



deeplearning.ai

Deep Neural Networks

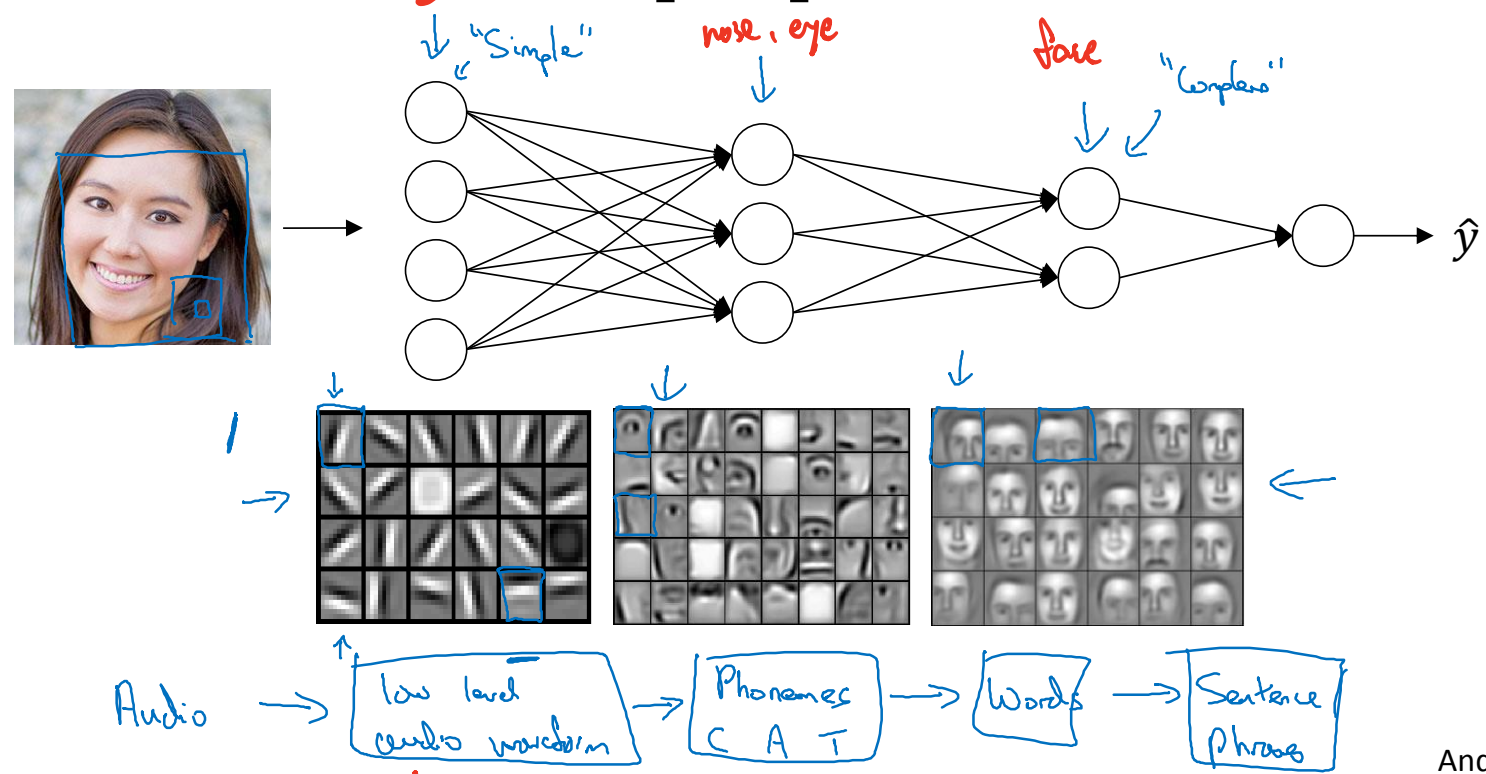
Why deep representations?

edge detector /

1. 1st layer: edge detector / 2. 2nd layer: edge detector / 3. 3rd layer: edge detector / 4. 4th layer: edge detector / 5. 5th layer: edge detector / 6. 6th layer: edge detector / 7. 7th layer: edge detector / 8. 8th layer: edge detector / 9. 9th layer: edge detector / 10. 10th layer: edge detector /

feature detector ← 一般从比较+感知下学习, 学习过程

Intuition about deep representation



Circuit theory and deep learning

电路
神经网络
hidden units Informally: There are functions you can compute with a “small” L-layer deep neural network that shallower networks require exponentially more hidden units to compute.

