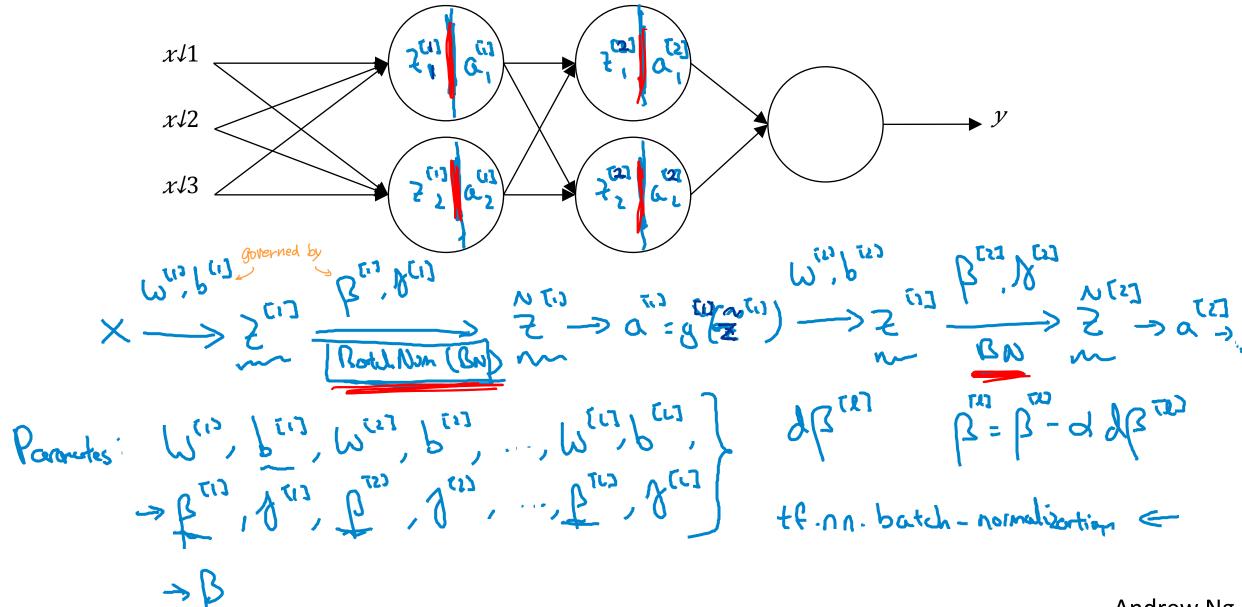


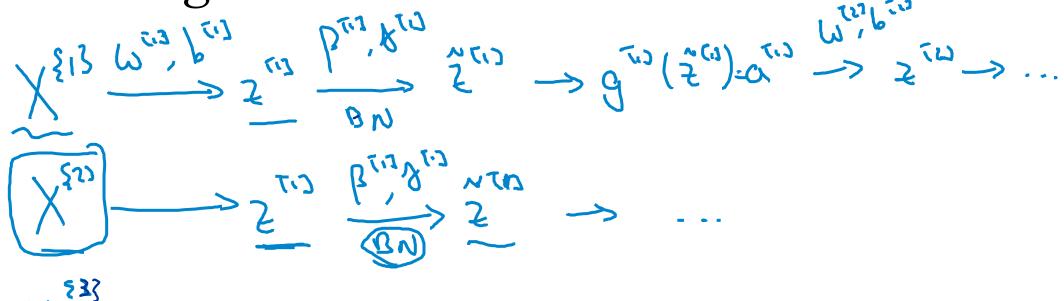
## Batch Normalization

# Fitting Batch Norm into a neural network

#### Adding Batch Norm to a network



#### Working with mini-batches



b[I]의 값이 무엇이건 간에 BN 과정에서 z[I]의 평균을 빼버리기 때문에 소용없는 값이 되어 버린다.

Andrew Ng

Porntes: 
$$(J^{TL}, J^{TL}, J^$$

### Implementing gradient descent