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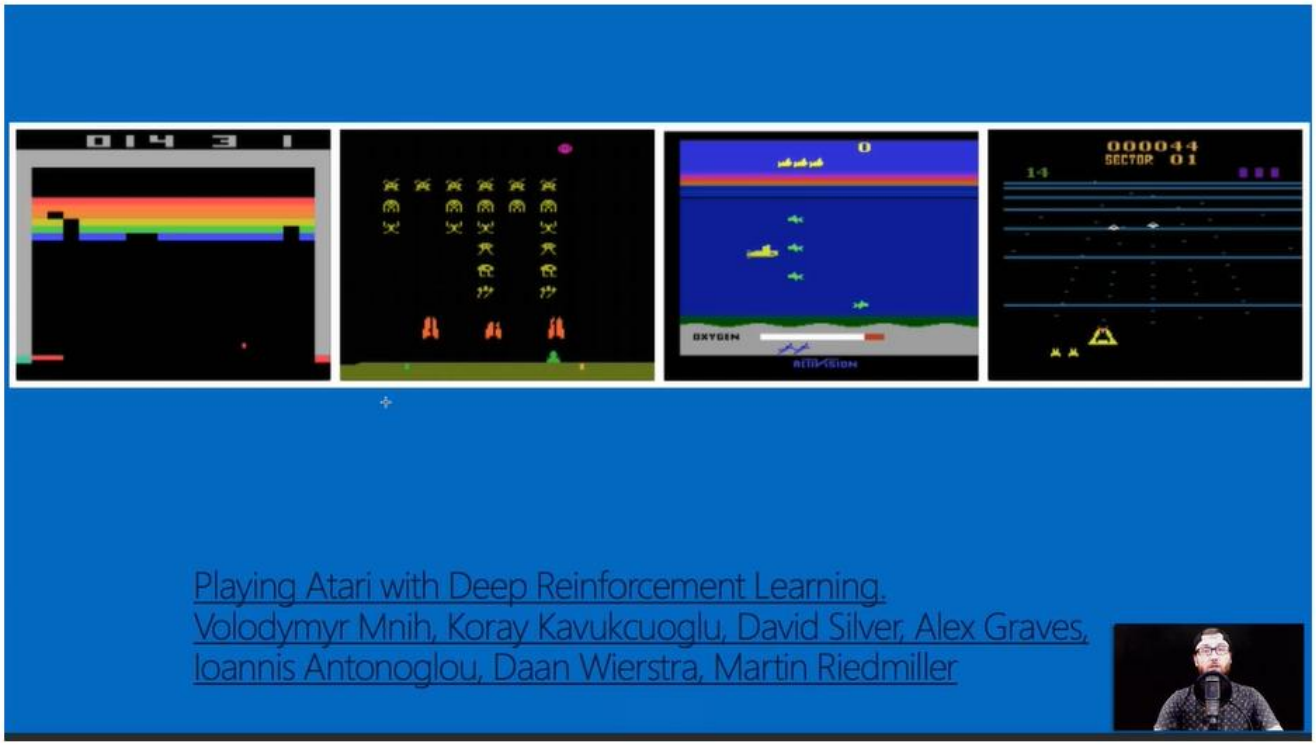
Convolutional Neural Networks

In this lesson, you will learn how convolutional neural networks function and how they are used to classify images.



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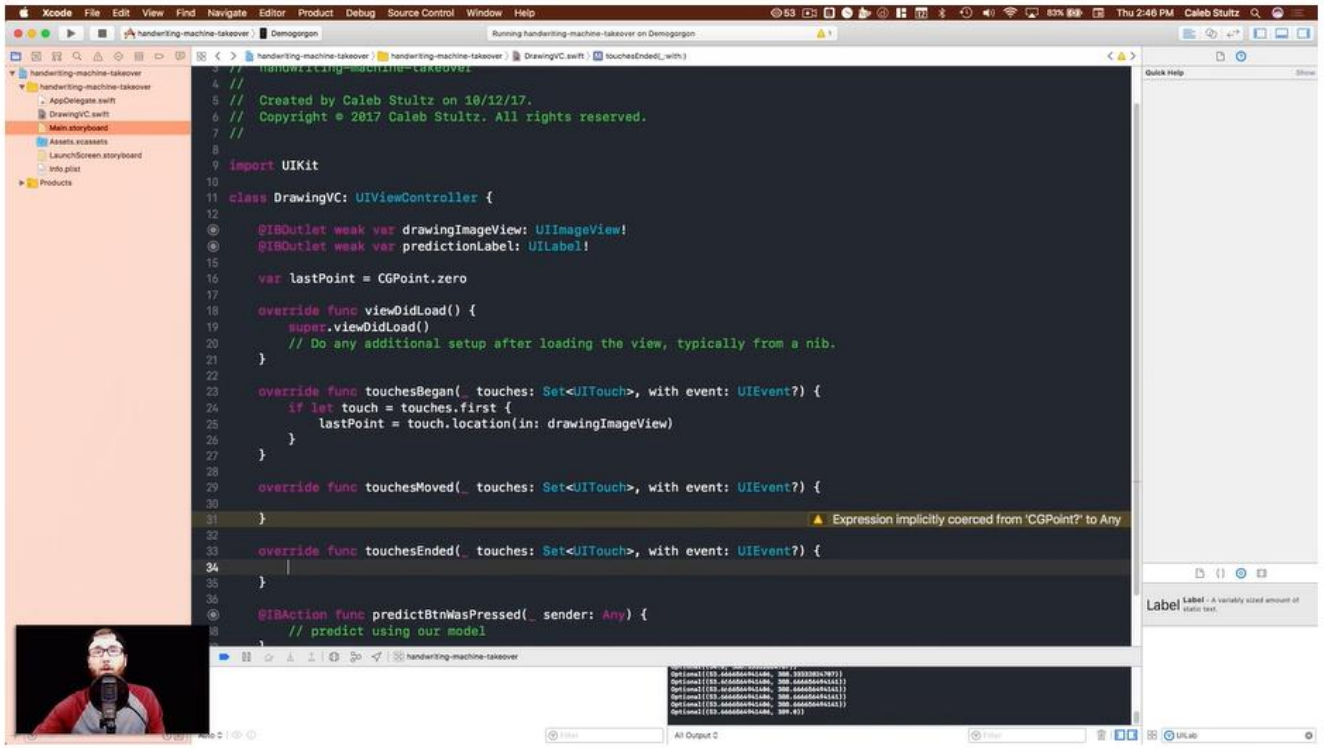
moved and ended functions are added to the VC file.



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Lesson Summary

- In this module you were shown how to build an app that can recognise handwriting, using the core ML model.
- A new Xcode project was set up; a black box, label and button were added to the view controller (VC) and configured.
- Instructional text was added to the label, to direct users to tap the Predict button.
- When a number is hand written in the app and the Predict button is tapped, this converts the handwritten image into a 28 x 28 pixel image which is matched against a repository of data.
- The user interface (UI) was set up to recognise handwriting input.
- The 'touch' began, moved and ended functions were added to the VC file.
- A 'draw line' function was added, to convert moving touch into a line or image.
- Values were entered to specify how the line or drawing appears, in terms of size, shape and colour.
- A function was entered to recognise when touch or drawing stops.
- Drawing was tested in the simulator and the result was successful.
- A function was added to remove the most recent drawing from the screen, when a new touch is started.
- Core ML and the Vision framework was used to implement the prediction function.

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