early stop =10

Create Tiny YOLOv3 model with 6 anchors and 3 classes.

Train on 6030 samples, val on 670 samples, with batch size 64.

Epoch 1/50

94/94 [==============================] - 495s 5s/step - loss: 257.3698 - val\_loss: 146.4866

Epoch 2/50

94/94 [==============================] - 490s 5s/step - loss: 34.4533 - val\_loss: 37.2048

Epoch 3/50

94/94 [==============================] - 496s 5s/step - loss: 24.0504 - val\_loss: 27.9037

Epoch 4/50

94/94 [==============================] - 500s 5s/step - loss: 19.3039 - val\_loss: 23.1168

Epoch 5/50

94/94 [==============================] - 498s 5s/step - loss: 16.1818 - val\_loss: 20.1509

Epoch 6/50

94/94 [==============================] - 499s 5s/step - loss: 14.1618 - val\_loss: 14.0489

Epoch 7/50

94/94 [==============================] - 502s 5s/step - loss: 12.3421 - val\_loss: 13.4377

Epoch 8/50

94/94 [==============================] - 502s 5s/step - loss: 11.2572 - val\_loss: 12.2611

Epoch 9/50

94/94 [==============================] - 504s 5s/step - loss: 10.1368 - val\_loss: 10.8642

Epoch 10/50

94/94 [==============================] - 509s 5s/step - loss: 9.6176 - val\_loss: 10.6112

Epoch 11/50

94/94 [==============================] - 515s 5s/step - loss: 9.2984 - val\_loss: 9.7677

Epoch 12/50

94/94 [==============================] - 515s 5s/step - loss: 8.5183 - val\_loss: 9.6067

Epoch 13/50

94/94 [==============================] - 511s 5s/step - loss: 8.5752 - val\_loss: 10.3333

Epoch 14/50

94/94 [==============================] - 511s 5s/step - loss: 8.1709 - val\_loss: 9.8205

Epoch 15/50

94/94 [==============================] - 515s 5s/step - loss: 7.9355 - val\_loss: 6.6182

Epoch 16/50

94/94 [==============================] - 515s 5s/step - loss: 7.6237 - val\_loss: 8.7270

Epoch 17/50

94/94 [==============================] - 510s 5s/step - loss: 7.4511 - val\_loss: 8.9858

Epoch 18/50

94/94 [==============================] - 505s 5s/step - loss: 7.3654 - val\_loss: 7.9090

Epoch 19/50

94/94 [==============================] - 507s 5s/step - loss: 7.2881 - val\_loss: 7.6718

Epoch 20/50

94/94 [==============================] - 505s 5s/step - loss: 7.2059 - val\_loss: 6.6046

Epoch 21/50

94/94 [==============================] - 509s 5s/step - loss: 6.9905 - val\_loss: 6.9011

Epoch 22/50

94/94 [==============================] - 502s 5s/step - loss: 6.8247 - val\_loss: 6.6785

Epoch 23/50

94/94 [==============================] - 504s 5s/step - loss: 6.6881 - val\_loss: 6.4183

Epoch 24/50

94/94 [==============================] - 504s 5s/step - loss: 6.7990 - val\_loss: 7.1541

Epoch 25/50

94/94 [==============================] - 508s 5s/step - loss: 6.6669 - val\_loss: 6.5107

Epoch 26/50

94/94 [==============================] - 500s 5s/step - loss: 6.4474 - val\_loss: 5.4066

Epoch 27/50

94/94 [==============================] - 501s 5s/step - loss: 6.3412 - val\_loss: 6.0468

Epoch 28/50

94/94 [==============================] - 500s 5s/step - loss: 6.5011 - val\_loss: 6.7154

Epoch 29/50

94/94 [==============================] - 499s 5s/step - loss: 6.3590 - val\_loss: 6.7380

Epoch 30/50

94/94 [==============================] - 500s 5s/step - loss: 6.1944 - val\_loss: 6.6568

Epoch 31/50

94/94 [==============================] - 499s 5s/step - loss: 6.1893 - val\_loss: 7.3388

Epoch 32/50

94/94 [==============================] - 503s 5s/step - loss: 6.0285 - val\_loss: 6.8591

Epoch 33/50

94/94 [==============================] - 507s 5s/step - loss: 6.1088 - val\_loss: 6.6947

Epoch 34/50

94/94 [==============================] - 503s 5s/step - loss: 6.1115 - val\_loss: 6.5936

Epoch 35/50

94/94 [==============================] - 502s 5s/step - loss: 6.0809 - val\_loss: 6.0319

Epoch 36/50

94/94 [==============================] - 486s 5s/step - loss: 5.8318 - val\_loss: 5.3586

Epoch 37/50

94/94 [==============================] - 486s 5s/step - loss: 5.9303 - val\_loss: 5.0599

Epoch 38/50

94/94 [==============================] - 486s 5s/step - loss: 5.9241 - val\_loss: 6.0917

Epoch 39/50

94/94 [==============================] - 483s 5s/step - loss: 5.9103 - val\_loss: 5.9828

Epoch 40/50

94/94 [==============================] - 486s 5s/step - loss: 5.8198 - val\_loss: 5.5986

Epoch 41/50

94/94 [==============================] - 487s 5s/step - loss: 5.7804 - val\_loss: 6.0526

Epoch 42/50

94/94 [==============================] - 488s 5s/step - loss: 5.6307 - val\_loss: 6.0199

Epoch 43/50

94/94 [==============================] - 487s 5s/step - loss: 5.6904 - val\_loss: 5.6924

Epoch 44/50

94/94 [==============================] - 488s 5s/step - loss: 5.6619 - val\_loss: 5.6031

Epoch 45/50

94/94 [==============================] - 485s 5s/step - loss: 5.6053 - val\_loss: 6.0826

Epoch 46/50

94/94 [==============================] - 483s 5s/step - loss: 5.5449 - val\_loss: 5.9203

Epoch 47/50

94/94 [==============================] - 497s 5s/step - loss: 5.5078 - val\_loss: 5.7167

Epoch 48/50

94/94 [==============================] - 497s 5s/step - loss: 5.4945 - val\_loss: 6.7461

Epoch 49/50

94/94 [==============================] - 496s 5s/step - loss: 5.4544 - val\_loss: 6.0304

Epoch 50/50

94/94 [==============================] - 494s 5s/step - loss: 5.5141 - val\_loss: 5.5043

Unfreeze all of the layers.

Train on 6030 samples, val on 670 samples, with batch size 16.

Epoch 51/150

376/376 [==============================] - 528s 1s/step - loss: 5.1560 - val\_loss: 5.8602

Epoch 52/150

376/376 [==============================] - 512s 1s/step - loss: 5.1412 - val\_loss: 5.9508

Epoch 53/150

376/376 [==============================] - 512s 1s/step - loss: 5.0141 - val\_loss: 3.8426

Epoch 54/150

376/376 [==============================] - 518s 1s/step - loss: 4.9874 - val\_loss: 4.8556

Epoch 55/150

376/376 [==============================] - 531s 1s/step - loss: 4.9331 - val\_loss: 4.3383

Epoch 56/150

376/376 [==============================] - 547s 1s/step - loss: 4.9003 - val\_loss: 4.5183

Epoch 00056: ReduceLROnPlateau reducing learning rate to 9.999999747378752e-06.

Epoch 57/150

376/376 [==============================] - 524s 1s/step - loss: 4.7747 - val\_loss: 6.1372

Epoch 58/150

376/376 [==============================] - 517s 1s/step - loss: 4.6831 - val\_loss: 4.2010

Epoch 59/150

376/376 [==============================] - 514s 1s/step - loss: 4.6617 - val\_loss: 4.2471

Epoch 00059: ReduceLROnPlateau reducing learning rate to 9.999999747378752e-07.

Epoch 60/150

376/376 [==============================] - 514s 1s/step - loss: 4.6606 - val\_loss: 4.2941

Epoch 61/150

376/376 [==============================] - 527s 1s/step - loss: 4.6723 - val\_loss: 6.1409

Epoch 62/150

376/376 [==============================] - 523s 1s/step - loss: 4.6783 - val\_loss: 4.6621

Epoch 00062: ReduceLROnPlateau reducing learning rate to 9.999999974752428e-08.

Epoch 63/150

376/376 [==============================] - 506s 1s/step - loss: 4.6511 - val\_loss: 4.6923

Epoch 00063: early stopping