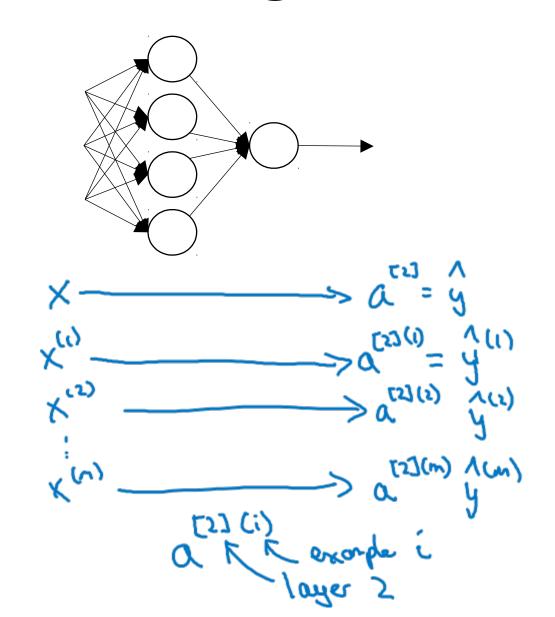
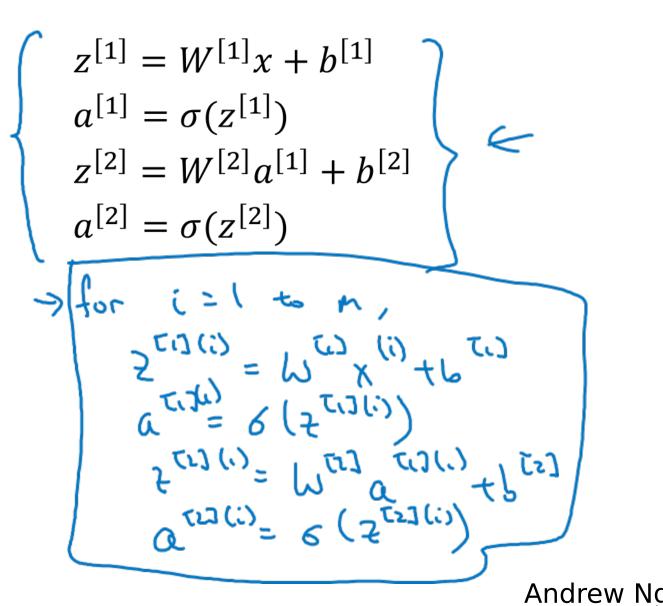


## One hidden layer Neural Network

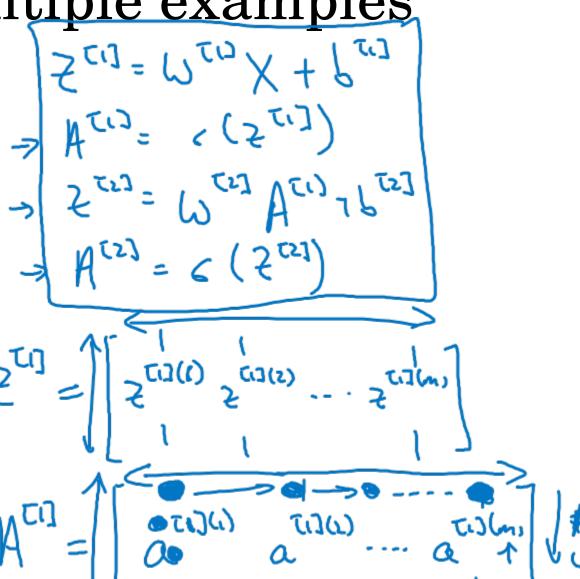
Vectorizing across multiple examples

## Vectorizing across multiple examples





Vectorizing across multiple examples



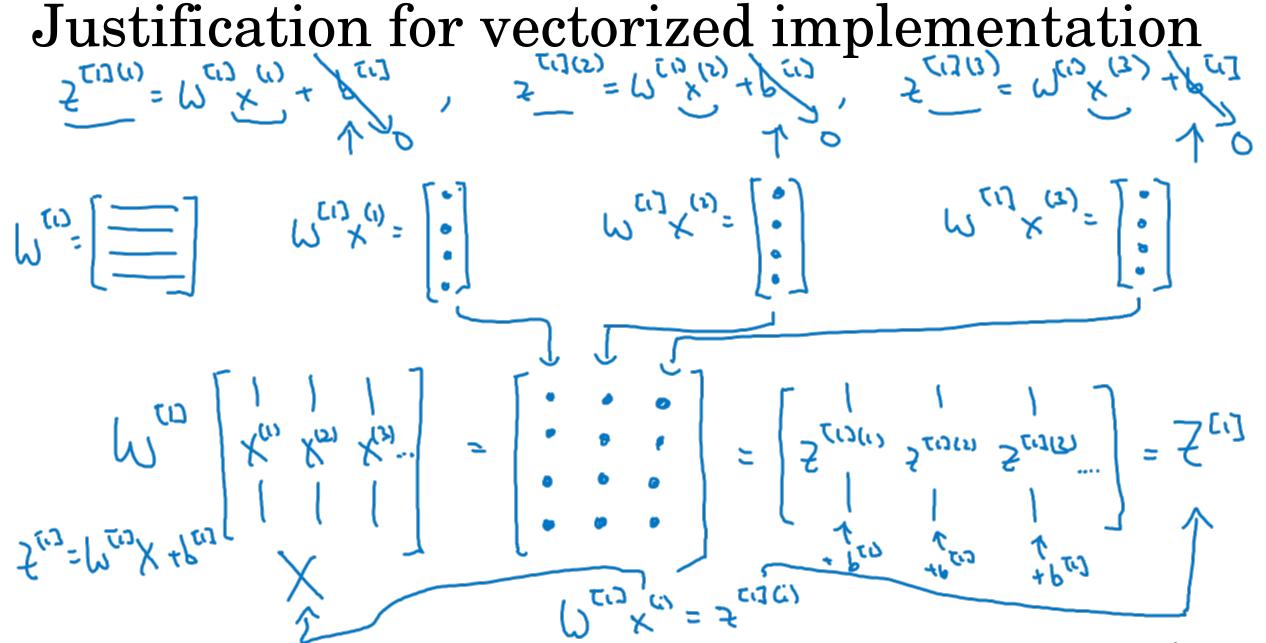
Andrew No



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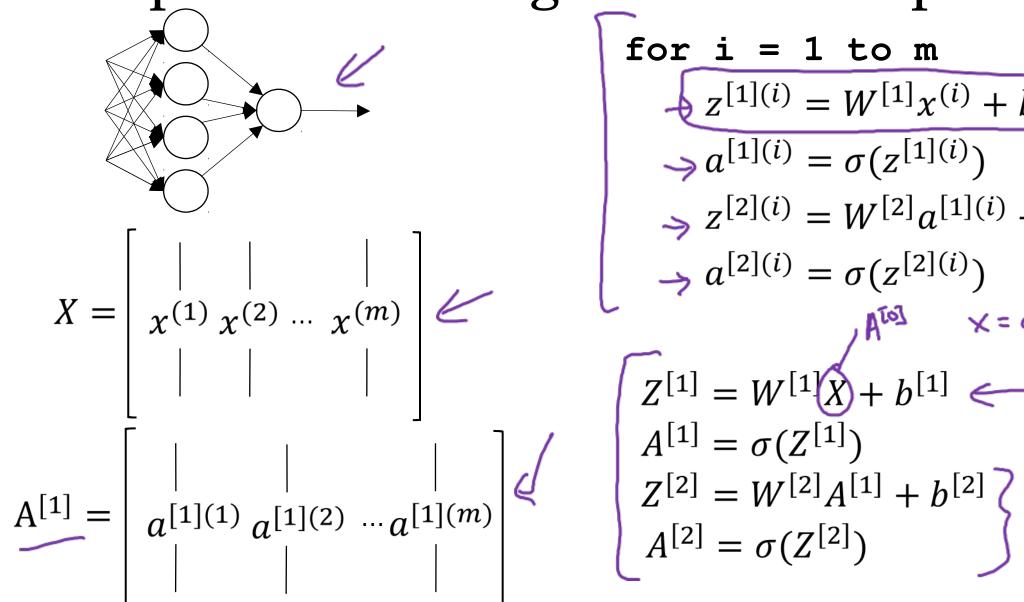
## One hidden layer Neural Network

Explanation for vectorized implementation



Andrew No

## Recap of vectorizing across multiple examples



```
\Rightarrow a^{[1](i)} = \sigma(z^{[1](i)})
    > z^{[2](i)} = W^{[2]}a^{[1](i)} + b^{[2]} 
  \rightarrow a^{[2](i)} = \sigma(z^{[2](i)})
                     , A[0] X = a[0] X() = a[0](1)
Z^{[1]} = W^{[1]}X + b^{[1]} \leftarrow W^{[1]}X^{(1)} + b^{[1]} = \sigma(Z^{[1]})
                                                Andrew No
```