Why do residual networks work?

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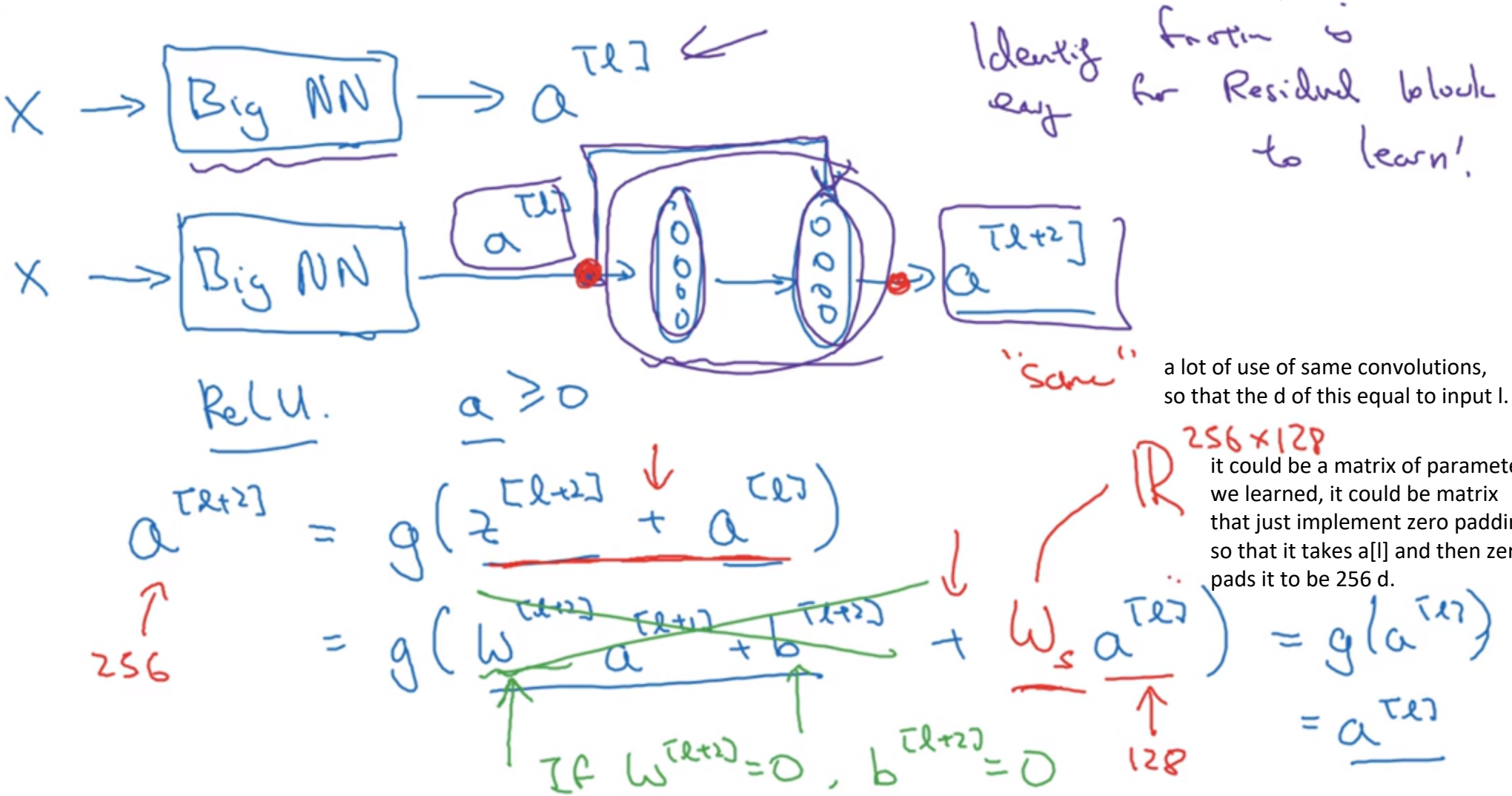

a lot of use of same convolutions, so that the d of this equal to input l.

it could be a matrix of parameters we learned, it could be matrix that just implement zero padding, so that it takes a[l] and then zero pads it to be 256 d.

ResNet

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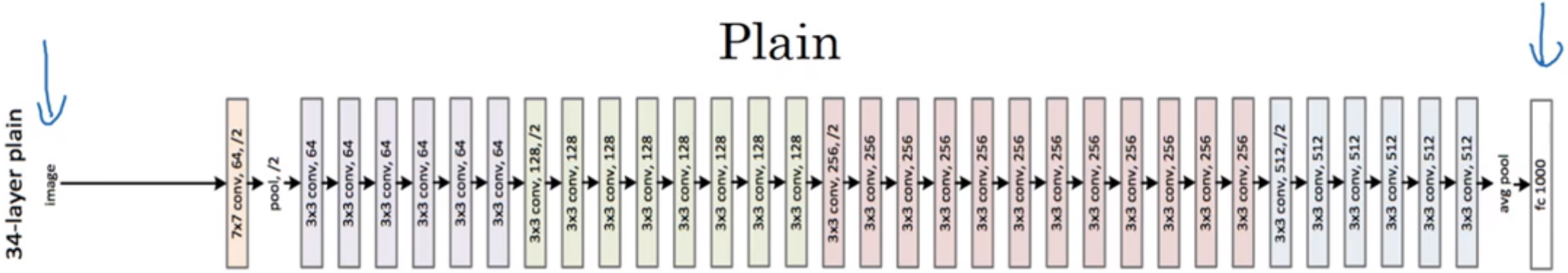
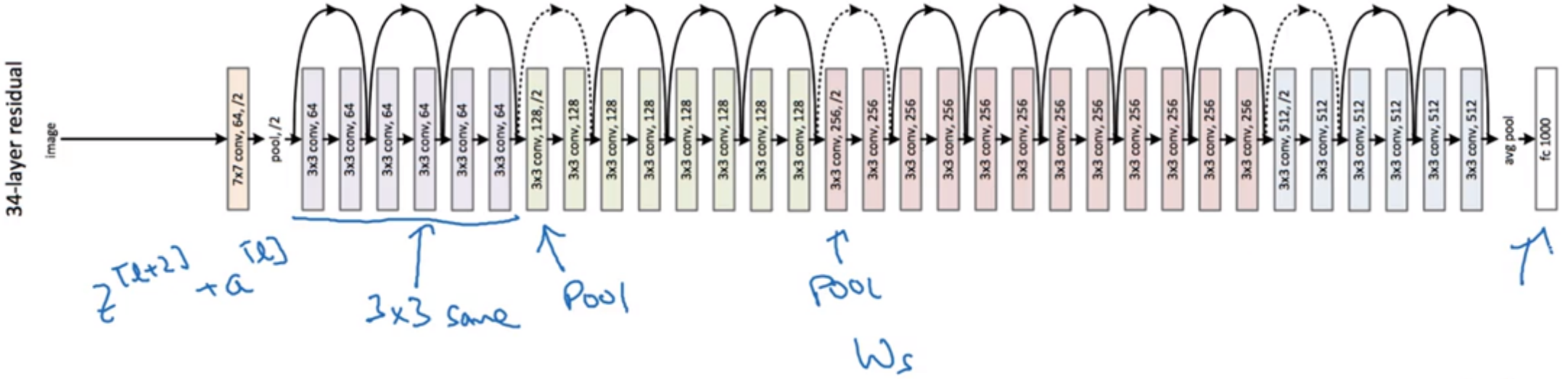
Plain



ResNet



[He et al., 2015. Deep residual networks for image recognition]

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