**Import Data**

1. All\_imgs, class\_count, class\_mapping

= Get\_data()

**Generate Ground Truth Anchor**

1. Data\_gen\_train

= Get\_anchor\_gt()

**Build the basic model**

1. Base\_layer

= nn.Nn\_base()

1. RPN

= nn.rpn()

1. Classifier

= nn.classifier()

**Incorporate the model into Keras Placeholder**

1. Model\_rpn

= Model(img\_input, RPN[:2]

1. Model\_classifier

=Model([img\_input,roi\_input], classifier)

1. Model\_all

= Model(([img\_input,roi\_input], RPN[:2] +classifier)