

# Perceptrons & Architecture

Month 3: Deep Learning Basics | Week 9: Neural Networks  
Foundations | Day 1

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## Theory & Concepts

**Watch:** 3Blue1Brown's But what is a Neural Network? (19 min). Concept: Neurons, Layers, Weights, Biases.

## Practice Exercises

**Paper:** Draw a 2-3-1 network. Write out the formula for the output of one neuron  $z = w \cdot x + b$ .

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Estimated Time: 2h

Completed: [ ]

Notes:

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