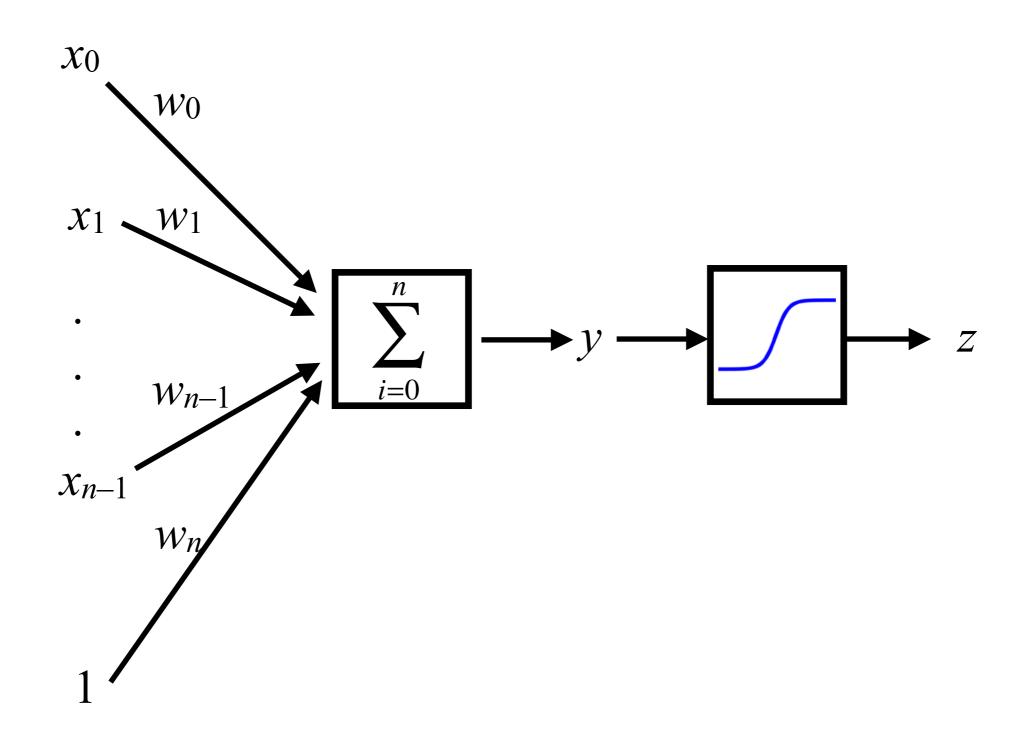
From the Perceptron to Neural Networks

Quick Review

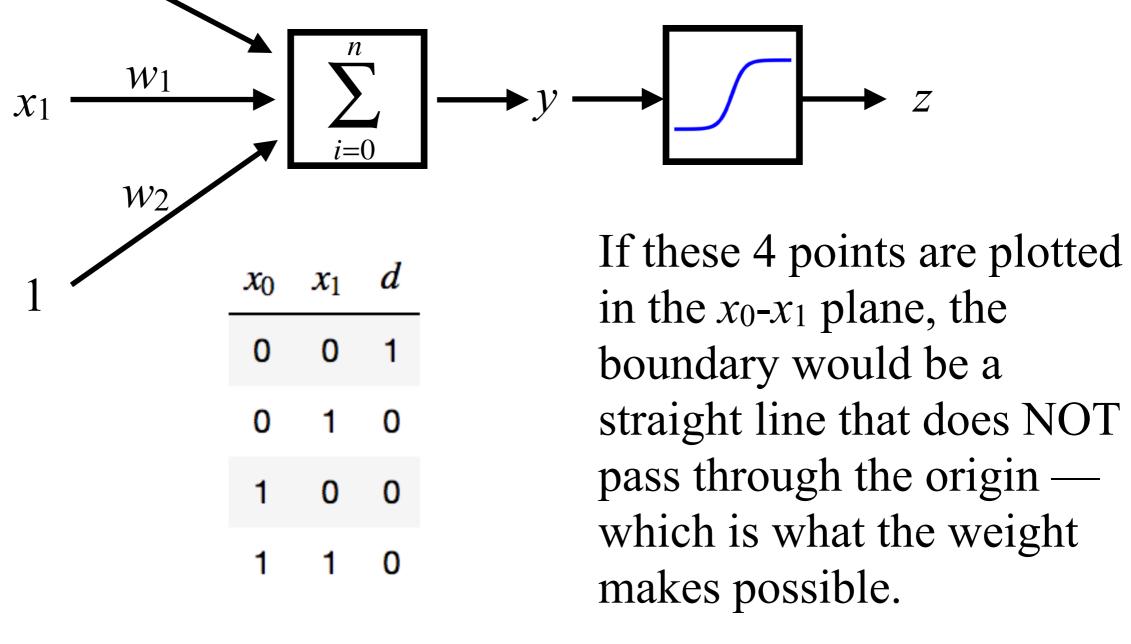
The Perceptron — Single Layer Neural Network



An alternative Sigmoid (There're others, too)

The NOR Gate Problem

 W_0

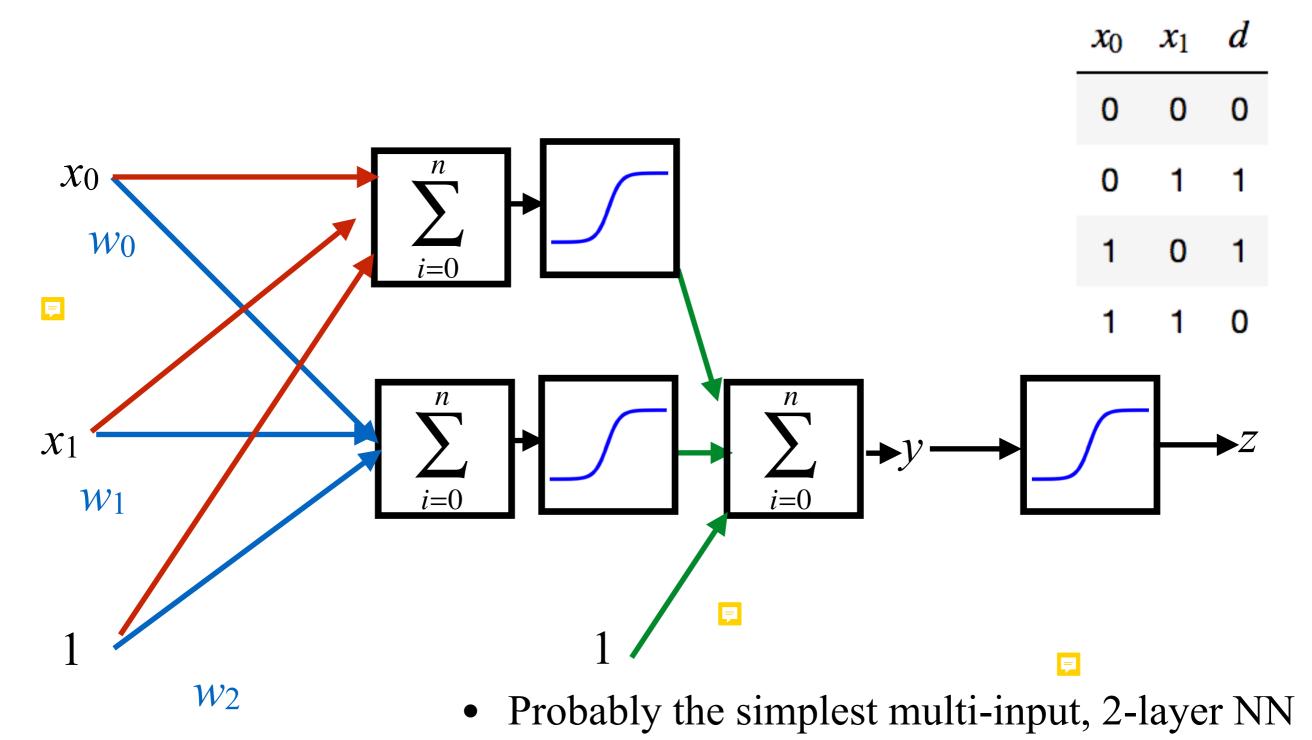


The XOR Gate Problem

x_0	x_1	d
0	0	0
0	1	1
1	0	1
1	1	0

If these 4 points are plotted in the x_0 - x_1 plane, is it possible to define a linear boundary?

The XOR Gate Problem



Forward and backward propagation

End of Week 6-1