

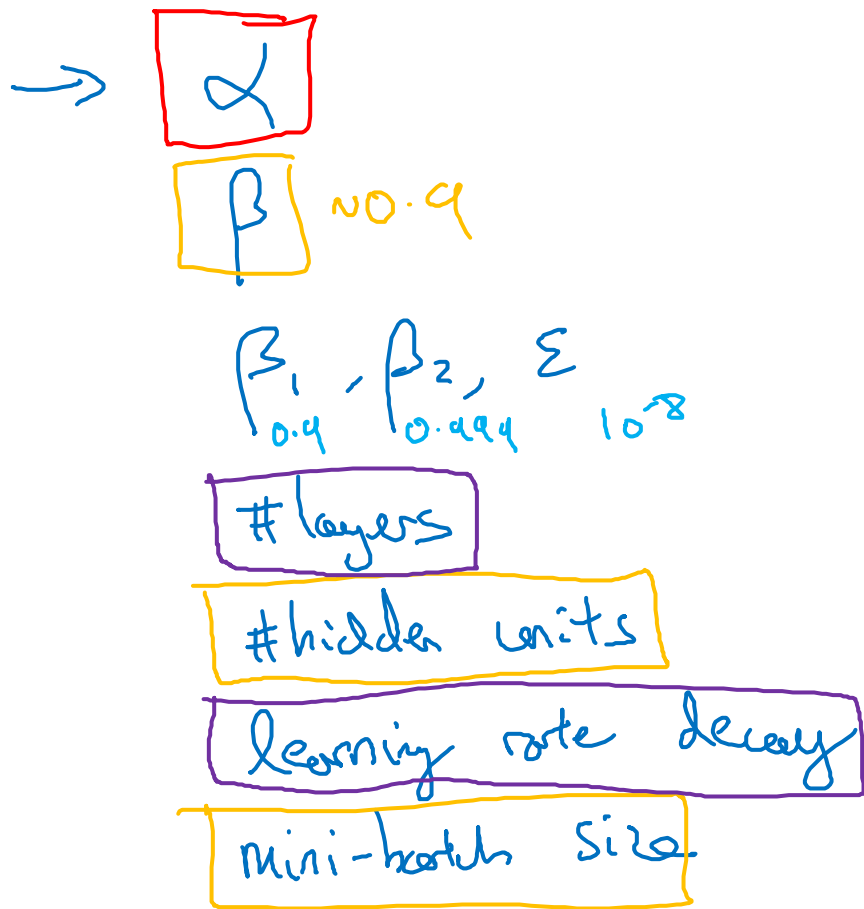


deeplearning.ai

Hyperparameter tuning

Tuning process

Hyperparameters



Possible hyperparameters that we need to tune including the following: learning rate α

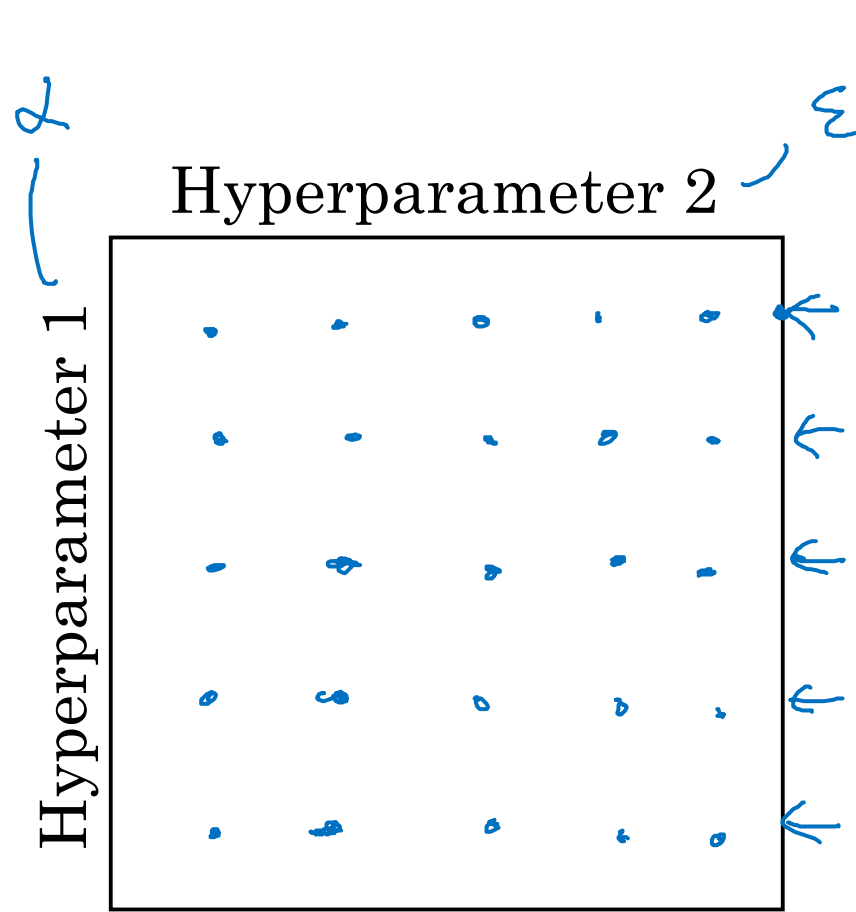
β parameter in the exponentially weighted moving average

β_1 , β_2 , ϵ in the Adam Optimization Algorithm, β_1 in the exponentially weighted moving average, β_2 in the RMSprop Optimization algorithm

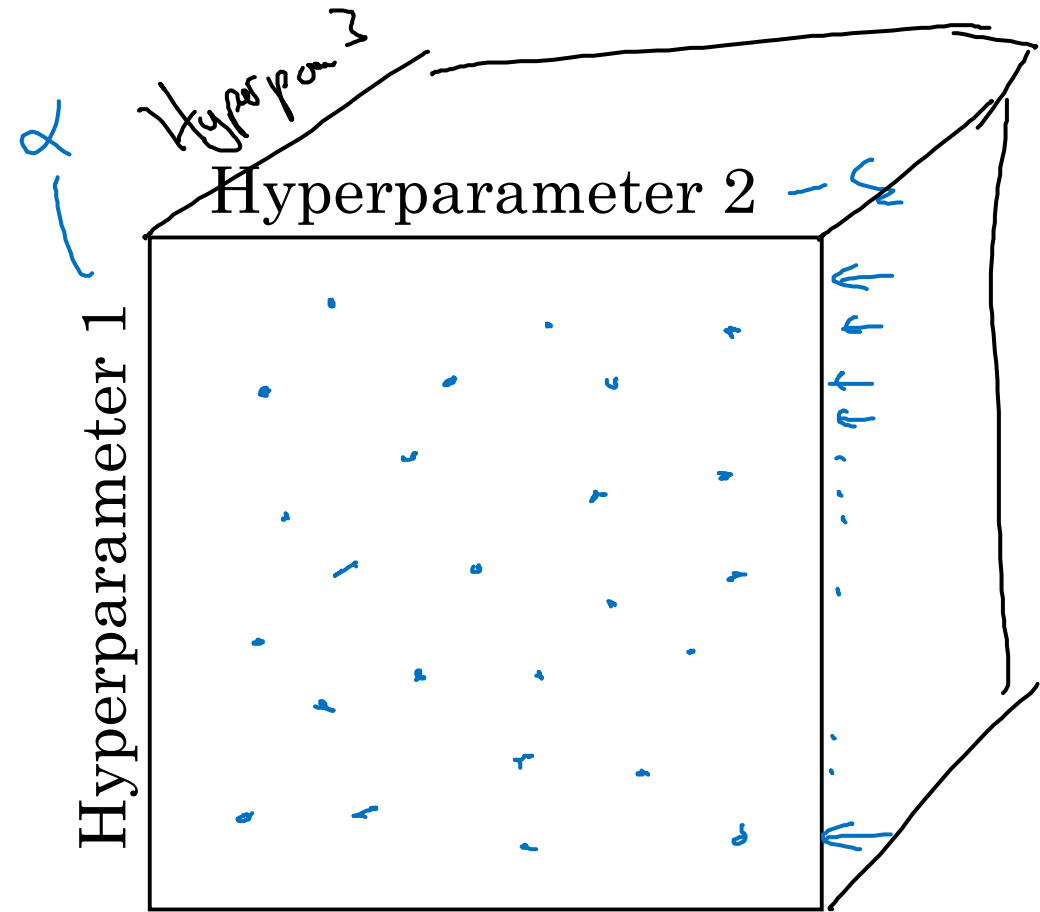
Number of layers in the Neural Network, number of hidden units in each hidden layer in the Neural Network

How learning rate decays, the mini-batch size

Try random values: Don't use a grid



Here, using the `grid_search` will decrease the amount of values you can attempt in both dimensions.



Hence, randomization should instead be used.

Coarse to fine

