#### Week 2-1 Optimization Algo: Mini-batch GD

笔记本: DL 2 - Deep NN Hyperparameter Tunning, Regularization & Optimization

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# Mini-batch GD

### Batch vs. mini-batch gradient descent

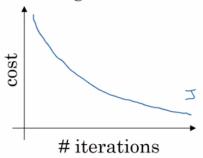
Vectorization allows you to efficiently compute on m examples.

Andrew Ng

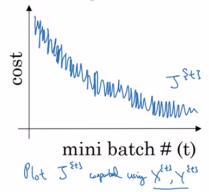
epoch

## Training with mini batch gradient descent

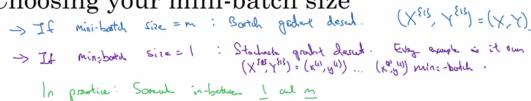


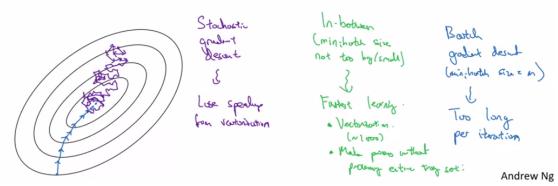


#### Mini-batch gradient descent



### Choosing your mini-batch size





# typical mini-batch size Choosing your mini-batch size

Small tay set: Use both grader descent. (m = 2000) It

Typical mini-botch sizes: 64, 128, 256, 512 2° 2° 2° 2° 1024 Make sure ministratel fil in CPU/GPU memoory.