

09151311\_2.md

## Stats

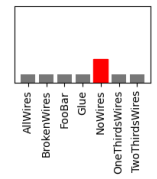
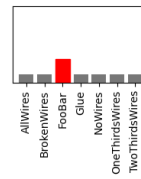
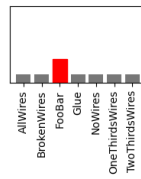
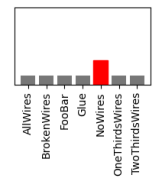
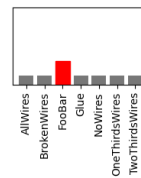
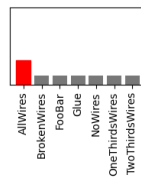
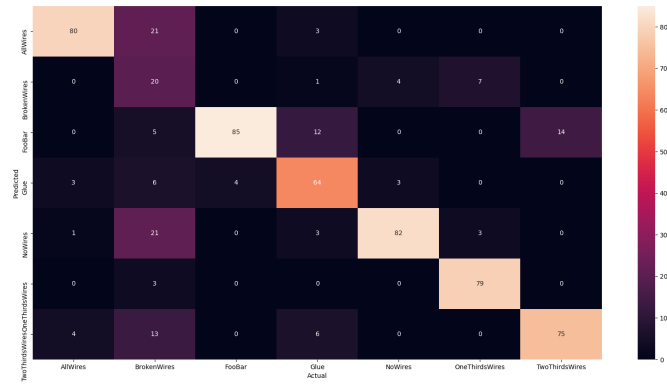
Total Tests: 622  
correct predictions: 485  
incorrect predictions: 137  
Percentage correct: 77.97%

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Most missed predictions

AllWires: 8  
BrokenWires: 69  
FooBar: 4  
Glue: 25  
NoWires: 7  
OneThirdsWires: 10  
TwoThirdsWires: 14

## Confusion Matrix



### Random Samples

### Model Summary Model: "sequential"

Layer (type)	Output Shape	Param #
rescaling (Rescaling)	(None, 480, 480, 3)	0
conv2d (Conv2D)	(None, 480, 480, 16)	448
conv2d_1 (Conv2D)	(None, 480, 480, 16)	2320
max_pooling2d (MaxPooling2D)	(None, 240, 240, 16)	0
conv2d_2 (Conv2D)	(None, 240, 240, 16)	2320
conv2d_3 (Conv2D)	(None, 240, 240, 16)	2320
max_pooling2d_1 (MaxPooling2D)	(None, 120, 120, 16)	0
conv2d_4 (Conv2D)	(None, 120, 120, 32)	4640

conv2d_5 (Conv2D)	(None, 120, 120, 32)	9248	
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batch_normalization (Batch Normalization)	(None, 120, 120, 32)	128	
max_pooling2d_2 (MaxPooling2D)	(None, 60, 60, 32)	0	
conv2d_6 (Conv2D)	(None, 60, 60, 32)	9248	
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conv2d_7 (Conv2D)	(None, 60, 60, 32)	9248	
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max_pooling2d_3 (MaxPooling2D)	(None, 30, 30, 32)	0	
conv2d_8 (Conv2D)	(None, 30, 30, 32)	9248	
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conv2d_9 (Conv2D)	(None, 30, 30, 32)	9248	
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max_pooling2d_4 (MaxPooling2D)	(None, 15, 15, 32)	0	
conv2d_10 (Conv2D)	(None, 15, 15, 32)	9248	
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conv2d_11 (Conv2D)	(None, 15, 15, 32)	9248	
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max_pooling2d_5 (MaxPooling2D)	(None, 7, 7, 32)	0	
conv2d_12 (Conv2D)	(None, 7, 7, 32)	9248	
-----			
conv2d_13 (Conv2D)	(None, 7, 7, 32)	9248	
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max_pooling2d_6 (MaxPooling2D)	(None, 3, 3, 32)	0	
conv2d_14 (Conv2D)	(None, 3, 3, 64)	18496	
-----			
max_pooling2d_7 (MaxPooling2D)	(None, 1, 1, 64)	0	
flatten (Flatten)	(None, 64)	0	
dense (Dense)	(None, 128)	8320	
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dropout (Dropout)	(None, 128)	0	
dense_1 (Dense)	(None, 32)	4128	
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dense_2 (Dense)	(None, 32)	1056	
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dense_3 (Dense)	(None, 7)	231	
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Total params: 127,639 Trainable params: 127,575 Non-trainable			
params: 64			