

Network Architecture	Activation Volume	Volume size	Memory
input	256x256x5	327680	1310725
conv(5,64)	256x256x64	4194304	16777221
conv(64,64)	256x256x64	4194304	16777221
maxpool(2)	128x128x64	1048576	4194309
conv(64,128)	128x128x128	2097152	8388613
conv(128,128)	128x128x128	2097152	8388613
maxpool(2)	64x64x128	524288	2097157
conv(128,256)	64x64x256	1048576	4194309
conv(256,256)	64x64x256	1048576	4194309
conv(256,256)	64x64x256	1048576	4194309
maxpool(2)	32x32x256	262144	1048581
conv(256,512)	32x32x512	524288	2097157
conv(512,512)	32x32x512	524288	2097157
conv(512,512)	32x32x512	524288	2097157
maxpool(2)	16x16x512	131072	524293
conv(512,512)	16x16x512	131072	524293
conv(512,512)	16x16x512	131072	524293
conv(512,512)	16x16x512	131072	524293
maxpool(2)	8x8x512	32768	131077
<i>Total (branch)</i>			80084992 \approx 80 MB
FC1	1x1x4096	4096	16389
FC2	1x1x4096	4096	16389
FC3	1x1x40	40	165
<i>Total</i>			\approx 112 MB.