

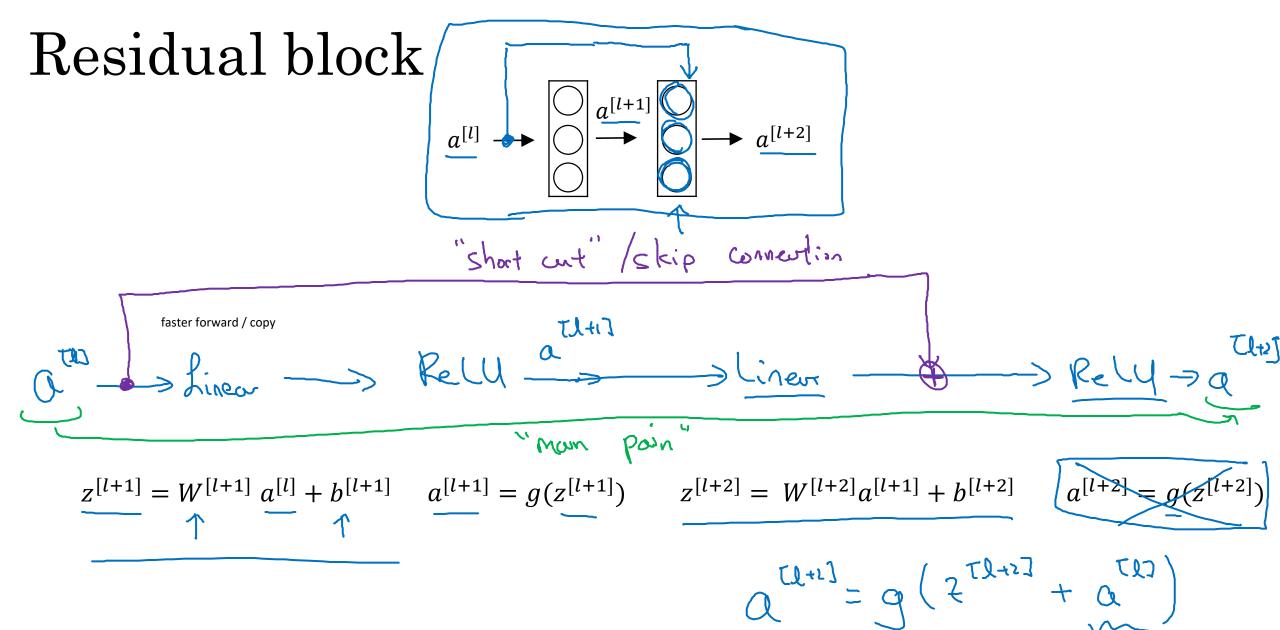
## Case Studies

## deeplearning.ai

Residual Networks

stypes of problem.
and suddenly feed it to
which enables you to train

Very, very deep neural deep networks are difficult to train because of vanishing and exploding gradients types of problem. In this video, you learn about skip connections which allows you to take the activation from one layer, and suddenly feed it to another layer, even much deeper in the neural network. And using that, you're going to build ResNets which enables you to train very very deep neural networks, sometimes even networks of over 100 layers.



## Residual Network Plain ResNet In theory as you make a neural network deeper, it should only do better and error training error better on the training set, right. But in practice or in reality, having a plain network that's very deep means that your optimization algorithm just has much harder time training. And so in reality, your training errors gets worse if you pick a network that's too deep. training reality" theory

Andrew Ng

# layers

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