

Image Classification

AlexNet			
Guess T1	1149	Classification T	< 6s
Guess T5	2068	Model Size	216 MB
Total	3923	Resources	Low
TOP 1	29.29%	Expected TOP 1	57.10%
TOP 5	52.71%	Expected TOP 5	80.20%

GrayScale		
Guess T1	1027	-122
Guess T5	1863	-205
Total	3923	0
TOP 1	26.18%	-3.11%
TOP 5	47.49%	-5.23%

SqueezeNet			
Guess T1	1135	Classification T	< 6s
Guess T5	2113	Model Size	5 MB
Total	3923	Resources	Low
TOP 1	28.93%	Expected TOP 1	57.50%
TOP 5	53.86%	Expected TOP 5	80.30%

GrayScale		
Guess T1	939	-196
Guess T5	1846	-267
Total	3923	0
TOP 1	23.94%	-5.00%
TOP 5	47.06%	-6.81%

MobileNet			
Guess T1	4	Classification T	< 6s
Guess T5	21	Model Size	13 MB
Total	3923	Resources	Low
TOP 1	0.10%	Expected TOP 1	70.94%
TOP 5	0.54%	Expected TOP 5	89.99%

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Inception BN			
Guess T1	2366	Classification T	< 6s
Guess T5	3326	Model Size	41 MB
Total	3923	Resources	Low
TOP 1	60.31%	Expected TOP 1	82.80%
TOP 5	84.78%	Expected TOP 5	96.42%

GrayScale		
Guess T1	2184	-182
Guess T5	3151	-175
Total	3923	0
TOP 1	55.67%	-4.64%
TOP 5	80.32%	-4.46%

MX VGG19			
Guess T1	2315	Classification T	~ 10s
Guess T5	3217	Model Size	509 MB
Total	3923	Resources	High
TOP 1	59.01%	Expected TOP 1	73.72%
TOP 5	82.00%	Expected TOP 5	91.58%

GrayScale		
Guess T1	1613	-702
Guess T5	2587	-630
Total	3923	0
TOP 1	41.12%	-17.89%
TOP 5	65.94%	-16.06%

ResNet152 V2			
Guess T1	6	Classification T	> 6s
Guess T5	29	Model Size	215 MB
Total	3923	Resources	Low
TOP 1	0.15%	Expected TOP 1	77.42%
TOP 5	0.74%	Expected TOP 5	94.21%

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ResNet50 V2			
Guess T1	28	Classification T	> 6s
Guess T5	80	Model Size	91 MB
Total	3923	Resources	Low
TOP 1	0.71%	Expected TOP 1	75.81%
TOP 5	2.04%	Expected TOP 5	92.82%

VGG16 BN			
Guess T1	33	Classification T	> 6s
Guess T5	106	Model Size	489 MB
Total	3923	Resources	High
TOP 1	0.84%	Expected TOP 1	72.71%
TOP 5	2.70%	Expected TOP 5	91.21%

VGG19			
Guess T1	1749	Classification T	> 6s
Guess T5	2719	Model Size	509 MB
Total	3923	Resources	High
TOP 1	44.58%	Expected TOP 1	73.72%
TOP 5	69.31%	Expected TOP 5	91.58%

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VCC19 BN			
Guess T1	30	Classification T	~ 10s
Guess T5	106	Model Size	507 MB
Total	3923	Resources	High
TOP 1	0.76%	Expected TOP 1	73.83%
TOP 5	2.70%	Expected TOP 5	91.79%

MX Resnet152			
Guess T1	2844	Classification T	< 6s
Guess T5	3596	Model Size	215 MB
Total	3923	Resources	Medium
TOP 1	72.50%	Expected TOP 1	77.42%
TOP 5	91.66%	Expected TOP 5	94.21%

GrayScale		
Guess T1	2610	-234
Guess T5	3451	-145
Total	3923	0
TOP 1	66.53%	-5.96%
TOP 5	87.97%	-3.70%

Tiny YOLO	
Correct Guesses	12964
Total Images	17125
Detection Time	~ 1s
Model Size	60MB
Precision	75.70%

YOLO V2	
Correct Guesses	6119
Total Images	6432
Detection Time	~ 6s
Model Size	200MB
Precision	95.13%