For a lot of the space of z, the slope of or is very different from D, so the net will leaven much of Lealy ReLU: er= max (0.012, 2) Why do you need non-linear activation functions? Say g(2)=2 Clinear activ. func.): $\frac{z^{(1)}}{z^{(2)}} = W^{(2)} \times + b^{(2)}$ $\frac{z^{(1)}}{z^{(2)}} = \frac{z^{(1)}}{z^{(2)}} = W^{(2)} \times + b^{(2)}$ $\frac{z^{(1)}}{z^{(2)}} = W^{(2)} \times + b^{(2)}$ $\frac{z^{(2)}}{z^{(2)}} = W^{(2)} \times + b^{(2)}$ Son The Song - out the output of Mars?)