

### Experimental result

Model	Epochs	Batchsize	Learning rate	AdaptiveAvgPool2d	Image size	Accuracy
Resnet50	50	64	1e-3 (constant)	No	224x224	0.496
Resnet50	50	64	1e-3 (constant)	Yes	224x224	0.360
Resnet50	50	32	1e-3 (constant)	No	224x224	0.494
Resnet50	50	32	1e-3 (constant)	Yes	224x224	0.524
Resnet50	50	16	1e-3 (constant)	No	224x224	0.536
Resnet50	50	16	1e-3 (constant)	Yes	224x224	0.387
Resnet50	100	8	1e-3 (plateau)	No	224x224	0.519
Resnet50	100	16	1e-3 (plateau)	No	512x512	0.531
Resnet50	100	8	1e-3 (plateau)	No	512x512	0.516
Resnet50	50	4	1e-3 (constant)	No	512x512	0.521
Resnet50	50	4	1e-3 (constant)	Yes	512x512	0.536
Resnet50	100	2	1e-3 (plateau)	No	512x512	0.536
Resnet50	50	8	1e-3 (constant)	No	1024x1024	0.529
Resnet50	50	8	1e-3 (constant)	Yes	1024x1024	0.536
Resnet50	50	4	1e-3 (constant)	No	1024x1024	0.536 (all predictions are class 2)
Resnet50	50	4	1e-3 (constant)	Yes	1024x1024	0.536
Resnet50	50	2	1e-3 (constant)	No	1024x1024	0.536
Resnet50	50	2	1e-3 (constant)	Yes	1024x1024	0.536
Resnet50	50	4	1e-3 (plateau)	No	2048x2048	CUDA out of memory error
Resnet50	100	2	1e-3 (plateau)	No	2048x2048	0.536
Resnet50	100	1	1e-3 (plateau)	No	2048x2048	0.536