













## Multiclass Classifications

-  **Video:** A conversation with Andrew Ng  
3 min
-  **Video:** Moving from binary to multi-class classification  
44 sec
-  **Reading:** Introducing the Rock-Paper-Scissors dataset  
10 min
-  **Video:** Explore multi-class with Rock Paper Scissors dataset  
2 min
-  **Reading:** Check out the code!  
10 min
-  **Video:** Train a classifier with Rock Paper Scissors  
1 min
-  **Reading:** Try testing the classifier  
10 min
-  **Video:** Test the Rock Paper Scissors classifier  
2 min
-  **Reading:** What have we seen so far?  
10 min
-  **Quiz:** Week 4 Quiz  
8 questions

## Weekly Exercise- Multi-class classifier

## Optional: Ungraded Google Colaboratory environment

## Course 2 Wrap up



# Introducing the Rock-Paper-Scissors dataset

<http://www.laurencemoroney.com/rock-paper-scissors-dataset/>

Rock Paper Scissors is a dataset containing 2,892 images of diverse hands in Rock/Paper/Scissors poses. It is licensed [CC By 2.0](#) and available for all purposes, but it's intent is primarily for learning and research.

Rock Paper Scissors contains images from a variety of different hands, from different races, ages and genders, posed into Rock / Paper or Scissors and labelled as such. You can download the [training set here](#), and the [test set here](#). These images have all been generated using CGI techniques as an experiment in determining if a CGI-based dataset can be used for classification against real images. I also generated a few images that you can use for predictions. You can find them [here](#).

Note that all of this data is posed against a white background.

Each image is 300×300 pixels in 24-bit color

You'll see how this dataset can be used to build a multi-class classifier in the next video

✓ Complete

Go to next item

