003
0.88796487 -	195.50576221
0.04444265	195.46692517
1.09415624 -	195.42809891
0.12036714	195.38928343
1.53943257 -	195.35047872
0.47654863	195.31168476
0.5733551 -	195.27290157
0.16674668 -	195.23412913
0.12406219 -	195.19536744]
0.05510052	
0.85575041]	

[ 9.19917402 -	
0.31035439	
1.04383161 -	[109.43751103
0.47057627	109.41861885
0.84599663 -	109.39973054
0.22187171	109.3808461
2.41120446	109.36196554
0.11428847	109.34308884
0.94792465 -	109.32421602
0.41636942 -	109.30534707
0.31936995 -	109.28648199
0.87557388	109.26762078]
1.18613804]	
[21.45557845 -	
0.9694875	[14.7853567
0.6904519 -	14.78520405
0.77964315	14.78505143
0.95529176 -	14.78489883
0.73649613	14.78474626
4.44600127 -	14.78459371
0.69006449 -	14.78444119
1.46189213	14.7842887
0.53042363 -	14.78413623
0.68465844 -	14.78398379]
1.74009387	
1.23804946]	
[22.53280631 -	
1.32120444	[13.35311872
0.81938507 -	13.3531165
0.39538358	13.35311429
0.84503124 -	13.35311207
2.27204167	13.35310986
4.34216872 -	13.35310765
1.31546094 -	13.35310543
3.21900156	13.35310322
1.90365645 -	13.35310101
1.3816183 -	13.3530988 ]
2.16400289	
1.23983663]	

[22.53280632 -	
1.3742427	
0.90553689 -	[13.32966745
0.19197839	13.32966745
0.81626813 -	13.32966745
2.37124489	13.32966745
4.29800627 -	13.32966745
1.29172619 -	13.32966745
3.27099761	13.32966745
2.44776456 -	13.32966745
1.97462357 -	13.32966745]
2.19350713	
1.24226498]	
[19.82657711 -	
0.76529711	[18.33210399
0.50364444 -	18.32637937
0.66007269	18.32066243
1.01109908 -	18.31495315
0.81840596	18.30925154
4.16633878 -	18.30355757
0.52087204 -	18.29787125
0.95301517	18.29219255
0.28721218 -	18.28652146
0.62939703 -	18.28085798]
1.77194985	
1.14458352]	
[22.53280631 -	
1.3255733	[13.34856579
0.82802065 -	13.34856397
0.37662354	13.34856215
0.84184073 -	13.34856033
2.26785367	13.34855851
4.33923934 -	13.3485567
1.3165772 -	13.34855488
3.21877264	13.34855306
1.96104214 -	13.34855124
1.44981674 -	13.34854943]
2.16312207	
1.24069139]	

[22.06568601 -	
0.93440019	
0.49783712 -	[14.24482022
0.60186174	14.24442902
0.93948203 -	14.24403816
0.98845636	14.24364766
4.59597105 -	14.24325749
0.69652815 -	14.24286767
1.40912021	14.2424782
0.49452345 -	14.24208907
0.51263311 -	14.24170028
1.88885741	14.24131183]
1.26517351]	
[ 7.2076302 -	
0.27587365	
0.97206852 -	[138.65737366
0.64046808	138.63807707
0.58839402 -	138.6187836
0.40361347	138.59949326
2.04741695 -	138.58020605
0.31856687	138.56092196
0.1554073 -	138.541641
0.24784346 -	138.52236316
0.64769637 -	138.50308844
0.37655175	138.48381685]
1.3412109 ]	



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SV

**Line Curve of the cost & Iterations**







