Epochs



From looking at the output above, you can see the model doesn't increase the validation accuracy after epoch 80. Let's see what happens when we increase the learning rate.

 $learn_rate = 0.1$

```
Epoch: 76 - Cost: 0.214 Valid Accuracy: 0.752
Epoch: 77 - Cost: 0.21
                          Valid Accuracy: 0.756
           - Cost: 0.21
Epoch: 78
                          Valid Accuracy: 0.756
Epoch: 85
          - Cost: 0.207
                          Valid Accuracy: 0.756
Epoch: 86 - Cost: 0.209
                          Valid Accuracy: 0.756
Epoch: 87
          - Cost: 0.205
                          Valid Accuracy: 0.756
Epoch: 88 - Cost: 0.208
                          Valid Accuracy: 0.756
Epoch: 89 - Cost: 0.205 Valid Accuracy: 0.756
Epoch: 90
          - Cost: 0.202
                          Valid Accuracy: 0.756
Epoch: 91
          - Cost: 0.207
                          Valid Accuracy: 0.756
Epoch: 92
          - Cost: 0.204
                          Valid Accuracy: 0.756
Epoch: 93
          - Cost: 0.206
                          Valid Accuracy: 0.756
          - Cost: 0.202
Epoch: 94
                          Valid Accuracy: 0.756
Epoch: 95 - Cost: 0.2974 Valid Accuracy: 0.756
Epoch: 96 - Cost: 0.202
                          Valid Accuracy: 0.756
Epoch: 97 - Cost: 0.2996 Valid Accuracy: 0.756
Epoch: 98
          - Cost: 0.203
                          Valid Accuracy: 0.756
```