

# Code Hierarchy - RetinaNet

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- Hyperparameters
- Resnet-50 Model
- Retinanet Model(Resnet50 as Backbone)
  - Feature Pyramid Network
  - Subnet Models(Regression & classification)
  - Retinanet Model
- Retinanet Box(Wrapper on Retinanet for Object Detection )
  - Generate Anchors
  - Regression & Clip Boxes
  - Filter Detection
  - Retinanet\_Box Model
- Loss Function
  - Focal Loss
  - Smooth L1 Loss
- Import libraries for Pascal VOC2007 Dataset
- Training Model
- Object Detection
  - Predication based on Retinanet Box
  - Object Detection Demo

**Blue Colour -> Own Implementation**

**Black colour -> Import from open source code**

Dataset:- Pascal VOC 2007