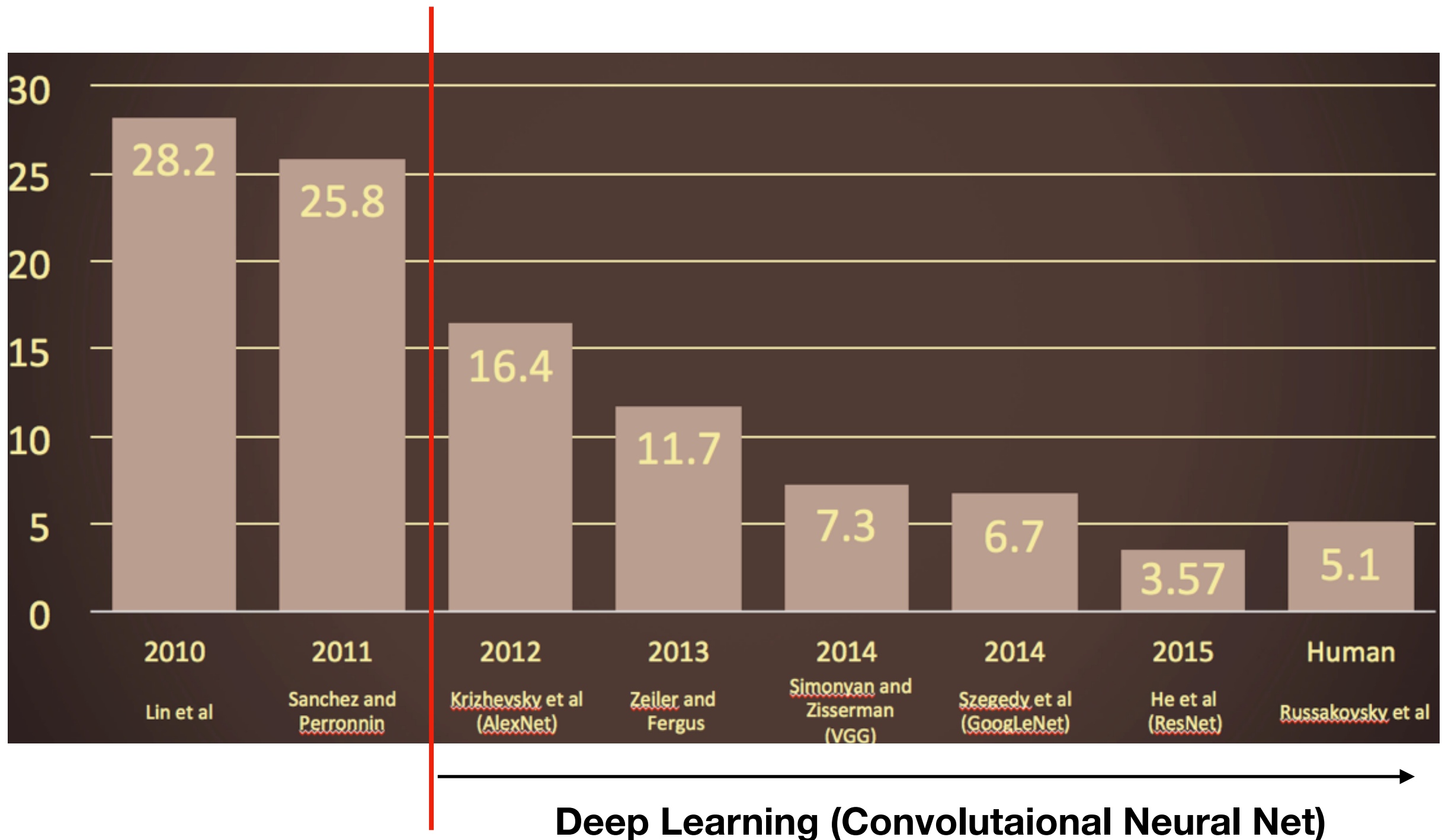


Regularization

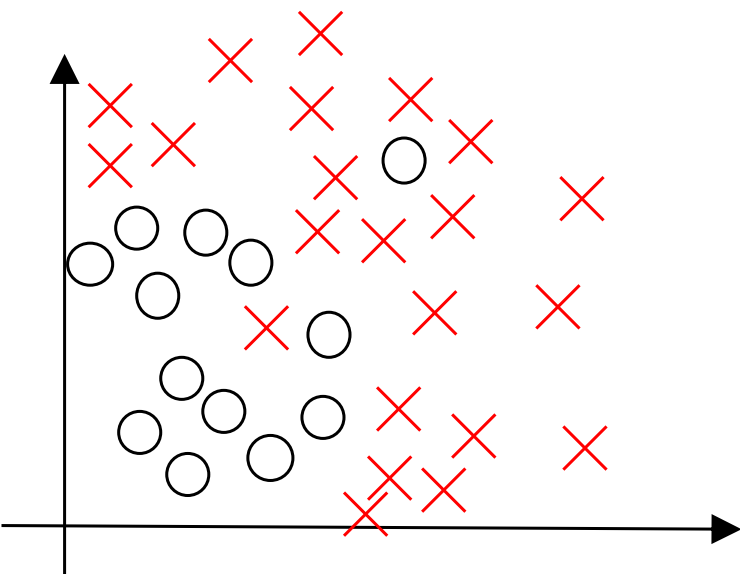
Seyoung Yun

The Breakthrough

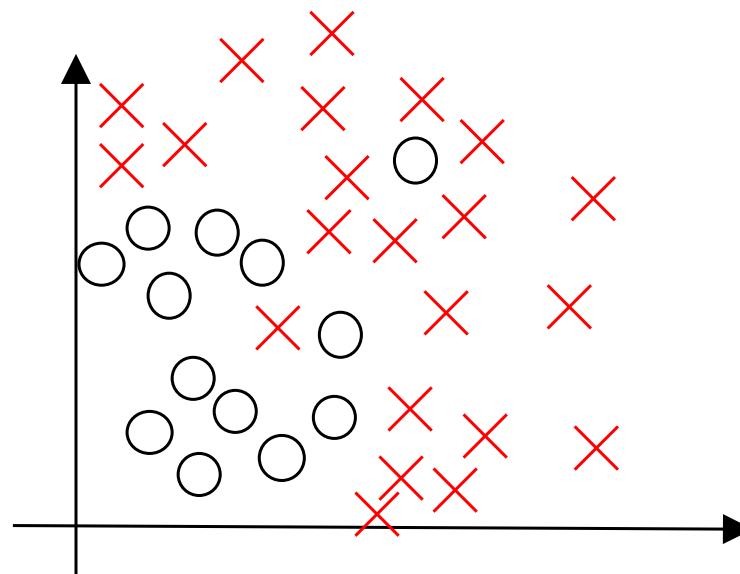


- AlexNet : ReLu and Dropout

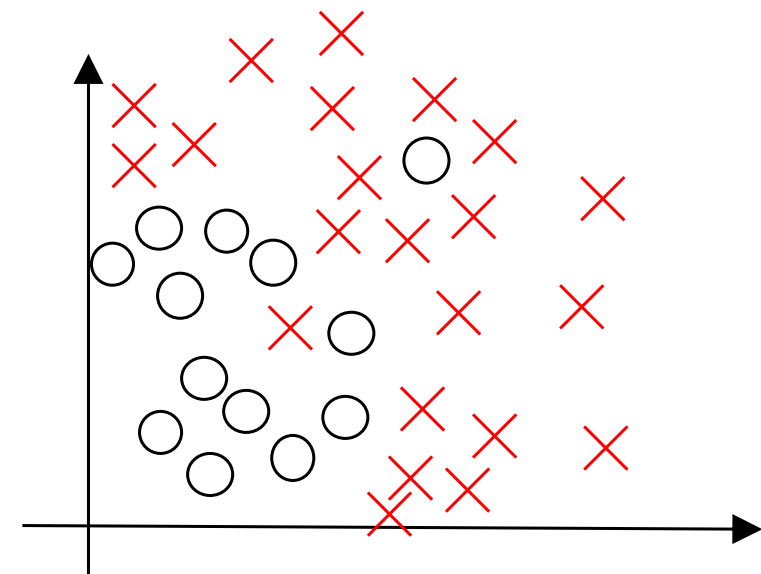
Bias-Variance



high bias



“just right”



high variance

Bias-Variance tradeoff

Basic recipe for deep learning

Train/Dev/Test set

Training Set	Dev. Set	Test
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Bias/Variance and Train/Dev

Cat classification



	Algorithm1	Algorithm2	Algorithm3	Algorithm4
Train Error	1	15	15	0.5
Dev Error	11	16	30	1
Bias				
Variance				