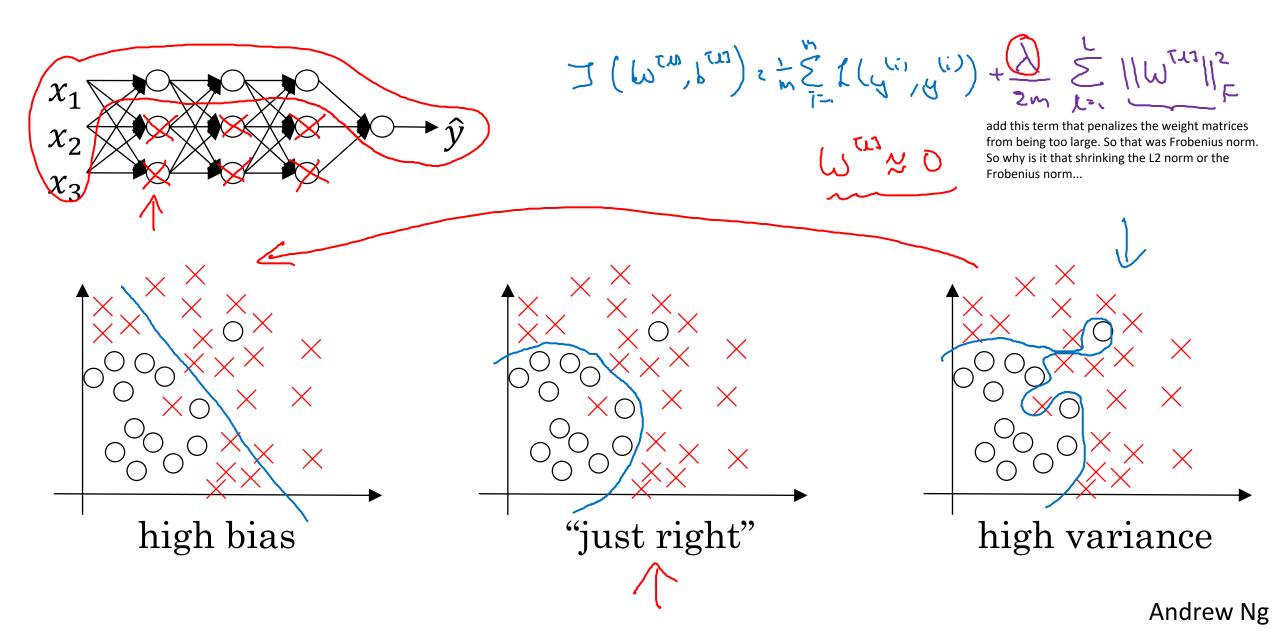


Regularizing your neural network

Why regularization reduces overfitting

How does regularization prevent overfitting?



How does regularization prevent overfitting?

So it's not able to fit those very very complicated decision, very non-linear decision boundaries that allow it to really overfit right to data sets. And so your whole neural network will be computing something not too far from a big linear function which is therefore pretty simple function rather a very complex ~ Vez highly non-linear function. So is also less able to overfit. Including the second term as well. Otherwise you might not see J decrease monotonically on every single iteration.