Re-starting from epoch 70

Starting at epoch 70. LR=0.001

Checkpoint Path: drive/My Drive/Colab Notebooks/checkout\_currency/peruvian\_bill20190907T1609/mask\_rcnn\_peruvian\_bill\_{epoch:04d}.h5

Selecting layers to train

fpn\_c5p5 (Conv2D)

fpn\_c4p4 (Conv2D)

fpn\_c3p3 (Conv2D)

fpn\_c2p2 (Conv2D)

fpn\_p5 (Conv2D)

fpn\_p2 (Conv2D)

fpn\_p3 (Conv2D)

fpn\_p4 (Conv2D)

In model: rpn\_model

rpn\_conv\_shared (Conv2D)

rpn\_class\_raw (Conv2D)

rpn\_bbox\_pred (Conv2D)

mrcnn\_mask\_conv1 (TimeDistributed)

mrcnn\_mask\_bn1 (TimeDistributed)

mrcnn\_mask\_conv2 (TimeDistributed)

mrcnn\_mask\_bn2 (TimeDistributed)

mrcnn\_class\_conv1 (TimeDistributed)

mrcnn\_class\_bn1 (TimeDistributed)

mrcnn\_mask\_conv3 (TimeDistributed)

mrcnn\_mask\_bn3 (TimeDistributed)

mrcnn\_class\_conv2 (TimeDistributed)

mrcnn\_class\_bn2 (TimeDistributed)

mrcnn\_mask\_conv4 (TimeDistributed)

mrcnn\_mask\_bn4 (TimeDistributed)

mrcnn\_bbox\_fc (TimeDistributed)

mrcnn\_mask\_deconv (TimeDistributed)

mrcnn\_class\_logits (TimeDistributed)

mrcnn\_mask (TimeDistributed)

/usr/local/lib/python3.6/dist-packages/tensorflow/python/ops/gradients\_util.py:93: UserWarning: Converting sparse IndexedSlices to a dense Tensor of unknown shape. This may consume a large amount of memory.

"Converting sparse IndexedSlices to a dense Tensor of unknown shape. "

/usr/local/lib/python3.6/dist-packages/tensorflow/python/ops/gradients\_util.py:93: UserWarning: Converting sparse IndexedSlices to a dense Tensor of unknown shape. This may consume a large amount of memory.

"Converting sparse IndexedSlices to a dense Tensor of unknown shape. "

/usr/local/lib/python3.6/dist-packages/tensorflow/python/ops/gradients\_util.py:93: UserWarning: Converting sparse IndexedSlices to a dense Tensor of unknown shape. This may consume a large amount of memory.

"Converting sparse IndexedSlices to a dense Tensor of unknown shape. "

/usr/local/lib/python3.6/dist-packages/keras/engine/training\_generator.py:49: UserWarning: Using a generator with `use\_multiprocessing=True` and multiple workers may duplicate your data. Please consider using the `keras.utils.Sequence class.

UserWarning('Using a generator with `use\_multiprocessing=True`'

Epoch 71/110

644/644 [==============================] - 356s 553ms/step - loss: 0.5155 - rpn\_class\_loss: 3.2155e-04 - rpn\_bbox\_loss: 0.0232 - mrcnn\_class\_loss: 0.0059 - mrcnn\_bbox\_loss: 0.0089 - mrcnn\_mask\_loss: 0.4772 - val\_loss: 0.8718 - val\_rpn\_class\_loss: 6.5976e-04 - val\_rpn\_bbox\_loss: 0.2009 - val\_mrcnn\_class\_loss: 0.0105 - val\_mrcnn\_bbox\_loss: 0.0182 - val\_mrcnn\_mask\_loss: 0.6415

Epoch 72/110

644/644 [==============================] - 324s 504ms/step - loss: 0.4830 - rpn\_class\_loss: 5.1607e-04 - rpn\_bbox\_loss: 0.0250 - mrcnn\_class\_loss: 0.0074 - mrcnn\_bbox\_loss: 0.0119 - mrcnn\_mask\_loss: 0.4383 - val\_loss: 0.7083 - val\_rpn\_class\_loss: 8.5354e-04 - val\_rpn\_bbox\_loss: 0.0266 - val\_mrcnn\_class\_loss: 0.0061 - val\_mrcnn\_bbox\_loss: 0.0104 - val\_mrcnn\_mask\_loss: 0.6644

Epoch 73/110

644/644 [==============================] - 324s 504ms/step - loss: 0.4664 - rpn\_class\_loss: 5.3122e-04 - rpn\_bbox\_loss: 0.0212 - mrcnn\_class\_loss: 0.0076 - mrcnn\_bbox\_loss: 0.0112 - mrcnn\_mask\_loss: 0.4258 - val\_loss: 1.3298 - val\_rpn\_class\_loss: 5.8962e-04 - val\_rpn\_bbox\_loss: 0.1050 - val\_mrcnn\_class\_loss: 0.0067 - val\_mrcnn\_bbox\_loss: 0.0157 - val\_mrcnn\_mask\_loss: 1.2018

Epoch 74/110

644/644 [==============================] - 324s 503ms/step - loss: 0.5011 - rpn\_class\_loss: 3.4582e-04 - rpn\_bbox\_loss: 0.0222 - mrcnn\_class\_loss: 0.0057 - mrcnn\_bbox\_loss: 0.0096 - mrcnn\_mask\_loss: 0.4633 - val\_loss: 1.0980 - val\_rpn\_class\_loss: 4.5663e-04 - val\_rpn\_bbox\_loss: 0.1955 - val\_mrcnn\_class\_loss: 0.0069 - val\_mrcnn\_bbox\_loss: 0.0182 - val\_mrcnn\_mask\_loss: 0.8769

Epoch 75/110

644/644 [==============================] - 324s 504ms/step - loss: 0.5015 - rpn\_class\_loss: 4.0698e-04 - rpn\_bbox\_loss: 0.0299 - mrcnn\_class\_loss: 0.0059 - mrcnn\_bbox\_loss: 0.0089 - mrcnn\_mask\_loss: 0.4565 - val\_loss: 1.0414 - val\_rpn\_class\_loss: 3.4784e-04 - val\_rpn\_bbox\_loss: 0.0343 - val\_mrcnn\_class\_loss: 0.0062 - val\_mrcnn\_bbox\_loss: 0.0104 - val\_mrcnn\_mask\_loss: 0.9902

Epoch 76/110

644/644 [==============================] - 324s 503ms/step - loss: 0.4647 - rpn\_class\_loss: 4.0180e-04 - rpn\_bbox\_loss: 0.0204 - mrcnn\_class\_loss: 0.0061 - mrcnn\_bbox\_loss: 0.0112 - mrcnn\_mask\_loss: 0.4266 - val\_loss: 0.7220 - val\_rpn\_class\_loss: 7.4387e-04 - val\_rpn\_bbox\_loss: 0.0800 - val\_mrcnn\_class\_loss: 0.0087 - val\_mrcnn\_bbox\_loss: 0.0152 - val\_mrcnn\_mask\_loss: 0.6174

Epoch 77/110

644/644 [==============================] - 325s 505ms/step - loss: 0.4169 - rpn\_class\_loss: 4.4978e-04 - rpn\_bbox\_loss: 0.0222 - mrcnn\_class\_loss: 0.0053 - mrcnn\_bbox\_loss: 0.0096 - mrcnn\_mask\_loss: 0.3794 - val\_loss: 0.9910 - val\_rpn\_class\_loss: 1.4243e-04 - val\_rpn\_bbox\_loss: 0.0249 - val\_mrcnn\_class\_loss: 0.0044 - val\_mrcnn\_bbox\_loss: 0.0108 - val\_mrcnn\_mask\_loss: 0.9508

Epoch 78/110

644/644 [==============================] - 325s 504ms/step - loss: 0.4932 - rpn\_class\_loss: 3.8270e-04 - rpn\_bbox\_loss: 0.0210 - mrcnn\_class\_loss: 0.0050 - mrcnn\_bbox\_loss: 0.0102 - mrcnn\_mask\_loss: 0.4565 - val\_loss: 0.8372 - val\_rpn\_class\_loss: 2.1375e-04 - val\_rpn\_bbox\_loss: 0.0293 - val\_mrcnn\_class\_loss: 0.0060 - val\_mrcnn\_bbox\_loss: 0.0136 - val\_mrcnn\_mask\_loss: 0.7880

Epoch 79/110

644/644 [==============================] - 325s 504ms/step - loss: 0.4071 - rpn\_class\_loss: 3.1090e-04 - rpn\_bbox\_loss: 0.0268 - mrcnn\_class\_loss: 0.0043 - mrcnn\_bbox\_loss: 0.0089 - mrcnn\_mask\_loss: 0.3668 - val\_loss: 1.0497 - val\_rpn\_class\_loss: 7.8504e-04 - val\_rpn\_bbox\_loss: 0.2235 - val\_mrcnn\_class\_loss: 0.0060 - val\_mrcnn\_bbox\_loss: 0.0171 - val\_mrcnn\_mask\_loss: 0.8022

Epoch 80/110

644/644 [==============================] - 325s 504ms/step - loss: 0.4305 - rpn\_class\_loss: 4.0243e-04 - rpn\_bbox\_loss: 0.0229 - mrcnn\_class\_loss: 0.0051 - mrcnn\_bbox\_loss: 0.0096 - mrcnn\_mask\_loss: 0.3925 - val\_loss: 0.9891 - val\_rpn\_class\_loss: 7.5536e-04 - val\_rpn\_bbox\_loss: 0.0558 - val\_mrcnn\_class\_loss: 0.0065 - val\_mrcnn\_bbox\_loss: 0.0190 - val\_mrcnn\_mask\_loss: 0.9070

Epoch 81/110

644/644 [==============================] - 324s 504ms/step - loss: 0.3829 - rpn\_class\_loss: 3.3065e-04 - rpn\_bbox\_loss: 0.0205 - mrcnn\_class\_loss: 0.0056 - mrcnn\_bbox\_loss: 0.0094 - mrcnn\_mask\_loss: 0.3470 - val\_loss: 1.1246 - val\_rpn\_class\_loss: 7.3478e-04 - val\_rpn\_bbox\_loss: 0.1138 - val\_mrcnn\_class\_loss: 0.0081 - val\_mrcnn\_bbox\_loss: 0.0140 - val\_mrcnn\_mask\_loss: 0.9879

Epoch 82/110

644/644 [==============================] - 325s 504ms/step - loss: 0.4014 - rpn\_class\_loss: 2.6923e-04 - rpn\_bbox\_loss: 0.0252 - mrcnn\_class\_loss: 0.0052 - mrcnn\_bbox\_loss: 0.0105 - mrcnn\_mask\_loss: 0.3603 - val\_loss: 1.3480 - val\_rpn\_class\_loss: 0.0011 - val\_rpn\_bbox\_loss: 0.1967 - val\_mrcnn\_class\_loss: 0.0051 - val\_mrcnn\_bbox\_loss: 0.0162 - val\_mrcnn\_mask\_loss: 1.1291

Epoch 83/110

644/644 [==============================] - 325s 504ms/step - loss: 0.3586 - rpn\_class\_loss: 2.2379e-04 - rpn\_bbox\_loss: 0.0201 - mrcnn\_class\_loss: 0.0051 - mrcnn\_bbox\_loss: 0.0087 - mrcnn\_mask\_loss: 0.3245 - val\_loss: 0.9093 - val\_rpn\_class\_loss: 9.5045e-04 - val\_rpn\_bbox\_loss: 0.0917 - val\_mrcnn\_class\_loss: 0.0055 - val\_mrcnn\_bbox\_loss: 0.0138 - val\_mrcnn\_mask\_loss: 0.7974

Epoch 84/110

644/644 [==============================] - 325s 504ms/step - loss: 0.3790 - rpn\_class\_loss: 2.6811e-04 - rpn\_bbox\_loss: 0.0208 - mrcnn\_class\_loss: 0.0043 - mrcnn\_bbox\_loss: 0.0081 - mrcnn\_mask\_loss: 0.3455 - val\_loss: 1.2750 - val\_rpn\_class\_loss: 0.0013 - val\_rpn\_bbox\_loss: 0.1794 - val\_mrcnn\_class\_loss: 0.0077 - val\_mrcnn\_bbox\_loss: 0.0158 - val\_mrcnn\_mask\_loss: 1.0708

Epoch 85/110

644/644 [==============================] - 325s 505ms/step - loss: 0.3473 - rpn\_class\_loss: 3.1650e-04 - rpn\_bbox\_loss: 0.0296 - mrcnn\_class\_loss: 0.0047 - mrcnn\_bbox\_loss: 0.0083 - mrcnn\_mask\_loss: 0.3045 - val\_loss: 1.2103 - val\_rpn\_class\_loss: 2.7380e-04 - val\_rpn\_bbox\_loss: 0.0340 - val\_mrcnn\_class\_loss: 0.0052 - val\_mrcnn\_bbox\_loss: 0.0130 - val\_mrcnn\_mask\_loss: 1.1578

Epoch 86/110

644/644 [==============================] - 325s 504ms/step - loss: 0.3275 - rpn\_class\_loss: 2.6549e-04 - rpn\_bbox\_loss: 0.0216 - mrcnn\_class\_loss: 0.0049 - mrcnn\_bbox\_loss: 0.0087 - mrcnn\_mask\_loss: 0.2920 - val\_loss: 1.1991 - val\_rpn\_class\_loss: 2.0730e-04 - val\_rpn\_bbox\_loss: 0.0321 - val\_mrcnn\_class\_loss: 0.0052 - val\_mrcnn\_bbox\_loss: 0.0100 - val\_mrcnn\_mask\_loss: 1.1516

Epoch 87/110

644/644 [==============================] - 325s 505ms/step - loss: 0.2590 - rpn\_class\_loss: 2.7577e-04 - rpn\_bbox\_loss: 0.0244 - mrcnn\_class\_loss: 0.0046 - mrcnn\_bbox\_loss: 0.0076 - mrcnn\_mask\_loss: 0.2221 - val\_loss: 1.2234 - val\_rpn\_class\_loss: 2.9358e-04 - val\_rpn\_bbox\_loss: 0.0253 - val\_mrcnn\_class\_loss: 0.0090 - val\_mrcnn\_bbox\_loss: 0.0129 - val\_mrcnn\_mask\_loss: 1.1759

Epoch 88/110

644/644 [==============================] - 325s 505ms/step - loss: 0.3493 - rpn\_class\_loss: 3.0703e-04 - rpn\_bbox\_loss: 0.0209 - mrcnn\_class\_loss: 0.0050 - mrcnn\_bbox\_loss: 0.0091 - mrcnn\_mask\_loss: 0.3140 - val\_loss: 1.4114 - val\_rpn\_class\_loss: 0.0016 - val\_rpn\_bbox\_loss: 0.2954 - val\_mrcnn\_class\_loss: 0.0070 - val\_mrcnn\_bbox\_loss: 0.0135 - val\_mrcnn\_mask\_loss: 1.0939

Epoch 89/110

644/644 [==============================] - 325s 505ms/step - loss: 0.2658 - rpn\_class\_loss: 2.3110e-04 - rpn\_bbox\_loss: 0.0194 - mrcnn\_class\_loss: 0.0044 - mrcnn\_bbox\_loss: 0.0081 - mrcnn\_mask\_loss: 0.2337 - val\_loss: 1.2771 - val\_rpn\_class\_loss: 5.8432e-04 - val\_rpn\_bbox\_loss: 0.1322 - val\_mrcnn\_class\_loss: 0.0036 - val\_mrcnn\_bbox\_loss: 0.0144 - val\_mrcnn\_mask\_loss: 1.1264

Epoch 90/110

644/644 [==============================] - 325s 504ms/step - loss: 0.2786 - rpn\_class\_loss: 2.8471e-04 - rpn\_bbox\_loss: 0.0199 - mrcnn\_class\_loss: 0.0048 - mrcnn\_bbox\_loss: 0.0082 - mrcnn\_mask\_loss: 0.2453 - val\_loss: 1.7013 - val\_rpn\_class\_loss: 2.8137e-04 - val\_rpn\_bbox\_loss: 0.0478 - val\_mrcnn\_class\_loss: 0.0089 - val\_mrcnn\_bbox\_loss: 0.0121 - val\_mrcnn\_mask\_loss: 1.6322

Epoch 91/110

644/644 [==============================] - 325s 505ms/step - loss: 0.2347 - rpn\_class\_loss: 3.4163e-04 - rpn\_bbox\_loss: 0.0207 - mrcnn\_class\_loss: 0.0065 - mrcnn\_bbox\_loss: 0.0077 - mrcnn\_mask\_loss: 0.1995 - val\_loss: 1.9898 - val\_rpn\_class\_loss: 2.3993e-04 - val\_rpn\_bbox\_loss: 0.0643 - val\_mrcnn\_class\_loss: 0.0088 - val\_mrcnn\_bbox\_loss: 0.0133 - val\_mrcnn\_mask\_loss: 1.9033

Epoch 92/110

644/644 [==============================] - 325s 504ms/step - loss: 0.2769 - rpn\_class\_loss: 3.0117e-04 - rpn\_bbox\_loss: 0.0244 - mrcnn\_class\_loss: 0.0049 - mrcnn\_bbox\_loss: 0.0090 - mrcnn\_mask\_loss: 0.2383 - val\_loss: 1.7139 - val\_rpn\_class\_loss: 2.8295e-04 - val\_rpn\_bbox\_loss: 0.0548 - val\_mrcnn\_class\_loss: 0.0114 - val\_mrcnn\_bbox\_loss: 0.0143 - val\_mrcnn\_mask\_loss: 1.6331

Epoch 93/110

644/644 [==============================] - 324s 503ms/step - loss: 0.2204 - rpn\_class\_loss: 2.2698e-04 - rpn\_bbox\_loss: 0.0230 - mrcnn\_class\_loss: 0.0041 - mrcnn\_bbox\_loss: 0.0069 - mrcnn\_mask\_loss: 0.1861 - val\_loss: 1.5907 - val\_rpn\_class\_loss: 6.8811e-04 - val\_rpn\_bbox\_loss: 0.0896 - val\_mrcnn\_class\_loss: 0.0072 - val\_mrcnn\_bbox\_loss: 0.0100 - val\_mrcnn\_mask\_loss: 1.4832

Epoch 94/110

644/644 [==============================] - 324s 504ms/step - loss: 0.2326 - rpn\_class\_loss: 3.8688e-04 - rpn\_bbox\_loss: 0.0206 - mrcnn\_class\_loss: 0.0053 - mrcnn\_bbox\_loss: 0.0085 - mrcnn\_mask\_loss: 0.1977 - val\_loss: 1.5896 - val\_rpn\_class\_loss: 4.6813e-04 - val\_rpn\_bbox\_loss: 0.0775 - val\_mrcnn\_class\_loss: 0.0097 - val\_mrcnn\_bbox\_loss: 0.0139 - val\_mrcnn\_mask\_loss: 1.4880

Epoch 95/110

644/644 [==============================] - 324s 504ms/step - loss: 0.1969 - rpn\_class\_loss: 3.2005e-04 - rpn\_bbox\_loss: 0.0207 - mrcnn\_class\_loss: 0.0057 - mrcnn\_bbox\_loss: 0.0080 - mrcnn\_mask\_loss: 0.1621 - val\_loss: 1.4967 - val\_rpn\_class\_loss: 4.0147e-04 - val\_rpn\_bbox\_loss: 0.0677 - val\_mrcnn\_class\_loss: 0.0044 - val\_mrcnn\_bbox\_loss: 0.0091 - val\_mrcnn\_mask\_loss: 1.4152

Epoch 96/110

644/644 [==============================] - 324s 504ms/step - loss: 0.2113 - rpn\_class\_loss: 3.2921e-04 - rpn\_bbox\_loss: 0.0220 - mrcnn\_class\_loss: 0.0055 - mrcnn\_bbox\_loss: 0.0082 - mrcnn\_mask\_loss: 0.1753 - val\_loss: 1.9686 - val\_rpn\_class\_loss: 5.6148e-04 - val\_rpn\_bbox\_loss: 0.0634 - val\_mrcnn\_class\_loss: 0.0054 - val\_mrcnn\_bbox\_loss: 0.0093 - val\_mrcnn\_mask\_loss: 1.8900

Epoch 97/110

644/644 [==============================] - 325s 504ms/step - loss: 0.1855 - rpn\_class\_loss: 2.7110e-04 - rpn\_bbox\_loss: 0.0266 - mrcnn\_class\_loss: 0.0057 - mrcnn\_bbox\_loss: 0.0080 - mrcnn\_mask\_loss: 0.1449 - val\_loss: 1.8058 - val\_rpn\_class\_loss: 0.0016 - val\_rpn\_bbox\_loss: 0.2143 - val\_mrcnn\_class\_loss: 0.0082 - val\_mrcnn\_bbox\_loss: 0.0138 - val\_mrcnn\_mask\_loss: 1.5679

Epoch 98/110

644/644 [==============================] - 325s 505ms/step - loss: 0.1844 - rpn\_class\_loss: 2.7911e-04 - rpn\_bbox\_loss: 0.0225 - mrcnn\_class\_loss: 0.0039 - mrcnn\_bbox\_loss: 0.0065 - mrcnn\_mask\_loss: 0.1512 - val\_loss: 1.8168 - val\_rpn\_class\_loss: 1.6664e-04 - val\_rpn\_bbox\_loss: 0.0615 - val\_mrcnn\_class\_loss: 0.0047 - val\_mrcnn\_bbox\_loss: 0.0110 - val\_mrcnn\_mask\_loss: 1.7394

Epoch 99/110

644/644 [==============================] - 325s 504ms/step - loss: 0.1570 - rpn\_class\_loss: 1.9941e-04 - rpn\_bbox\_loss: 0.0241 - mrcnn\_class\_loss: 0.0037 - mrcnn\_bbox\_loss: 0.0066 - mrcnn\_mask\_loss: 0.1225 - val\_loss: 1.7196 - val\_rpn\_class\_loss: 1.8925e-04 - val\_rpn\_bbox\_loss: 0.0368 - val\_mrcnn\_class\_loss: 0.0046 - val\_mrcnn\_bbox\_loss: 0.0110 - val\_mrcnn\_mask\_loss: 1.6670

Epoch 100/110

644/644 [==============================] - 325s 505ms/step - loss: 0.1981 - rpn\_class\_loss: 2.7766e-04 - rpn\_bbox\_loss: 0.0237 - mrcnn\_class\_loss: 0.0035 - mrcnn\_bbox\_loss: 0.0073 - mrcnn\_mask\_loss: 0.1634 - val\_loss: 2.2069 - val\_rpn\_class\_loss: 8.1697e-04 - val\_rpn\_bbox\_loss: 0.2559 - val\_mrcnn\_class\_loss: 0.0061 - val\_mrcnn\_bbox\_loss: 0.0123 - val\_mrcnn\_mask\_loss: 1.9317

Epoch 101/110

644/644 [==============================] - 325s 505ms/step - loss: 0.1310 - rpn\_class\_loss: 2.7275e-04 - rpn\_bbox\_loss: 0.0268 - mrcnn\_class\_loss: 0.0045 - mrcnn\_bbox\_loss: 0.0084 - mrcnn\_mask\_loss: 0.0910 - val\_loss: 2.3293 - val\_rpn\_class\_loss: 3.5864e-04 - val\_rpn\_bbox\_loss: 0.0480 - val\_mrcnn\_class\_loss: 0.0045 - val\_mrcnn\_bbox\_loss: 0.0076 - val\_mrcnn\_mask\_loss: 2.2688

Epoch 102/110

644/644 [==============================] - 324s 504ms/step - loss: 0.1702 - rpn\_class\_loss: 3.3564e-04 - rpn\_bbox\_loss: 0.0253 - mrcnn\_class\_loss: 0.0039 - mrcnn\_bbox\_loss: 0.0071 - mrcnn\_mask\_loss: 0.1336 - val\_loss: 1.6639 - val\_rpn\_class\_loss: 6.4881e-04 - val\_rpn\_bbox\_loss: 0.0909 - val\_mrcnn\_class\_loss: 0.0067 - val\_mrcnn\_bbox\_loss: 0.0123 - val\_mrcnn\_mask\_loss: 1.5533

Epoch 103/110

644/644 [==============================] - 324s 504ms/step - loss: 0.1422 - rpn\_class\_loss: 2.5231e-04 - rpn\_bbox\_loss: 0.0252 - mrcnn\_class\_loss: 0.0042 - mrcnn\_bbox\_loss: 0.0081 - mrcnn\_mask\_loss: 0.1044 - val\_loss: 2.6073 - val\_rpn\_class\_loss: 5.6965e-04 - val\_rpn\_bbox\_loss: 0.2611 - val\_mrcnn\_class\_loss: 0.0057 - val\_mrcnn\_bbox\_loss: 0.0145 - val\_mrcnn\_mask\_loss: 2.3254

Epoch 104/110

644/644 [==============================] - 324s 503ms/step - loss: 0.1372 - rpn\_class\_loss: 3.9192e-04 - rpn\_bbox\_loss: 0.0179 - mrcnn\_class\_loss: 0.0040 - mrcnn\_bbox\_loss: 0.0063 - mrcnn\_mask\_loss: 0.1086 - val\_loss: 1.9314 - val\_rpn\_class\_loss: 0.0010 - val\_rpn\_bbox\_loss: 0.2263 - val\_mrcnn\_class\_loss: 0.0044 - val\_mrcnn\_bbox\_loss: 0.0093 - val\_mrcnn\_mask\_loss: 1.6904

Epoch 105/110

644/644 [==============================] - 325s 504ms/step - loss: 0.1232 - rpn\_class\_loss: 3.1766e-04 - rpn\_bbox\_loss: 0.0210 - mrcnn\_class\_loss: 0.0036 - mrcnn\_bbox\_loss: 0.0066 - mrcnn\_mask\_loss: 0.0916 - val\_loss: 1.7008 - val\_rpn\_class\_loss: 2.2847e-04 - val\_rpn\_bbox\_loss: 0.0249 - val\_mrcnn\_class\_loss: 0.0040 - val\_mrcnn\_bbox\_loss: 0.0116 - val\_mrcnn\_mask\_loss: 1.6601

Epoch 106/110

644/644 [==============================] - 325s 504ms/step - loss: 0.1378 - rpn\_class\_loss: 2.6521e-04 - rpn\_bbox\_loss: 0.0212 - mrcnn\_class\_loss: 0.0043 - mrcnn\_bbox\_loss: 0.0071 - mrcnn\_mask\_loss: 0.1049 - val\_loss: 2.7577 - val\_rpn\_class\_loss: 3.1898e-04 - val\_rpn\_bbox\_loss: 0.0561 - val\_mrcnn\_class\_loss: 0.0099 - val\_mrcnn\_bbox\_loss: 0.0138 - val\_mrcnn\_mask\_loss: 2.6775

Epoch 107/110

644/644 [==============================] - 325s 505ms/step - loss: 0.1033 - rpn\_class\_loss: 2.2467e-04 - rpn\_bbox\_loss: 0.0201 - mrcnn\_class\_loss: 0.0036 - mrcnn\_bbox\_loss: 0.0074 - mrcnn\_mask\_loss: 0.0720 - val\_loss: 2.0073 - val\_rpn\_class\_loss: 5.6748e-04 - val\_rpn\_bbox\_loss: 0.0980 - val\_mrcnn\_class\_loss: 0.0060 - val\_mrcnn\_bbox\_loss: 0.0082 - val\_mrcnn\_mask\_loss: 1.8945

Epoch 108/110

644/644 [==============================] - 324s 503ms/step - loss: 0.1149 - rpn\_class\_loss: 2.7622e-04 - rpn\_bbox\_loss: 0.0214 - mrcnn\_class\_loss: 0.0035 - mrcnn\_bbox\_loss: 0.0068 - mrcnn\_mask\_loss: 0.0829 - val\_loss: 2.5698 - val\_rpn\_class\_loss: 6.8642e-04 - val\_rpn\_bbox\_loss: 0.0403 - val\_mrcnn\_class\_loss: 0.0085 - val\_mrcnn\_bbox\_loss: 0.0116 - val\_mrcnn\_mask\_loss: 2.5087

Epoch 109/110

644/644 [==============================] - 325s 504ms/step - loss: 0.1061 - rpn\_class\_loss: 4.4783e-04 - rpn\_bbox\_loss: 0.0230 - mrcnn\_class\_loss: 0.0044 - mrcnn\_bbox\_loss: 0.0065 - mrcnn\_mask\_loss: 0.0718 - val\_loss: 1.9139 - val\_rpn\_class\_loss: 8.1542e-04 - val\_rpn\_bbox\_loss: 0.3397 - val\_mrcnn\_class\_loss: 0.0072 - val\_mrcnn\_bbox\_loss: 0.0112 - val\_mrcnn\_mask\_loss: 1.5549

Epoch 110/110

644/644 [==============================] - 325s 504ms/step - loss: 0.1120 - rpn\_class\_loss: 3.7407e-04 - rpn\_bbox\_loss: 0.0236 - mrcnn\_class\_loss: 0.0044 - mrcnn\_bbox\_loss: 0.0065 - mrcnn\_mask\_loss: 0.0771 - val\_loss: 1.9629 - val\_rpn\_class\_loss: 5.6465e-04 - val\_rpn\_bbox\_loss: 0.1653 - val\_mrcnn\_class\_loss: 0.0060 - val\_mrcnn\_bbox\_loss: 0.0129 - val\_mrcnn\_mask\_loss: 1.7782