



## Concepts in Computer Vision



**Video:** Welcome to Course 3  
7 min



**Video:** Classification and Object Detection Intro  
4 min



**Video:** Segmentation Intro  
2 min



**Reading:** Pre-Requisite & References  
10 min



**Reading:** Connect with your mentors and fellow learners on Slack!  
10 min

## Transfer Learning

## Advanced Transfer Learning

## Object Localization and Detection

## Week 1 Quiz: Introduction and Concepts of Computer Vision

## Assignment: Bird Boxes



# Pre-Requisite & References

## Pre Requisite:

- [TensorFlow Developer Certificate Specialization](#).

## References:

- [Fully Convolutional Networks for Semantic Segmentation](#) (Long, Shelhamer & Darrell, 2014)

- [U-Net](#): Convolutional Networks for Biomedical Image Segmentation (Ronneberger, Fischer & Brox, 2015)

- [DeepLab](#): Semantic Image Segmentation with Deep Convolutional Nets, Atrous Convolution, and Fully Connected CRFs (Chen, Papandreou, Kokkinos, Murphy, and Yuille, 2016)

- [Mask R-CNN](#) (He, Gkioxari, Dollár & Girshick, 2017)

✓ Complete

Go to next item

