

09\_15\_15109

### Stats

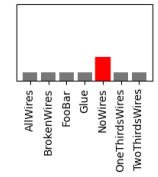
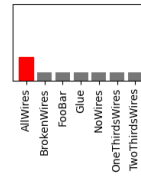
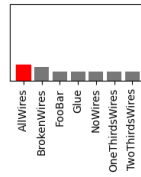
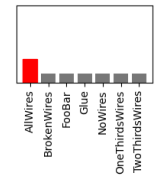
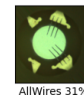
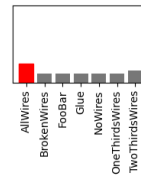
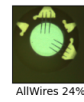
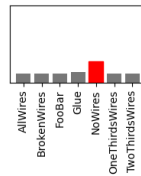
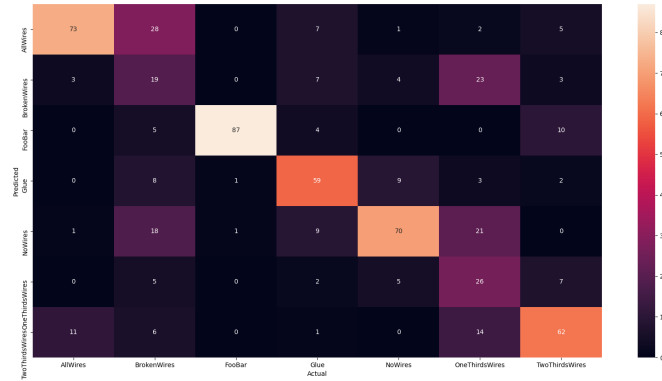
Total Tests: 622  
correct predictions: 396  
incorrect predictions: 226  
Percentage correct: 63.67%

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Most missed predictions

AllWires: 15  
BrokenWires: 70  
FooBar: 2  
Glue: 30  
NoWires: 19  
OneThirdsWires: 63  
TwoThirdsWires: 27

## 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  |  |
| -----   |                      |       |  |
| 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  |  |
| -----   |                      |       |  |
| conv2d_7 (Conv2D)   | (None, 60, 60, 32)   | 9248  |  |
| -----   |                      |       |  |
| max_pooling2d_3 (MaxPooling2D)                                | (None, 30, 30, 32)   | 0     |  |
| conv2d_8 (Conv2D)   | (None, 30, 30, 32)   | 9248  |  |
| -----   |                      |       |  |
| conv2d_9 (Conv2D)   | (None, 30, 30, 32)   | 9248  |  |
| -----   |                      |       |  |
| max_pooling2d_4 (MaxPooling2D)                                | (None, 15, 15, 32)   | 0     |  |
| conv2d_10 (Conv2D)  | (None, 15, 15, 32)   | 9248  |  |
| -----   |                      |       |  |
| conv2d_11 (Conv2D)  | (None, 15, 15, 32)   | 9248  |  |
| -----   |                      |       |  |
| 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  |  |
| -----   |                      |       |  |
| 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  |  |
| -----   |                      |       |  |
| dropout (Dropout)   | (None, 128)          | 0     |  |
| dense_1 (Dense)   | (None, 32)           | 4128  |  |
| -----   |                      |       |  |
| dense_2 (Dense)   | (None, 32)           | 1056  |  |
| -----   |                      |       |  |
| dense_3 (Dense)   | (None, 7)            | 231   |  |
| =====   |                      |       |  |
| Total params: 127,639 Trainable params: 127,575 Non-trainable |                      |       |  |
| params: 64  |                      |       |  |