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		ı .	•	1.
ل	Lhi	けいひし	ハマグ	tion

A well chosen initialization can:

1. speed up the convergence of gradient descent

2. Increase the odds of gradient descent

converging to a lower training (and generalization)

error

Zeros initialization Random initialization He initialization Best!

```
Initialize parameters Zeros:
for I in range (1, 1):
    parameters ['W' + Strll)] = np. Zeros (lagers_dim strl)
                                      layers_dims[[-1]])
    parameters['b'+str(L)]=np. zeros((layers_dims[l],1))
random!
parameters['w'tstr(u] = np. tandom. tanda( layers_dims ch),
                                          layers_dins[l-1])*1.
parameters['b'+str(L)]= np. zeros((layers_dims[l],1))
He initialization:
 tandom. tanda (layers_dims Cl], layers_dims [1-1]) *
            rp. sqrt(2./ layers_dims[l-1])
       A dimension of previous layer
```