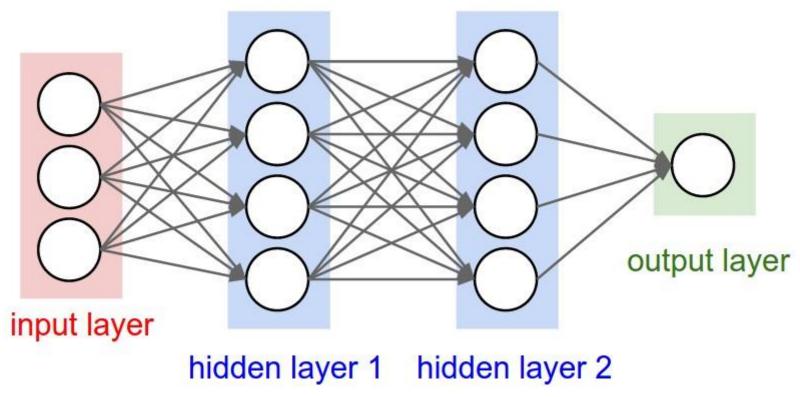
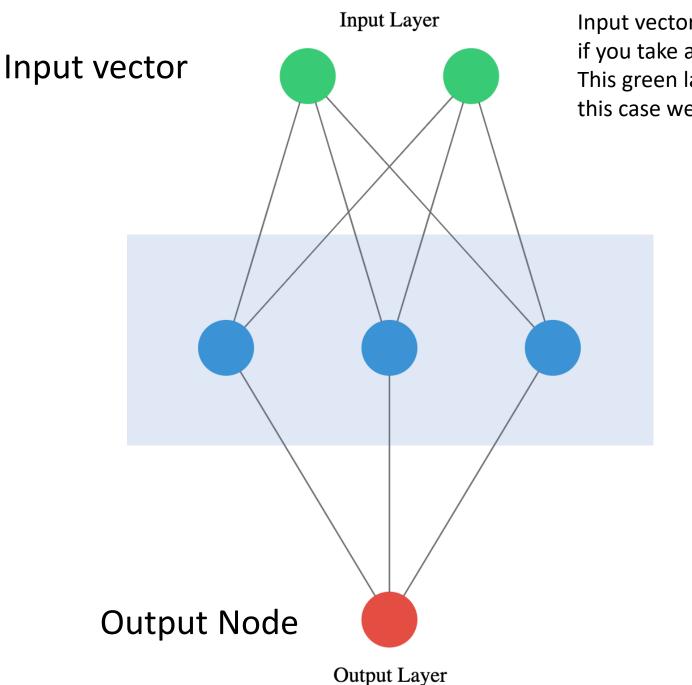
## Neural Network

Simple explanation: Any layer (blue) between the input (pink) and output (green) is called hidden



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Input vector could be just an image if you take an image that 28 x 28 pixels This green layer will have 784 circles. In this case we have just 2.

Hidden Layer In this case, we have just one layer

## Here is a rough procedure

- Take each image (say 28 x 28 pixels)
- Flatten them into a single vector of 784 in length
- Make them flow through the network

• Final red circle gives the probability of the image a car or not

I have shown only 2 but

imaging there are 784 green circles

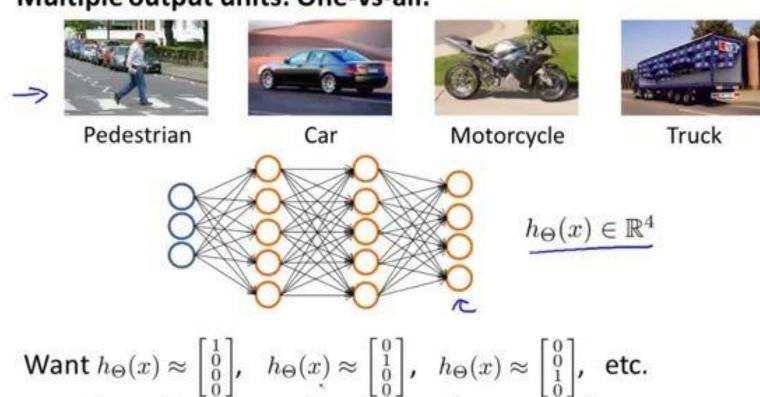


200	155	200	100	122	 	240	255	200
1	2	3	4	5		782	783	784

Hidden layers will the network learn the details of the image

Probability that the image belongs to a car (a number between 0 and 1)

## Multiple output units: One-vs-all.



Andrew Ng

when pedestrian when car when motorcycle