

A new programming paradigm

- Reading:** Before you begin: TensorFlow 2.0 and this course
10 min
- Video:** Introduction: A conversation with Andrew Ng
3 min
- Video:** A primer in machine learning
3 min
- Video:** The 'Hello World' of neural networks
5 min
- Reading:** From rules to data
10 min
- Video:** Working through 'Hello World' in TensorFlow and Python
3 min
- Reading:** Try it for yourself
10 min
- Quiz:** Week 1 Quiz
8 questions

Weekly Exercise - Your First Neural Network

- Reading:** Introduction to Google Colaboratory
10 min
- Get started with Google Colaboratory (Coding TensorFlow)
4 min
- Lab:** Exercise 1 (Housing Prices)
1h
- Programming Assignment:** Exercise 1 (Housing Prices)
3h
- Reading:** Week 1 Resources
10 min



Week 1 Resources

That brings you to the end of what you need to look at for Week 1. If you're eager to learn more, before we go to Week 2, there are some great resources you can check out:

- AI For Everyone is a non-technical course that will help you understand many of the AI technologies we will discuss later in this course, and help you spot opportunities in applying this technology to solve your problems. <https://www.deeplearning.ai/ai-for-everyone/>
- TensorFlow is available at [TensorFlow.org](https://www.tensorflow.org), and video updates from the TensorFlow team are at [youtube.com/tensorflow](https://www.youtube.com/tensorflow)

Play with a neural network right in the browser at <http://playground.tensorflow.org>. See if you can figure out the parameters to get the neural network to pattern match to the desired groups. The spiral is particularly challenging!

The 'Hello World' notebook that we used in this course is available on GitHub [here](#).

✓ Complete

Go to next item

