conv2\_block3\_1\_bn (BatchNormali (None, 32, 32, 128) 512 conv2\_block3\_1\_conv[0][0]

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conv2\_block3\_1\_relu (Activation (None, 32, 32, 128) 0 conv2\_block3\_1\_bn[0][0]

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conv2\_block3\_2\_conv (Conv2D) (None, 32, 32, 32) 36864 conv2\_block3\_1\_relu[0][0]

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conv2\_block3\_concat (Concatenat (None, 32, 32, 160) 0 conv2\_block2\_concat[0][0]

conv2\_block3\_2\_conv[0][0]

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conv2\_block4\_0\_bn (BatchNormali (None, 32, 32, 160) 640 conv2\_block3\_concat[0][0]

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conv2\_block4\_0\_relu (Activation (None, 32, 32, 160) 0 conv2\_block4\_0\_bn[0][0]

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conv2\_block4\_1\_conv (Conv2D) (None, 32, 32, 128) 20480 conv2\_block4\_0\_relu[0][0]

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conv2\_block4\_1\_bn (BatchNormali (None, 32, 32, 128) 512 conv2\_block4\_1\_conv[0][0]

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conv2\_block4\_1\_relu (Activation (None, 32, 32, 128) 0 conv2\_block4\_1\_bn[0][0]

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conv2\_block4\_2\_conv (Conv2D) (None, 32, 32, 32) 36864 conv2\_block4\_1\_relu[0][0]

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conv2\_block4\_concat (Concatenat (None, 32, 32, 192) 0 conv2\_block3\_concat[0][0]

conv2\_block4\_2\_conv[0][0]

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conv2\_block5\_0\_bn (BatchNormali (None, 32, 32, 192) 768 conv2\_block4\_concat[0][0]

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conv2\_block5\_0\_relu (Activation (None, 32, 32, 192) 0 conv2\_block5\_0\_bn[0][0]

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conv2\_block5\_1\_conv (Conv2D) (None, 32, 32, 128) 24576 conv2\_block5\_0\_relu[0][0]

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conv2\_block5\_1\_bn (BatchNormali (None, 32, 32, 128) 512 conv2\_block5\_1\_conv[0][0]

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conv2\_block5\_1\_relu (Activation (None, 32, 32, 128) 0 conv2\_block5\_1\_bn[0][0]

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conv2\_block5\_2\_conv (Conv2D) (None, 32, 32, 32) 36864 conv2\_block5\_1\_relu[0][0]

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conv2\_block5\_concat (Concatenat (None, 32, 32, 224) 0 conv2\_block4\_concat[0][0]

conv2\_block5\_2\_conv[0][0]

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conv2\_block6\_0\_bn (BatchNormali (None, 32, 32, 224) 896 conv2\_block5\_concat[0][0]

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conv2\_block6\_0\_relu (Activation (None, 32, 32, 224) 0 conv2\_block6\_0\_bn[0][0]

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conv2\_block6\_1\_conv (Conv2D) (None, 32, 32, 128) 28672 conv2\_block6\_0\_relu[0][0]

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conv2\_block6\_1\_bn (BatchNormali (None, 32, 32, 128) 512 conv2\_block6\_1\_conv[0][0]

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conv2\_block6\_1\_relu (Activation (None, 32, 32, 128) 0 conv2\_block6\_1\_bn[0][0]

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conv2\_block6\_2\_conv (Conv2D) (None, 32, 32, 32) 36864 conv2\_block6\_1\_relu[0][0]

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conv2\_block6\_concat (Concatenat (None, 32, 32, 256) 0 conv2\_block5\_concat[0][0]

conv2\_block6\_2\_conv[0][0]

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pool2\_bn (BatchNormalization) (None, 32, 32, 256) 1024 conv2\_block6\_concat[0][0]

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pool2\_relu (Activation) (None, 32, 32, 256) 0 pool2\_bn[0][0]

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pool2\_conv (Conv2D) (None, 32, 32, 128) 32768 pool2\_relu[0][0]

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pool2\_pool (AveragePooling2D) (None, 16, 16, 128) 0 pool2\_conv[0][0]

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conv3\_block1\_0\_bn (BatchNormali (None, 16, 16, 128) 512 pool2\_pool[0][0]

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conv3\_block1\_0\_relu (Activation (None, 16, 16, 128) 0 conv3\_block1\_0\_bn[0][0]

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conv3\_block1\_1\_conv (Conv2D) (None, 16, 16, 128) 16384 conv3\_block1\_0\_relu[0][0]

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conv3\_block1\_1\_bn (BatchNormali (None, 16, 16, 128) 512 conv3\_block1\_1\_conv[0][0]

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conv3\_block1\_1\_relu (Activation (None, 16, 16, 128) 0 conv3\_block1\_1\_bn[0][0]

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conv3\_block1\_2\_conv (Conv2D) (None, 16, 16, 32) 36864 conv3\_block1\_1\_relu[0][0]

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conv3\_block1\_concat (Concatenat (None, 16, 16, 160) 0 pool2\_pool[0][0]

conv3\_block1\_2\_conv[0][0]

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conv3\_block2\_0\_bn (BatchNormali (None, 16, 16, 160) 640 conv3\_block1\_concat[0][0]

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conv3\_block2\_0\_relu (Activation (None, 16, 16, 160) 0 conv3\_block2\_0\_bn[0][0]

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conv3\_block2\_1\_conv (Conv2D) (None, 16, 16, 128) 20480 conv3\_block2\_0\_relu[0][0]

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conv3\_block2\_1\_bn (BatchNormali (None, 16, 16, 128) 512 conv3\_block2\_1\_conv[0][0]

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conv3\_block2\_1\_relu (Activation (None, 16, 16, 128) 0 conv3\_block2\_1\_bn[0][0]

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conv3\_block2\_2\_conv (Conv2D) (None, 16, 16, 32) 36864 conv3\_block2\_1\_relu[0][0]

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conv3\_block2\_concat (Concatenat (None, 16, 16, 192) 0 conv3\_block1\_concat[0][0]

conv3\_block2\_2\_conv[0][0]

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conv3\_block3\_0\_bn (BatchNormali (None, 16, 16, 192) 768 conv3\_block2\_concat[0][0]

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conv3\_block3\_0\_relu (Activation (None, 16, 16, 192) 0 conv3\_block3\_0\_bn[0][0]

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conv3\_block3\_1\_conv (Conv2D) (None, 16, 16, 128) 24576 conv3\_block3\_0\_relu[0][0]

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conv3\_block3\_1\_bn (BatchNormali (None, 16, 16, 128) 512 conv3\_block3\_1\_conv[0][0]

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conv3\_block3\_1\_relu (Activation (None, 16, 16, 128) 0 conv3\_block3\_1\_bn[0][0]

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conv3\_block3\_2\_conv (Conv2D) (None, 16, 16, 32) 36864 conv3\_block3\_1\_relu[0][0]

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conv3\_block3\_concat (Concatenat (None, 16, 16, 224) 0 conv3\_block2\_concat[0][0]

conv3\_block3\_2\_conv[0][0]

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conv3\_block4\_0\_bn (BatchNormali (None, 16, 16, 224) 896 conv3\_block3\_concat[0][0]

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conv3\_block4\_0\_relu (Activation (None, 16, 16, 224) 0 conv3\_block4\_0\_bn[0][0]

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conv3\_block4\_1\_conv (Conv2D) (None, 16, 16, 128) 28672 conv3\_block4\_0\_relu[0][0]

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conv3\_block4\_1\_bn (BatchNormali (None, 16, 16, 128) 512 conv3\_block4\_1\_conv[0][0]

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conv3\_block4\_1\_relu (Activation (None, 16, 16, 128) 0 conv3\_block4\_1\_bn[0][0]

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conv3\_block4\_2\_conv (Conv2D) (None, 16, 16, 32) 36864 conv3\_block4\_1\_relu[0][0]

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conv3\_block4\_concat (Concatenat (None, 16, 16, 256) 0 conv3\_block3\_concat[0][0]

conv3\_block4\_2\_conv[0][0]

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conv3\_block5\_0\_bn (BatchNormali (None, 16, 16, 256) 1024 conv3\_block4\_concat[0][0]

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conv3\_block5\_0\_relu (Activation (None, 16, 16, 256) 0 conv3\_block5\_0\_bn[0][0]

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conv3\_block5\_1\_conv (Conv2D) (None, 16, 16, 128) 32768 conv3\_block5\_0\_relu[0][0]

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conv3\_block5\_1\_bn (BatchNormali (None, 16, 16, 128) 512 conv3\_block5\_1\_conv[0][0]

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conv3\_block5\_1\_relu (Activation (None, 16, 16, 128) 0 conv3\_block5\_1\_bn[0][0]

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conv3\_block5\_2\_conv (Conv2D) (None, 16, 16, 32) 36864 conv3\_block5\_1\_relu[0][0]

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conv3\_block5\_concat (Concatenat (None, 16, 16, 288) 0 conv3\_block4\_concat[0][0]

conv3\_block5\_2\_conv[0][0]

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conv3\_block6\_0\_bn (BatchNormali (None, 16, 16, 288) 1152 conv3\_block5\_concat[0][0]

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conv3\_block6\_0\_relu (Activation (None, 16, 16, 288) 0 conv3\_block6\_0\_bn[0][0]

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conv3\_block6\_1\_conv (Conv2D) (None, 16, 16, 128) 36864 conv3\_block6\_0\_relu[0][0]

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conv3\_block6\_1\_bn (BatchNormali (None, 16, 16, 128) 512 conv3\_block6\_1\_conv[0][0]

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conv3\_block6\_1\_relu (Activation (None, 16, 16, 128) 0 conv3\_block6\_1\_bn[0][0]

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conv3\_block6\_2\_conv (Conv2D) (None, 16, 16, 32) 36864 conv3\_block6\_1\_relu[0][0]

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conv3\_block6\_concat (Concatenat (None, 16, 16, 320) 0 conv3\_block5\_concat[0][0]

conv3\_block6\_2\_conv[0][0]

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conv3\_block7\_0\_bn (BatchNormali (None, 16, 16, 320) 1280 conv3\_block6\_concat[0][0]

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conv3\_block7\_0\_relu (Activation (None, 16, 16, 320) 0 conv3\_block7\_0\_bn[0][0]

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conv3\_block7\_1\_conv (Conv2D) (None, 16, 16, 128) 40960 conv3\_block7\_0\_relu[0][0]

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conv3\_block7\_1\_bn (BatchNormali (None, 16, 16, 128) 512 conv3\_block7\_1\_conv[0][0]

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conv3\_block7\_1\_relu (Activation (None, 16, 16, 128) 0 conv3\_block7\_1\_bn[0][0]

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conv3\_block7\_2\_conv (Conv2D) (None, 16, 16, 32) 36864 conv3\_block7\_1\_relu[0][0]

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conv3\_block7\_concat (Concatenat (None, 16, 16, 352) 0 conv3\_block6\_concat[0][0]

conv3\_block7\_2\_conv[0][0]

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conv3\_block8\_0\_bn (BatchNormali (None, 16, 16, 352) 1408 conv3\_block7\_concat[0][0]

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conv3\_block8\_0\_relu (Activation (None, 16, 16, 352) 0 conv3\_block8\_0\_bn[0][0]

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conv3\_block8\_1\_conv (Conv2D) (None, 16, 16, 128) 45056 conv3\_block8\_0\_relu[0][0]

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conv3\_block8\_1\_bn (BatchNormali (None, 16, 16, 128) 512 conv3\_block8\_1\_conv[0][0]

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conv3\_block8\_1\_relu (Activation (None, 16, 16, 128) 0 conv3\_block8\_1\_bn[0][0]

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conv3\_block8\_2\_conv (Conv2D) (None, 16, 16, 32) 36864 conv3\_block8\_1\_relu[0][0]

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conv3\_block8\_concat (Concatenat (None, 16, 16, 384) 0 conv3\_block7\_concat[0][0]

conv3\_block8\_2\_conv[0][0]

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conv3\_block9\_0\_bn (BatchNormali (None, 16, 16, 384) 1536 conv3\_block8\_concat[0][0]

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conv3\_block9\_0\_relu (Activation (None, 16, 16, 384) 0 conv3\_block9\_0\_bn[0][0]

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conv3\_block9\_1\_conv (Conv2D) (None, 16, 16, 128) 49152 conv3\_block9\_0\_relu[0][0]

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conv3\_block9\_1\_bn (BatchNormali (None, 16, 16, 128) 512 conv3\_block9\_1\_conv[0][0]

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conv3\_block9\_1\_relu (Activation (None, 16, 16, 128) 0 conv3\_block9\_1\_bn[0][0]

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conv3\_block9\_2\_conv (Conv2D) (None, 16, 16, 32) 36864 conv3\_block9\_1\_relu[0][0]

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conv3\_block9\_concat (Concatenat (None, 16, 16, 416) 0 conv3\_block8\_concat[0][0]

conv3\_block9\_2\_conv[0][0]

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conv3\_block10\_0\_bn (BatchNormal (None, 16, 16, 416) 1664 conv3\_block9\_concat[0][0]

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conv3\_block10\_0\_relu (Activatio (None, 16, 16, 416) 0 conv3\_block10\_0\_bn[0][0]

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conv3\_block10\_1\_conv (Conv2D) (None, 16, 16, 128) 53248 conv3\_block10\_0\_relu[0][0]

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conv3\_block10\_1\_bn (BatchNormal (None, 16, 16, 128) 512 conv3\_block10\_1\_conv[0][0]

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conv3\_block10\_1\_relu (Activatio (None, 16, 16, 128) 0 conv3\_block10\_1\_bn[0][0]

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conv3\_block10\_2\_conv (Conv2D) (None, 16, 16, 32) 36864 conv3\_block10\_1\_relu[0][0]

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conv3\_block10\_concat (Concatena (None, 16, 16, 448) 0 conv3\_block9\_concat[0][0]

conv3\_block10\_2\_conv[0][0]

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conv3\_block11\_0\_bn (BatchNormal (None, 16, 16, 448) 1792 conv3\_block10\_concat[0][0]

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conv3\_block11\_0\_relu (Activatio (None, 16, 16, 448) 0 conv3\_block11\_0\_bn[0][0]

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conv3\_block11\_1\_conv (Conv2D) (None, 16, 16, 128) 57344 conv3\_block11\_0\_relu[0][0]

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conv3\_block11\_1\_bn (BatchNormal (None, 16, 16, 128) 512 conv3\_block11\_1\_conv[0][0]

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conv3\_block11\_1\_relu (Activatio (None, 16, 16, 128) 0 conv3\_block11\_1\_bn[0][0]

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conv3\_block11\_2\_conv (Conv2D) (None, 16, 16, 32) 36864 conv3\_block11\_1\_relu[0][0]

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conv3\_block11\_concat (Concatena (None, 16, 16, 480) 0 conv3\_block10\_concat[0][0]

conv3\_block11\_2\_conv[0][0]

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conv3\_block12\_0\_bn (BatchNormal (None, 16, 16, 480) 1920 conv3\_block11\_concat[0][0]

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conv3\_block12\_0\_relu (Activatio (None, 16, 16, 480) 0 conv3\_block12\_0\_bn[0][0]

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conv3\_block12\_1\_conv (Conv2D) (None, 16, 16, 128) 61440 conv3\_block12\_0\_relu[0][0]

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conv3\_block12\_1\_bn (BatchNormal (None, 16, 16, 128) 512 conv3\_block12\_1\_conv[0][0]

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conv3\_block12\_1\_relu (Activatio (None, 16, 16, 128) 0 conv3\_block12\_1\_bn[0][0]

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conv3\_block12\_2\_conv (Conv2D) (None, 16, 16, 32) 36864 conv3\_block12\_1\_relu[0][0]

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conv3\_block12\_concat (Concatena (None, 16, 16, 512) 0 conv3\_block11\_concat[0][0]

conv3\_block12\_2\_conv[0][0]

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pool3\_bn (BatchNormalization) (None, 16, 16, 512) 2048 conv3\_block12\_concat[0][0]

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pool3\_relu (Activation) (None, 16, 16, 512) 0 pool3\_bn[0][0]

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pool3\_conv (Conv2D) (None, 16, 16, 256) 131072 pool3\_relu[0][0]

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pool3\_pool (AveragePooling2D) (None, 8, 8, 256) 0 pool3\_conv[0][0]

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conv4\_block1\_0\_bn (BatchNormali (None, 8, 8, 256) 1024 pool3\_pool[0][0]

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conv4\_block1\_0\_relu (Activation (None, 8, 8, 256) 0 conv4\_block1\_0\_bn[0][0]

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conv4\_block1\_1\_conv (Conv2D) (None, 8, 8, 128) 32768 conv4\_block1\_0\_relu[0][0]

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conv4\_block1\_1\_bn (BatchNormali (None, 8, 8, 128) 512 conv4\_block1\_1\_conv[0][0]

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conv4\_block1\_1\_relu (Activation (None, 8, 8, 128) 0 conv4\_block1\_1\_bn[0][0]

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conv4\_block1\_2\_conv (Conv2D) (None, 8, 8, 32) 36864 conv4\_block1\_1\_relu[0][0]

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conv4\_block1\_concat (Concatenat (None, 8, 8, 288) 0 pool3\_pool[0][0]

conv4\_block1\_2\_conv[0][0]

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conv4\_block2\_0\_bn (BatchNormali (None, 8, 8, 288) 1152 conv4\_block1\_concat[0][0]

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conv4\_block2\_0\_relu (Activation (None, 8, 8, 288) 0 conv4\_block2\_0\_bn[0][0]

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conv4\_block2\_1\_conv (Conv2D) (None, 8, 8, 128) 36864 conv4\_block2\_0\_relu[0][0]

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conv4\_block2\_1\_bn (BatchNormali (None, 8, 8, 128) 512 conv4\_block2\_1\_conv[0][0]

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conv4\_block2\_1\_relu (Activation (None, 8, 8, 128) 0 conv4\_block2\_1\_bn[0][0]

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conv4\_block2\_2\_conv (Conv2D) (None, 8, 8, 32) 36864 conv4\_block2\_1\_relu[0][0]

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conv4\_block2\_concat (Concatenat (None, 8, 8, 320) 0 conv4\_block1\_concat[0][0]

conv4\_block2\_2\_conv[0][0]

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conv4\_block3\_0\_bn (BatchNormali (None, 8, 8, 320) 1280 conv4\_block2\_concat[0][0]

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conv4\_block3\_0\_relu (Activation (None, 8, 8, 320) 0 conv4\_block3\_0\_bn[0][0]

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conv4\_block3\_1\_conv (Conv2D) (None, 8, 8, 128) 40960 conv4\_block3\_0\_relu[0][0]

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conv4\_block3\_1\_bn (BatchNormali (None, 8, 8, 128) 512 conv4\_block3\_1\_conv[0][0]

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conv4\_block3\_1\_relu (Activation (None, 8, 8, 128) 0 conv4\_block3\_1\_bn[0][0]

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conv4\_block3\_2\_conv (Conv2D) (None, 8, 8, 32) 36864 conv4\_block3\_1\_relu[0][0]

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conv4\_block3\_concat (Concatenat (None, 8, 8, 352) 0 conv4\_block2\_concat[0][0]

conv4\_block3\_2\_conv[0][0]

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conv4\_block4\_0\_bn (BatchNormali (None, 8, 8, 352) 1408 conv4\_block3\_concat[0][0]

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conv4\_block4\_0\_relu (Activation (None, 8, 8, 352) 0 conv4\_block4\_0\_bn[0][0]

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conv4\_block4\_1\_conv (Conv2D) (None, 8, 8, 128) 45056 conv4\_block4\_0\_relu[0][0]

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conv4\_block4\_1\_bn (BatchNormali (None, 8, 8, 128) 512 conv4\_block4\_1\_conv[0][0]

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conv4\_block4\_1\_relu (Activation (None, 8, 8, 128) 0 conv4\_block4\_1\_bn[0][0]

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conv4\_block4\_2\_conv (Conv2D) (None, 8, 8, 32) 36864 conv4\_block4\_1\_relu[0][0]

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conv4\_block4\_concat (Concatenat (None, 8, 8, 384) 0 conv4\_block3\_concat[0][0]

conv4\_block4\_2\_conv[0][0]

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conv4\_block5\_0\_bn (BatchNormali (None, 8, 8, 384) 1536 conv4\_block4\_concat[0][0]

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conv4\_block5\_0\_relu (Activation (None, 8, 8, 384) 0 conv4\_block5\_0\_bn[0][0]

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conv4\_block5\_1\_conv (Conv2D) (None, 8, 8, 128) 49152 conv4\_block5\_0\_relu[0][0]

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conv4\_block5\_1\_bn (BatchNormali (None, 8, 8, 128) 512 conv4\_block5\_1\_conv[0][0]

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conv4\_block5\_1\_relu (Activation (None, 8, 8, 128) 0 conv4\_block5\_1\_bn[0][0]

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conv4\_block5\_2\_conv (Conv2D) (None, 8, 8, 32) 36864 conv4\_block5\_1\_relu[0][0]

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conv4\_block5\_concat (Concatenat (None, 8, 8, 416) 0 conv4\_block4\_concat[0][0]

conv4\_block5\_2\_conv[0][0]

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conv4\_block6\_0\_bn (BatchNormali (None, 8, 8, 416) 1664 conv4\_block5\_concat[0][0]

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conv4\_block6\_0\_relu (Activation (None, 8, 8, 416) 0 conv4\_block6\_0\_bn[0][0]

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conv4\_block6\_1\_conv (Conv2D) (None, 8, 8, 128) 53248 conv4\_block6\_0\_relu[0][0]

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conv4\_block6\_1\_bn (BatchNormali (None, 8, 8, 128) 512 conv4\_block6\_1\_conv[0][0]

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conv4\_block6\_1\_relu (Activation (None, 8, 8, 128) 0 conv4\_block6\_1\_bn[0][0]

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conv4\_block6\_2\_conv (Conv2D) (None, 8, 8, 32) 36864 conv4\_block6\_1\_relu[0][0]

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conv4\_block6\_concat (Concatenat (None, 8, 8, 448) 0 conv4\_block5\_concat[0][0]

conv4\_block6\_2\_conv[0][0]

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conv4\_block7\_0\_bn (BatchNormali (None, 8, 8, 448) 1792 conv4\_block6\_concat[0][0]

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conv4\_block7\_0\_relu (Activation (None, 8, 8, 448) 0 conv4\_block7\_0\_bn[0][0]

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conv4\_block7\_1\_conv (Conv2D) (None, 8, 8, 128) 57344 conv4\_block7\_0\_relu[0][0]

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conv4\_block7\_1\_bn (BatchNormali (None, 8, 8, 128) 512 conv4\_block7\_1\_conv[0][0]

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conv4\_block7\_1\_relu (Activation (None, 8, 8, 128) 0 conv4\_block7\_1\_bn[0][0]

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conv4\_block7\_2\_conv (Conv2D) (None, 8, 8, 32) 36864 conv4\_block7\_1\_relu[0][0]

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conv4\_block7\_concat (Concatenat (None, 8, 8, 480) 0 conv4\_block6\_concat[0][0]

conv4\_block7\_2\_conv[0][0]

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conv4\_block8\_0\_bn (BatchNormali (None, 8, 8, 480) 1920 conv4\_block7\_concat[0][0]

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conv4\_block8\_0\_relu (Activation (None, 8, 8, 480) 0 conv4\_block8\_0\_bn[0][0]

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conv4\_block8\_1\_conv (Conv2D) (None, 8, 8, 128) 61440 conv4\_block8\_0\_relu[0][0]

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conv4\_block8\_1\_bn (BatchNormali (None, 8, 8, 128) 512 conv4\_block8\_1\_conv[0][0]

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conv4\_block8\_1\_relu (Activation (None, 8, 8, 128) 0 conv4\_block8\_1\_bn[0][0]

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conv4\_block8\_2\_conv (Conv2D) (None, 8, 8, 32) 36864 conv4\_block8\_1\_relu[0][0]

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conv4\_block8\_concat (Concatenat (None, 8, 8, 512) 0 conv4\_block7\_concat[0][0]

conv4\_block8\_2\_conv[0][0]

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conv4\_block9\_0\_bn (BatchNormali (None, 8, 8, 512) 2048 conv4\_block8\_concat[0][0]

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conv4\_block9\_0\_relu (Activation (None, 8, 8, 512) 0 conv4\_block9\_0\_bn[0][0]

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conv4\_block9\_1\_conv (Conv2D) (None, 8, 8, 128) 65536 conv4\_block9\_0\_relu[0][0]

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conv4\_block9\_1\_bn (BatchNormali (None, 8, 8, 128) 512 conv4\_block9\_1\_conv[0][0]

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conv4\_block9\_1\_relu (Activation (None, 8, 8, 128) 0 conv4\_block9\_1\_bn[0][0]

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conv4\_block9\_2\_conv (Conv2D) (None, 8, 8, 32) 36864 conv4\_block9\_1\_relu[0][0]

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conv4\_block9\_concat (Concatenat (None, 8, 8, 544) 0 conv4\_block8\_concat[0][0]

conv4\_block9\_2\_conv[0][0]

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conv4\_block10\_0\_bn (BatchNormal (None, 8, 8, 544) 2176 conv4\_block9\_concat[0][0]

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conv4\_block10\_0\_relu (Activatio (None, 8, 8, 544) 0 conv4\_block10\_0\_bn[0][0]

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conv4\_block10\_1\_conv (Conv2D) (None, 8, 8, 128) 69632 conv4\_block10\_0\_relu[0][0]

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conv4\_block10\_1\_bn (BatchNormal (None, 8, 8, 128) 512 conv4\_block10\_1\_conv[0][0]

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conv4\_block10\_1\_relu (Activatio (None, 8, 8, 128) 0 conv4\_block10\_1\_bn[0][0]

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conv4\_block10\_2\_conv (Conv2D) (None, 8, 8, 32) 36864 conv4\_block10\_1\_relu[0][0]

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conv4\_block10\_concat (Concatena (None, 8, 8, 576) 0 conv4\_block9\_concat[0][0]

conv4\_block10\_2\_conv[0][0]

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conv4\_block11\_0\_bn (BatchNormal (None, 8, 8, 576) 2304 conv4\_block10\_concat[0][0]

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conv4\_block11\_0\_relu (Activatio (None, 8, 8, 576) 0 conv4\_block11\_0\_bn[0][0]

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conv4\_block11\_1\_conv (Conv2D) (None, 8, 8, 128) 73728 conv4\_block11\_0\_relu[0][0]

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conv4\_block11\_1\_bn (BatchNormal (None, 8, 8, 128) 512 conv4\_block11\_1\_conv[0][0]

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conv4\_block11\_1\_relu (Activatio (None, 8, 8, 128) 0 conv4\_block11\_1\_bn[0][0]

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conv4\_block11\_2\_conv (Conv2D) (None, 8, 8, 32) 36864 conv4\_block11\_1\_relu[0][0]

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conv4\_block11\_concat (Concatena (None, 8, 8, 608) 0 conv4\_block10\_concat[0][0]

conv4\_block11\_2\_conv[0][0]

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conv4\_block12\_0\_bn (BatchNormal (None, 8, 8, 608) 2432 conv4\_block11\_concat[0][0]

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conv4\_block12\_0\_relu (Activatio (None, 8, 8, 608) 0 conv4\_block12\_0\_bn[0][0]

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conv4\_block12\_1\_conv (Conv2D) (None, 8, 8, 128) 77824 conv4\_block12\_0\_relu[0][0]

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conv4\_block12\_1\_bn (BatchNormal (None, 8, 8, 128) 512 conv4\_block12\_1\_conv[0][0]

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conv4\_block12\_1\_relu (Activatio (None, 8, 8, 128) 0 conv4\_block12\_1\_bn[0][0]

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conv4\_block12\_2\_conv (Conv2D) (None, 8, 8, 32) 36864 conv4\_block12\_1\_relu[0][0]

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conv4\_block12\_concat (Concatena (None, 8, 8, 640) 0 conv4\_block11\_concat[0][0]

conv4\_block12\_2\_conv[0][0]

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conv4\_block13\_0\_bn (BatchNormal (None, 8, 8, 640) 2560 conv4\_block12\_concat[0][0]

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conv4\_block13\_0\_relu (Activatio (None, 8, 8, 640) 0 conv4\_block13\_0\_bn[0][0]

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conv4\_block13\_1\_conv (Conv2D) (None, 8, 8, 128) 81920 conv4\_block13\_0\_relu[0][0]

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conv4\_block13\_1\_bn (BatchNormal (None, 8, 8, 128) 512 conv4\_block13\_1\_conv[0][0]

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conv4\_block13\_1\_relu (Activatio (None, 8, 8, 128) 0 conv4\_block13\_1\_bn[0][0]

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conv4\_block13\_2\_conv (Conv2D) (None, 8, 8, 32) 36864 conv4\_block13\_1\_relu[0][0]

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conv4\_block13\_concat (Concatena (None, 8, 8, 672) 0 conv4\_block12\_concat[0][0]

conv4\_block13\_2\_conv[0][0]

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conv4\_block14\_0\_bn (BatchNormal (None, 8, 8, 672) 2688 conv4\_block13\_concat[0][0]

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conv4\_block14\_0\_relu (Activatio (None, 8, 8, 672) 0 conv4\_block14\_0\_bn[0][0]

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conv4\_block14\_1\_conv (Conv2D) (None, 8, 8, 128) 86016 conv4\_block14\_0\_relu[0][0]

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conv4\_block14\_1\_bn (BatchNormal (None, 8, 8, 128) 512 conv4\_block14\_1\_conv[0][0]

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conv4\_block14\_1\_relu (Activatio (None, 8, 8, 128) 0 conv4\_block14\_1\_bn[0][0]

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conv4\_block14\_2\_conv (Conv2D) (None, 8, 8, 32) 36864 conv4\_block14\_1\_relu[0][0]

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conv4\_block14\_concat (Concatena (None, 8, 8, 704) 0 conv4\_block13\_concat[0][0]

conv4\_block14\_2\_conv[0][0]

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conv4\_block15\_0\_bn (BatchNormal (None, 8, 8, 704) 2816 conv4\_block14\_concat[0][0]

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conv4\_block15\_0\_relu (Activatio (None, 8, 8, 704) 0 conv4\_block15\_0\_bn[0][0]

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conv4\_block15\_1\_conv (Conv2D) (None, 8, 8, 128) 90112 conv4\_block15\_0\_relu[0][0]

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conv4\_block15\_1\_bn (BatchNormal (None, 8, 8, 128) 512 conv4\_block15\_1\_conv[0][0]

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conv4\_block15\_1\_relu (Activatio (None, 8, 8, 128) 0 conv4\_block15\_1\_bn[0][0]

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conv4\_block15\_2\_conv (Conv2D) (None, 8, 8, 32) 36864 conv4\_block15\_1\_relu[0][0]

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conv4\_block15\_concat (Concatena (None, 8, 8, 736) 0 conv4\_block14\_concat[0][0]

conv4\_block15\_2\_conv[0][0]

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conv4\_block16\_0\_bn (BatchNormal (None, 8, 8, 736) 2944 conv4\_block15\_concat[0][0]

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conv4\_block16\_0\_relu (Activatio (None, 8, 8, 736) 0 conv4\_block16\_0\_bn[0][0]

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conv4\_block16\_1\_conv (Conv2D) (None, 8, 8, 128) 94208 conv4\_block16\_0\_relu[0][0]

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conv4\_block16\_1\_bn (BatchNormal (None, 8, 8, 128) 512 conv4\_block16\_1\_conv[0][0]

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conv4\_block16\_1\_relu (Activatio (None, 8, 8, 128) 0 conv4\_block16\_1\_bn[0][0]

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conv4\_block16\_2\_conv (Conv2D) (None, 8, 8, 32) 36864 conv4\_block16\_1\_relu[0][0]

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conv4\_block16\_concat (Concatena (None, 8, 8, 768) 0 conv4\_block15\_concat[0][0]

conv4\_block16\_2\_conv[0][0]

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conv4\_block17\_0\_bn (BatchNormal (None, 8, 8, 768) 3072 conv4\_block16\_concat[0][0]

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conv4\_block17\_0\_relu (Activatio (None, 8, 8, 768) 0 conv4\_block17\_0\_bn[0][0]

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conv4\_block17\_1\_conv (Conv2D) (None, 8, 8, 128) 98304 conv4\_block17\_0\_relu[0][0]

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conv4\_block17\_1\_bn (BatchNormal (None, 8, 8, 128) 512 conv4\_block17\_1\_conv[0][0]

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conv4\_block17\_1\_relu (Activatio (None, 8, 8, 128) 0 conv4\_block17\_1\_bn[0][0]

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conv4\_block17\_2\_conv (Conv2D) (None, 8, 8, 32) 36864 conv4\_block17\_1\_relu[0][0]

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conv4\_block17\_concat (Concatena (None, 8, 8, 800) 0 conv4\_block16\_concat[0][0]

conv4\_block17\_2\_conv[0][0]

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conv4\_block18\_0\_bn (BatchNormal (None, 8, 8, 800) 3200 conv4\_block17\_concat[0][0]

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conv4\_block18\_0\_relu (Activatio (None, 8, 8, 800) 0 conv4\_block18\_0\_bn[0][0]

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conv4\_block18\_1\_conv (Conv2D) (None, 8, 8, 128) 102400 conv4\_block18\_0\_relu[0][0]

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conv4\_block18\_1\_bn (BatchNormal (None, 8, 8, 128) 512 conv4\_block18\_1\_conv[0][0]

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conv4\_block18\_1\_relu (Activatio (None, 8, 8, 128) 0 conv4\_block18\_1\_bn[0][0]

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conv4\_block18\_2\_conv (Conv2D) (None, 8, 8, 32) 36864 conv4\_block18\_1\_relu[0][0]

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conv4\_block18\_concat (Concatena (None, 8, 8, 832) 0 conv4\_block17\_concat[0][0]

conv4\_block18\_2\_conv[0][0]

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conv4\_block19\_0\_bn (BatchNormal (None, 8, 8, 832) 3328 conv4\_block18\_concat[0][0]

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conv4\_block19\_0\_relu (Activatio (None, 8, 8, 832) 0 conv4\_block19\_0\_bn[0][0]

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conv4\_block19\_1\_conv (Conv2D) (None, 8, 8, 128) 106496 conv4\_block19\_0\_relu[0][0]

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conv4\_block19\_1\_bn (BatchNormal (None, 8, 8, 128) 512 conv4\_block19\_1\_conv[0][0]

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conv4\_block19\_1\_relu (Activatio (None, 8, 8, 128) 0 conv4\_block19\_1\_bn[0][0]

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conv4\_block19\_2\_conv (Conv2D) (None, 8, 8, 32) 36864 conv4\_block19\_1\_relu[0][0]

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conv4\_block19\_concat (Concatena (None, 8, 8, 864) 0 conv4\_block18\_concat[0][0]

conv4\_block19\_2\_conv[0][0]

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conv4\_block20\_0\_bn (BatchNormal (None, 8, 8, 864) 3456 conv4\_block19\_concat[0][0]

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conv4\_block20\_0\_relu (Activatio (None, 8, 8, 864) 0 conv4\_block20\_0\_bn[0][0]

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conv4\_block20\_1\_conv (Conv2D) (None, 8, 8, 128) 110592 conv4\_block20\_0\_relu[0][0]

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conv4\_block20\_1\_bn (BatchNormal (None, 8, 8, 128) 512 conv4\_block20\_1\_conv[0][0]

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conv4\_block20\_1\_relu (Activatio (None, 8, 8, 128) 0 conv4\_block20\_1\_bn[0][0]

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conv4\_block20\_2\_conv (Conv2D) (None, 8, 8, 32) 36864 conv4\_block20\_1\_relu[0][0]

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conv4\_block20\_concat (Concatena (None, 8, 8, 896) 0 conv4\_block19\_concat[0][0]

conv4\_block20\_2\_conv[0][0]

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conv4\_block21\_0\_bn (BatchNormal (None, 8, 8, 896) 3584 conv4\_block20\_concat[0][0]

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conv4\_block21\_0\_relu (Activatio (None, 8, 8, 896) 0 conv4\_block21\_0\_bn[0][0]

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conv4\_block21\_1\_conv (Conv2D) (None, 8, 8, 128) 114688 conv4\_block21\_0\_relu[0][0]

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conv4\_block21\_1\_bn (BatchNormal (None, 8, 8, 128) 512 conv4\_block21\_1\_conv[0][0]

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conv4\_block21\_1\_relu (Activatio (None, 8, 8, 128) 0 conv4\_block21\_1\_bn[0][0]

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conv4\_block21\_2\_conv (Conv2D) (None, 8, 8, 32) 36864 conv4\_block21\_1\_relu[0][0]

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conv4\_block21\_concat (Concatena (None, 8, 8, 928) 0 conv4\_block20\_concat[0][0]

conv4\_block21\_2\_conv[0][0]

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conv4\_block22\_0\_bn (BatchNormal (None, 8, 8, 928) 3712 conv4\_block21\_concat[0][0]

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conv4\_block22\_0\_relu (Activatio (None, 8, 8, 928) 0 conv4\_block22\_0\_bn[0][0]

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conv4\_block22\_1\_conv (Conv2D) (None, 8, 8, 128) 118784 conv4\_block22\_0\_relu[0][0]

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conv4\_block22\_1\_bn (BatchNormal (None, 8, 8, 128) 512 conv4\_block22\_1\_conv[0][0]

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conv4\_block22\_1\_relu (Activatio (None, 8, 8, 128) 0 conv4\_block22\_1\_bn[0][0]

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conv4\_block22\_2\_conv (Conv2D) (None, 8, 8, 32) 36864 conv4\_block22\_1\_relu[0][0]

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conv4\_block22\_concat (Concatena (None, 8, 8, 960) 0 conv4\_block21\_concat[0][0]

conv4\_block22\_2\_conv[0][0]

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conv4\_block23\_0\_bn (BatchNormal (None, 8, 8, 960) 3840 conv4\_block22\_concat[0][0]

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conv4\_block23\_0\_relu (Activatio (None, 8, 8, 960) 0 conv4\_block23\_0\_bn[0][0]

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conv4\_block23\_1\_conv (Conv2D) (None, 8, 8, 128) 122880 conv4\_block23\_0\_relu[0][0]

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conv4\_block23\_1\_bn (BatchNormal (None, 8, 8, 128) 512 conv4\_block23\_1\_conv[0][0]

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conv4\_block23\_1\_relu (Activatio (None, 8, 8, 128) 0 conv4\_block23\_1\_bn[0][0]

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conv4\_block23\_2\_conv (Conv2D) (None, 8, 8, 32) 36864 conv4\_block23\_1\_relu[0][0]

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conv4\_block23\_concat (Concatena (None, 8, 8, 992) 0 conv4\_block22\_concat[0][0]

conv4\_block23\_2\_conv[0][0]

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conv4\_block24\_0\_bn (BatchNormal (None, 8, 8, 992) 3968 conv4\_block23\_concat[0][0]

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conv4\_block24\_0\_relu (Activatio (None, 8, 8, 992) 0 conv4\_block24\_0\_bn[0][0]

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conv4\_block24\_1\_conv (Conv2D) (None, 8, 8, 128) 126976 conv4\_block24\_0\_relu[0][0]

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conv4\_block24\_1\_bn (BatchNormal (None, 8, 8, 128) 512 conv4\_block24\_1\_conv[0][0]

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conv4\_block24\_1\_relu (Activatio (None, 8, 8, 128) 0 conv4\_block24\_1\_bn[0][0]

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conv4\_block24\_2\_conv (Conv2D) (None, 8, 8, 32) 36864 conv4\_block24\_1\_relu[0][0]

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conv4\_block24\_concat (Concatena (None, 8, 8, 1024) 0 conv4\_block23\_concat[0][0]

conv4\_block24\_2\_conv[0][0]

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pool4\_bn (BatchNormalization) (None, 8, 8, 1024) 4096 conv4\_block24\_concat[0][0]

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pool4\_relu (Activation) (None, 8, 8, 1024) 0 pool4\_bn[0][0]

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pool4\_conv (Conv2D) (None, 8, 8, 512) 524288 pool4\_relu[0][0]

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pool4\_pool (AveragePooling2D) (None, 4, 4, 512) 0 pool4\_conv[0][0]

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conv5\_block1\_0\_bn (BatchNormali (None, 4, 4, 512) 2048 pool4\_pool[0][0]

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conv5\_block1\_0\_relu (Activation (None, 4, 4, 512) 0 conv5\_block1\_0\_bn[0][0]

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conv5\_block1\_1\_conv (Conv2D) (None, 4, 4, 128) 65536 conv5\_block1\_0\_relu[0][0]

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conv5\_block1\_1\_bn (BatchNormali (None, 4, 4, 128) 512 conv5\_block1\_1\_conv[0][0]

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conv5\_block1\_1\_relu (Activation (None, 4, 4, 128) 0 conv5\_block1\_1\_bn[0][0]

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conv5\_block1\_2\_conv (Conv2D) (None, 4, 4, 32) 36864 conv5\_block1\_1\_relu[0][0]

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conv5\_block1\_concat (Concatenat (None, 4, 4, 544) 0 pool4\_pool[0][0]

conv5\_block1\_2\_conv[0][0]

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conv5\_block2\_0\_bn (BatchNormali (None, 4, 4, 544) 2176 conv5\_block1\_concat[0][0]

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conv5\_block2\_0\_relu (Activation (None, 4, 4, 544) 0 conv5\_block2\_0\_bn[0][0]

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conv5\_block2\_1\_conv (Conv2D) (None, 4, 4, 128) 69632 conv5\_block2\_0\_relu[0][0]

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conv5\_block2\_1\_bn (BatchNormali (None, 4, 4, 128) 512 conv5\_block2\_1\_conv[0][0]

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conv5\_block2\_1\_relu (Activation (None, 4, 4, 128) 0 conv5\_block2\_1\_bn[0][0]

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conv5\_block2\_2\_conv (Conv2D) (None, 4, 4, 32) 36864 conv5\_block2\_1\_relu[0][0]

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conv5\_block2\_concat (Concatenat (None, 4, 4, 576) 0 conv5\_block1\_concat[0][0]

conv5\_block2\_2\_conv[0][0]

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conv5\_block3\_0\_bn (BatchNormali (None, 4, 4, 576) 2304 conv5\_block2\_concat[0][0]

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conv5\_block3\_0\_relu (Activation (None, 4, 4, 576) 0 conv5\_block3\_0\_bn[0][0]

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conv5\_block3\_1\_conv (Conv2D) (None, 4, 4, 128) 73728 conv5\_block3\_0\_relu[0][0]

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conv5\_block3\_1\_bn (BatchNormali (None, 4, 4, 128) 512 conv5\_block3\_1\_conv[0][0]

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conv5\_block3\_1\_relu (Activation (None, 4, 4, 128) 0 conv5\_block3\_1\_bn[0][0]

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conv5\_block3\_2\_conv (Conv2D) (None, 4, 4, 32) 36864 conv5\_block3\_1\_relu[0][0]

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conv5\_block3\_concat (Concatenat (None, 4, 4, 608) 0 conv5\_block2\_concat[0][0]

conv5\_block3\_2\_conv[0][0]

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conv5\_block4\_0\_bn (BatchNormali (None, 4, 4, 608) 2432 conv5\_block3\_concat[0][0]

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conv5\_block4\_0\_relu (Activation (None, 4, 4, 608) 0 conv5\_block4\_0\_bn[0][0]

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conv5\_block4\_1\_conv (Conv2D) (None, 4, 4, 128) 77824 conv5\_block4\_0\_relu[0][0]

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conv5\_block4\_1\_bn (BatchNormali (None, 4, 4, 128) 512 conv5\_block4\_1\_conv[0][0]

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conv5\_block4\_1\_relu (Activation (None, 4, 4, 128) 0 conv5\_block4\_1\_bn[0][0]

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conv5\_block4\_2\_conv (Conv2D) (None, 4, 4, 32) 36864 conv5\_block4\_1\_relu[0][0]

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conv5\_block4\_concat (Concatenat (None, 4, 4, 640) 0 conv5\_block3\_concat[0][0]

conv5\_block4\_2\_conv[0][0]

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conv5\_block5\_0\_bn (BatchNormali (None, 4, 4, 640) 2560 conv5\_block4\_concat[0][0]

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conv5\_block5\_0\_relu (Activation (None, 4, 4, 640) 0 conv5\_block5\_0\_bn[0][0]

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conv5\_block5\_1\_conv (Conv2D) (None, 4, 4, 128) 81920 conv5\_block5\_0\_relu[0][0]

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conv5\_block5\_1\_bn (BatchNormali (None, 4, 4, 128) 512 conv5\_block5\_1\_conv[0][0]

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conv5\_block5\_1\_relu (Activation (None, 4, 4, 128) 0 conv5\_block5\_1\_bn[0][0]

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conv5\_block5\_2\_conv (Conv2D) (None, 4, 4, 32) 36864 conv5\_block5\_1\_relu[0][0]

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conv5\_block5\_concat (Concatenat (None, 4, 4, 672) 0 conv5\_block4\_concat[0][0]

conv5\_block5\_2\_conv[0][0]

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conv5\_block6\_0\_bn (BatchNormali (None, 4, 4, 672) 2688 conv5\_block5\_concat[0][0]

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conv5\_block6\_0\_relu (Activation (None, 4, 4, 672) 0 conv5\_block6\_0\_bn[0][0]

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conv5\_block6\_1\_conv (Conv2D) (None, 4, 4, 128) 86016 conv5\_block6\_0\_relu[0][0]

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conv5\_block6\_1\_bn (BatchNormali (None, 4, 4, 128) 512 conv5\_block6\_1\_conv[0][0]

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conv5\_block6\_1\_relu (Activation (None, 4, 4, 128) 0 conv5\_block6\_1\_bn[0][0]

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conv5\_block6\_2\_conv (Conv2D) (None, 4, 4, 32) 36864 conv5\_block6\_1\_relu[0][0]

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conv5\_block6\_concat (Concatenat (None, 4, 4, 704) 0 conv5\_block5\_concat[0][0]

conv5\_block6\_2\_conv[0][0]

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conv5\_block7\_0\_bn (BatchNormali (None, 4, 4, 704) 2816 conv5\_block6\_concat[0][0]

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conv5\_block7\_0\_relu (Activation (None, 4, 4, 704) 0 conv5\_block7\_0\_bn[0][0]

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conv5\_block7\_1\_conv (Conv2D) (None, 4, 4, 128) 90112 conv5\_block7\_0\_relu[0][0]

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conv5\_block7\_1\_bn (BatchNormali (None, 4, 4, 128) 512 conv5\_block7\_1\_conv[0][0]

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conv5\_block7\_1\_relu (Activation (None, 4, 4, 128) 0 conv5\_block7\_1\_bn[0][0]

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conv5\_block7\_2\_conv (Conv2D) (None, 4, 4, 32) 36864 conv5\_block7\_1\_relu[0][0]

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conv5\_block7\_concat (Concatenat (None, 4, 4, 736) 0 conv5\_block6\_concat[0][0]

conv5\_block7\_2\_conv[0][0]

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conv5\_block8\_0\_bn (BatchNormali (None, 4, 4, 736) 2944 conv5\_block7\_concat[0][0]

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conv5\_block8\_0\_relu (Activation (None, 4, 4, 736) 0 conv5\_block8\_0\_bn[0][0]

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conv5\_block8\_1\_conv (Conv2D) (None, 4, 4, 128) 94208 conv5\_block8\_0\_relu[0][0]

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conv5\_block8\_1\_bn (BatchNormali (None, 4, 4, 128) 512 conv5\_block8\_1\_conv[0][0]

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conv5\_block8\_1\_relu (Activation (None, 4, 4, 128) 0 conv5\_block8\_1\_bn[0][0]

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conv5\_block8\_2\_conv (Conv2D) (None, 4, 4, 32) 36864 conv5\_block8\_1\_relu[0][0]

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conv5\_block8\_concat (Concatenat (None, 4, 4, 768) 0 conv5\_block7\_concat[0][0]

conv5\_block8\_2\_conv[0][0]

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conv5\_block9\_0\_bn (BatchNormali (None, 4, 4, 768) 3072 conv5\_block8\_concat[0][0]

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conv5\_block9\_0\_relu (Activation (None, 4, 4, 768) 0 conv5\_block9\_0\_bn[0][0]

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conv5\_block9\_1\_conv (Conv2D) (None, 4, 4, 128) 98304 conv5\_block9\_0\_relu[0][0]

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conv5\_block9\_1\_bn (BatchNormali (None, 4, 4, 128) 512 conv5\_block9\_1\_conv[0][0]

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conv5\_block9\_1\_relu (Activation (None, 4, 4, 128) 0 conv5\_block9\_1\_bn[0][0]

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conv5\_block9\_2\_conv (Conv2D) (None, 4, 4, 32) 36864 conv5\_block9\_1\_relu[0][0]

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conv5\_block9\_concat (Concatenat (None, 4, 4, 800) 0 conv5\_block8\_concat[0][0]

conv5\_block9\_2\_conv[0][0]

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conv5\_block10\_0\_bn (BatchNormal (None, 4, 4, 800) 3200 conv5\_block9\_concat[0][0]

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conv5\_block10\_0\_relu (Activatio (None, 4, 4, 800) 0 conv5\_block10\_0\_bn[0][0]

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conv5\_block10\_1\_conv (Conv2D) (None, 4, 4, 128) 102400 conv5\_block10\_0\_relu[0][0]

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conv5\_block10\_1\_bn (BatchNormal (None, 4, 4, 128) 512 conv5\_block10\_1\_conv[0][0]

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conv5\_block10\_1\_relu (Activatio (None, 4, 4, 128) 0 conv5\_block10\_1\_bn[0][0]

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conv5\_block10\_2\_conv (Conv2D) (None, 4, 4, 32) 36864 conv5\_block10\_1\_relu[0][0]

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conv5\_block10\_concat (Concatena (None, 4, 4, 832) 0 conv5\_block9\_concat[0][0]

conv5\_block10\_2\_conv[0][0]

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conv5\_block11\_0\_bn (BatchNormal (None, 4, 4, 832) 3328 conv5\_block10\_concat[0][0]

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conv5\_block11\_0\_relu (Activatio (None, 4, 4, 832) 0 conv5\_block11\_0\_bn[0][0]

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conv5\_block11\_1\_conv (Conv2D) (None, 4, 4, 128) 106496 conv5\_block11\_0\_relu[0][0]

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conv5\_block11\_1\_bn (BatchNormal (None, 4, 4, 128) 512 conv5\_block11\_1\_conv[0][0]

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conv5\_block11\_1\_relu (Activatio (None, 4, 4, 128) 0 conv5\_block11\_1\_bn[0][0]

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conv5\_block11\_2\_conv (Conv2D) (None, 4, 4, 32) 36864 conv5\_block11\_1\_relu[0][0]

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conv5\_block11\_concat (Concatena (None, 4, 4, 864) 0 conv5\_block10\_concat[0][0]

conv5\_block11\_2\_conv[0][0]

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conv5\_block12\_0\_bn (BatchNormal (None, 4, 4, 864) 3456 conv5\_block11\_concat[0][0]

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conv5\_block12\_0\_relu (Activatio (None, 4, 4, 864) 0 conv5\_block12\_0\_bn[0][0]

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conv5\_block12\_1\_conv (Conv2D) (None, 4, 4, 128) 110592 conv5\_block12\_0\_relu[0][0]

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conv5\_block12\_1\_bn (BatchNormal (None, 4, 4, 128) 512 conv5\_block12\_1\_conv[0][0]

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conv5\_block12\_1\_relu (Activatio (None, 4, 4, 128) 0 conv5\_block12\_1\_bn[0][0]

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conv5\_block12\_2\_conv (Conv2D) (None, 4, 4, 32) 36864 conv5\_block12\_1\_relu[0][0]

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conv5\_block12\_concat (Concatena (None, 4, 4, 896) 0 conv5\_block11\_concat[0][0]

conv5\_block12\_2\_conv[0][0]

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conv5\_block13\_0\_bn (BatchNormal (None, 4, 4, 896) 3584 conv5\_block12\_concat[0][0]

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conv5\_block13\_0\_relu (Activatio (None, 4, 4, 896) 0 conv5\_block13\_0\_bn[0][0]

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conv5\_block13\_1\_conv (Conv2D) (None, 4, 4, 128) 114688 conv5\_block13\_0\_relu[0][0]

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conv5\_block13\_1\_bn (BatchNormal (None, 4, 4, 128) 512 conv5\_block13\_1\_conv[0][0]

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conv5\_block13\_1\_relu (Activatio (None, 4, 4, 128) 0 conv5\_block13\_1\_bn[0][0]

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conv5\_block13\_2\_conv (Conv2D) (None, 4, 4, 32) 36864 conv5\_block13\_1\_relu[0][0]

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conv5\_block13\_concat (Concatena (None, 4, 4, 928) 0 conv5\_block12\_concat[0][0]

conv5\_block13\_2\_conv[0][0]

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conv5\_block14\_0\_bn (BatchNormal (None, 4, 4, 928) 3712 conv5\_block13\_concat[0][0]

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conv5\_block14\_0\_relu (Activatio (None, 4, 4, 928) 0 conv5\_block14\_0\_bn[0][0]

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conv5\_block14\_1\_conv (Conv2D) (None, 4, 4, 128) 118784 conv5\_block14\_0\_relu[0][0]

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conv5\_block14\_1\_bn (BatchNormal (None, 4, 4, 128) 512 conv5\_block14\_1\_conv[0][0]

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conv5\_block14\_1\_relu (Activatio (None, 4, 4, 128) 0 conv5\_block14\_1\_bn[0][0]

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conv5\_block14\_2\_conv (Conv2D) (None, 4, 4, 32) 36864 conv5\_block14\_1\_relu[0][0]

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conv5\_block14\_concat (Concatena (None, 4, 4, 960) 0 conv5\_block13\_concat[0][0]

conv5\_block14\_2\_conv[0][0]

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conv5\_block15\_0\_bn (BatchNormal (None, 4, 4, 960) 3840 conv5\_block14\_concat[0][0]

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conv5\_block15\_0\_relu (Activatio (None, 4, 4, 960) 0 conv5\_block15\_0\_bn[0][0]

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conv5\_block15\_1\_conv (Conv2D) (None, 4, 4, 128) 122880 conv5\_block15\_0\_relu[0][0]

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conv5\_block15\_1\_bn (BatchNormal (None, 4, 4, 128) 512 conv5\_block15\_1\_conv[0][0]

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conv5\_block15\_1\_relu (Activatio (None, 4, 4, 128) 0 conv5\_block15\_1\_bn[0][0]

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conv5\_block15\_2\_conv (Conv2D) (None, 4, 4, 32) 36864 conv5\_block15\_1\_relu[0][0]

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conv5\_block15\_concat (Concatena (None, 4, 4, 992) 0 conv5\_block14\_concat[0][0]

conv5\_block15\_2\_conv[0][0]

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conv5\_block16\_0\_bn (BatchNormal (None, 4, 4, 992) 3968 conv5\_block15\_concat[0][0]

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conv5\_block16\_0\_relu (Activatio (None, 4, 4, 992) 0 conv5\_block16\_0\_bn[0][0]

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conv5\_block16\_1\_conv (Conv2D) (None, 4, 4, 128) 126976 conv5\_block16\_0\_relu[0][0]

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conv5\_block16\_1\_bn (BatchNormal (None, 4, 4, 128) 512 conv5\_block16\_1\_conv[0][0]

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conv5\_block16\_1\_relu (Activatio (None, 4, 4, 128) 0 conv5\_block16\_1\_bn[0][0]

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conv5\_block16\_2\_conv (Conv2D) (None, 4, 4, 32) 36864 conv5\_block16\_1\_relu[0][0]

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conv5\_block16\_concat (Concatena (None, 4, 4, 1024) 0 conv5\_block15\_concat[0][0]

conv5\_block16\_2\_conv[0][0]

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bn (BatchNormalization) (None, 4, 4, 1024) 4096 conv5\_block16\_concat[0][0]

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relu (Activation) (None, 4, 4, 1024) 0 bn[0][0]

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global\_average\_pooling2d\_1 (Glo (None, 1024) 0 relu[0][0]

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dense\_1 (Dense) (None, 256) 262400 global\_average\_pooling2d\_1[0][0]

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dropout\_1 (Dropout) (None, 256) 0 dense\_1[0][0]

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dense\_2 (Dense) (None, 256) 65792 dropout\_1[0][0]

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dropout\_2 (Dropout) (None, 256) 0 dense\_2[0][0]

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dense\_3 (Dense) (None, 256) 65792 dropout\_2[0][0]

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dropout\_3 (Dropout) (None, 256) 0 dense\_3[0][0]

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dense\_4 (Dense) (None, 128) 32896 dropout\_3[0][0]

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dense\_5 (Dense) (None, 24) 3096 dense\_4[0][0]

==================================================================================================

Total params: 7,467,480

Trainable params: 7,383,832

Non-trainable params: 83,648

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Epoch 1/30

413/413 [==============================] - 167s 405ms/step - loss: 0.9515 - acc: 0.6719 - val\_loss: 3.9608 - val\_acc: 0.3822

Epoch 2/30

413/413 [==============================] - 150s 364ms/step - loss: 0.5202 - acc: 0.8205 - val\_loss: 1.2106 - val\_acc: 0.7053

Epoch 3/30

413/413 [==============================] - 150s 362ms/step - loss: 0.4297 - acc: 0.8636 - val\_loss: 1.9199 - val\_acc: 0.6240

Epoch 4/30

413/413 [==============================] - 151s 365ms/step - loss: 0.3411 - acc: 0.8958 - val\_loss: 2.1518 - val\_acc: 0.6228

Epoch 00004: ReduceLROnPlateau reducing learning rate to 0.00020000000949949026.

Epoch 5/30

413/413 [==============================] - 149s 362ms/step - loss: 0.1799 - acc: 0.9450 - val\_loss: 1.0201 - val\_acc: 0.7952

Epoch 6/30

413/413 [==============================] - 152s 367ms/step - loss: 0.1503 - acc: 0.9563 - val\_loss: 1.0583 - val\_acc: 0.7890

Epoch 7/30

413/413 [==============================] - 150s 364ms/step - loss: 0.1359 - acc: 0.9598 - val\_loss: 0.9598 - val\_acc: 0.8107

Epoch 8/30

413/413 [==============================] - 152s 369ms/step - loss: 0.1200 - acc: 0.9647 - val\_loss: 0.9201 - val\_acc: 0.8279

Epoch 9/30

413/413 [==============================] - 150s 363ms/step - loss: 0.1103 - acc: 0.9659 - val\_loss: 1.0642 - val\_acc: 0.8059

Epoch 10/30

413/413 [==============================] - 150s 363ms/step - loss: 0.1043 - acc: 0.9683 - val\_loss: 1.0216 - val\_acc: 0.8237

Epoch 00010: ReduceLROnPlateau reducing learning rate to 4.0000001899898055e-05.

Epoch 11/30

413/413 [==============================] - 150s 363ms/step - loss: 0.0970 - acc: 0.9694 - val\_loss: 0.9141 - val\_acc: 0.8456

Epoch 12/30

413/413 [==============================] - 151s 365ms/step - loss: 0.0852 - acc: 0.9736 - val\_loss: 0.8957 - val\_acc: 0.8507

Epoch 13/30

413/413 [==============================] - 150s 362ms/step - loss: 0.0832 - acc: 0.9726 - val\_loss: 0.9663 - val\_acc: 0.8358

Epoch 14/30

413/413 [==============================] - 150s 363ms/step - loss: 0.0848 - acc: 0.9724 - val\_loss: 0.8901 - val\_acc: 0.8504

Epoch 00014: ReduceLROnPlateau reducing learning rate to 8.000000525498762e-06.

Epoch 15/30

413/413 [==============================] - 150s 363ms/step - loss: 0.0821 - acc: 0.9737 - val\_loss: 0.8781 - val\_acc: 0.8534

Epoch 16/30

413/413 [==============================] - 150s 364ms/step - loss: 0.0824 - acc: 0.9729 - val\_loss: 0.8929 - val\_acc: 0.8491

Epoch 17/30

413/413 [==============================] - 150s 362ms/step - loss: 0.0797 - acc: 0.9738 - val\_loss: 0.8891 - val\_acc: 0.8512

Epoch 00017: ReduceLROnPlateau reducing learning rate to 1.6000001778593287e-06.

Epoch 18/30

413/413 [==============================] - 150s 362ms/step - loss: 0.0755 - acc: 0.9750 - val\_loss: 0.8914 - val\_acc: 0.8511

Epoch 19/30

413/413 [==============================] - 149s 361ms/step - loss: 0.0770 - acc: 0.9757 - val\_loss: 0.8855 - val\_acc: 0.8512

Epoch 00019: ReduceLROnPlateau reducing learning rate to 3.200000264769187e-07.

Epoch 20/30

413/413 [==============================] - 150s 364ms/step - loss: 0.0822 - acc: 0.9732 - val\_loss: 0.8889 - val\_acc: 0.8515

Epoch 21/30

413/413 [==============================] - 150s 363ms/step - loss: 0.0772 - acc: 0.9736 - val\_loss: 0.8835 - val\_acc: 0.8520

Epoch 00021: ReduceLROnPlateau reducing learning rate to 6.400000529538374e-08.

Epoch 22/30

413/413 [==============================] - 149s 362ms/step - loss: 0.0811 - acc: 0.9744 - val\_loss: 0.8863 - val\_acc: 0.8532

Epoch 23/30

413/413 [==============================] - 150s 363ms/step - loss: 0.0759 - acc: 0.9751 - val\_loss: 0.8857 - val\_acc: 0.8519

Epoch 00023: ReduceLROnPlateau reducing learning rate to 1.2800001059076749e-08.

Epoch 24/30

413/413 [==============================] - 150s 362ms/step - loss: 0.0781 - acc: 0.9750 - val\_loss: 0.8833 - val\_acc: 0.8523

Epoch 25/30

413/413 [==============================] - 149s 362ms/step - loss: 0.0781 - acc: 0.9748 - val\_loss: 0.8873 - val\_acc: 0.8518

Epoch 00025: ReduceLROnPlateau reducing learning rate to 2.5600002118153498e-09.

Epoch 26/30

413/413 [==============================] - 150s 362ms/step - loss: 0.0810 - acc: 0.9735 - val\_loss: 0.8830 - val\_acc: 0.8523

Epoch 27/30

413/413 [==============================] - 149s 362ms/step - loss: 0.0804 - acc: 0.9735 - val\_loss: 0.8820 - val\_acc: 0.8520

Epoch 00027: ReduceLROnPlateau reducing learning rate to 5.1200004236307e-10.

Epoch 28/30

413/413 [==============================] - 150s 362ms/step - loss: 0.0809 - acc: 0.9733 - val\_loss: 0.8875 - val\_acc: 0.8515

Epoch 29/30

413/413 [==============================] - 149s 361ms/step - loss: 0.0816 - acc: 0.9730 - val\_loss: 0.8867 - val\_acc: 0.8515

Epoch 00029: ReduceLROnPlateau reducing learning rate to 1.0240001069306004e-10.

Epoch 30/30

413/413 [==============================] - 151s 366ms/step - loss: 0.0819 - acc: 0.9732 - val\_loss: 0.8836 - val\_acc: 0.8521

run: =

Found 240 images belonging to 24 classes.

loss: 1334.90%

acc: 7.50%

Took 2 seconds to evaluate this set.

Took 2 seconds to get predictions on this set.

[ 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 2 2 2 2

2 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4 4

4 4 5 5 5 5 5 5 5 5 5 5 6 6 6 6 6 6 6 6 6 6 7 7

7 7 7 7 7 7 7 7 8 8 8 8 8 8 8 8 8 8 9 9 9 9 9 9

9 9 9 9 10 10 10 10 10 10 10 10 10 10 11 11 11 11 11 11 11 11 11 11

12 12 12 12 12 12 12 12 12 12 13 13 13 13 13 13 13 13 13 13 14 14 14 14

14 14 14 14 14 14 15 15 15 15 15 15 15 15 15 15 16 16 16 16 16 16 16 16

16 16 17 17 17 17 17 17 17 17 17 17 18 18 18 18 18 18 18 18 18 18 19 19

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11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 17 17 17 11 11 17 11 11 11

17 17 17 11 17 17 17 17 17 17 17 11 11 11 23 23 23 23 23 11 11 11 11 11]

C:\Users\ASUS-PC\AppData\Local\Programs\Python\Python36\lib\site-packages\sklearn\metrics\classification.py:1143: UndefinedMetricWarning: Precision and F-score are ill-defined and being set to 0.0 in labels with no predicted samples.

'precision', 'predicted', average, warn\_for)

precision recall f1-score support

a 0.00 0.00 0.00 10

b 0.00 0.00 0.00 10

c 0.00 0.00 0.00 10

d 0.00 0.00 0.00 10

e 0.00 0.00 0.00 10

f 0.00 0.00 0.00 10

g 0.00 0.00 0.00 10

h 0.00 0.00 0.00 10

i 0.00 0.00 0.00 10

k 0.00 0.00 0.00 10

l 0.00 0.00 0.00 10

m 0.06 0.90 0.12 10

n 0.00 0.00 0.00 10

o 0.00 0.00 0.00 10

p 0.00 0.00 0.00 10

q 0.00 0.00 0.00 10

r 0.00 0.00 0.00 10

s 0.05 0.40 0.09 10

t 0.00 0.00 0.00 10

u 0.00 0.00 0.00 10

v 0.00 0.00 0.00 10

w 0.00 0.00 0.00 10

x 0.00 0.00 0.00 10

y 0.38 0.50 0.43 10

micro avg 0.07 0.07 0.07 240

macro avg 0.02 0.07 0.03 240

weighted avg 0.02 0.07 0.03 240

PS C:\r\transfer learning>