# YOLO Object Detection with Python Implementation

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# Computer Vision with Python

- Let’s now explore how to implement YOLOv3 with Python.
- We will be using an implementation of YOLOv3 that has been trained on the COCO dataset.

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- The COCO dataset has over 1.5 million object instances with 80 different object categories.
- We will use pre-trained model that has been trained on the COCO dataset and explore its capabilities.

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- Realistically it would take many, many hours of training using a high end GPU to achieve a reasonable model.
- Because of this, we will download the weights of the pre-trained network.

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- This network is hugely complex, meaning the actual **h5** file for the weights is over 200MB!
- Check the resource link in this lecture to download the file (may take some time due to internet)

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- Once you've downloaded the file, you will need to place it in the DATA directory of the YOLO folder.
- Then we have a created a notebook for you with easy to call functions.
- Let's walk you through this process.

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