

SimpleImageClassifierEkon26_70.nn

epoch	training accuracy	training loss	training error	validation accuracy	validation loss	validation error	learning rate	time	test accuracy	test loss	test error
1	0.4818	1.4144	1.2925	0.565	1.2546	1.1312	0.001	1719			
2	0.5352	1.2832	1.1449	0.5804	1.213	1.1106	0.001	3418			
3	0.563	1.209	1.1331	0.6001	1.1607	1.0833	0.001	5087			
4	0.5895	1.1791	1.0208	0.6215	1.1082	1.0523	0.001	6746			
5	0.5899	1.1703	1.0714	0.6377	1.0608	1.0211	0.001	8413			
6	0.6053	1.2085	0.9585	0.6546	1.0153	0.9873	0.001	10076			
7	0.6069	1.4361	1.1706	0.6725	0.971	0.9537	0.001	11779			
8	0.6118	1.1167	0.9334	0.6877	0.9274	0.9153	0.001	13503			
9	0.6176	1.2653	1.0883	0.7016	0.8884	0.8761	0.001	15162			
10	0.6202	1.4467	1.2411	0.7143	0.8498	0.8384	0.001	17495	0.713	0.846	0.835
11	0.6309	1.029	0.9614	0.7251	0.8197	0.8018	0.0009044	19153			
12	0.6376	0.9688	0.9123	0.7343	0.7972	0.7766	0.0009044	20805			
13	0.6414	1.0135	0.9228	0.7398	0.7804	0.7583	0.0009044	22464			
14	0.6311	1.2021	1.0262	0.7449	0.7694	0.7468	0.0009044	24126			
15	0.6442	1.0228	1.0104	0.7451	0.7614	0.7391	0.0009044	25793			
16	0.6444	0.9294	0.7627	0.7488	0.7495	0.7297	0.0009044	27512			
17	0.6458	0.7606	0.8086	0.7519	0.7439	0.7225	0.0009044	64742			
18	0.6468	1.1746	0.9601	0.7542	0.7379	0.7168	0.0009044	66493			
19	0.6437	1.0258	0.9614	0.755	0.7305	0.7105	0.0009044	68160			
20	0.6522	0.8661	0.8585	0.7574	0.7271	0.706	0.0009044	70485	0.7558	0.7314	0.7078
21	0.6533	0.9019	0.8247	0.7587	0.7243	0.7005	0.0008179	72131			
22	0.6578	1.0527	0.8298	0.7578	0.7235	0.6954	0.0008179	73772			
23	0.6551	1.1456	0.9707	0.7587	0.7197	0.6903	0.0008179	75417			
24	0.6579	0.8629	0.7952	0.7605	0.7141	0.684	0.0008179	77059			
25	0.66	0.9963	0.9625	0.7612	0.7107	0.6783	0.0008179	78702			
26	0.6619	1.1457	0.9705	0.7624	0.7068	0.6758	0.0008179	80344			
27	0.6598	1.1195	0.878	0.7636	0.7004	0.6694	0.0008179	81984			
28	0.6626	1.1218	1.0101	0.7645	0.698	0.6665	0.0008179	83626			
29	0.6603	1.0173	0.8545	0.7663	0.6955	0.6634	0.0008179	85270			
30	0.6705	0.8133	0.8178	0.7653	0.695	0.661	0.0008179	87593	0.7651	0.7	0.6648

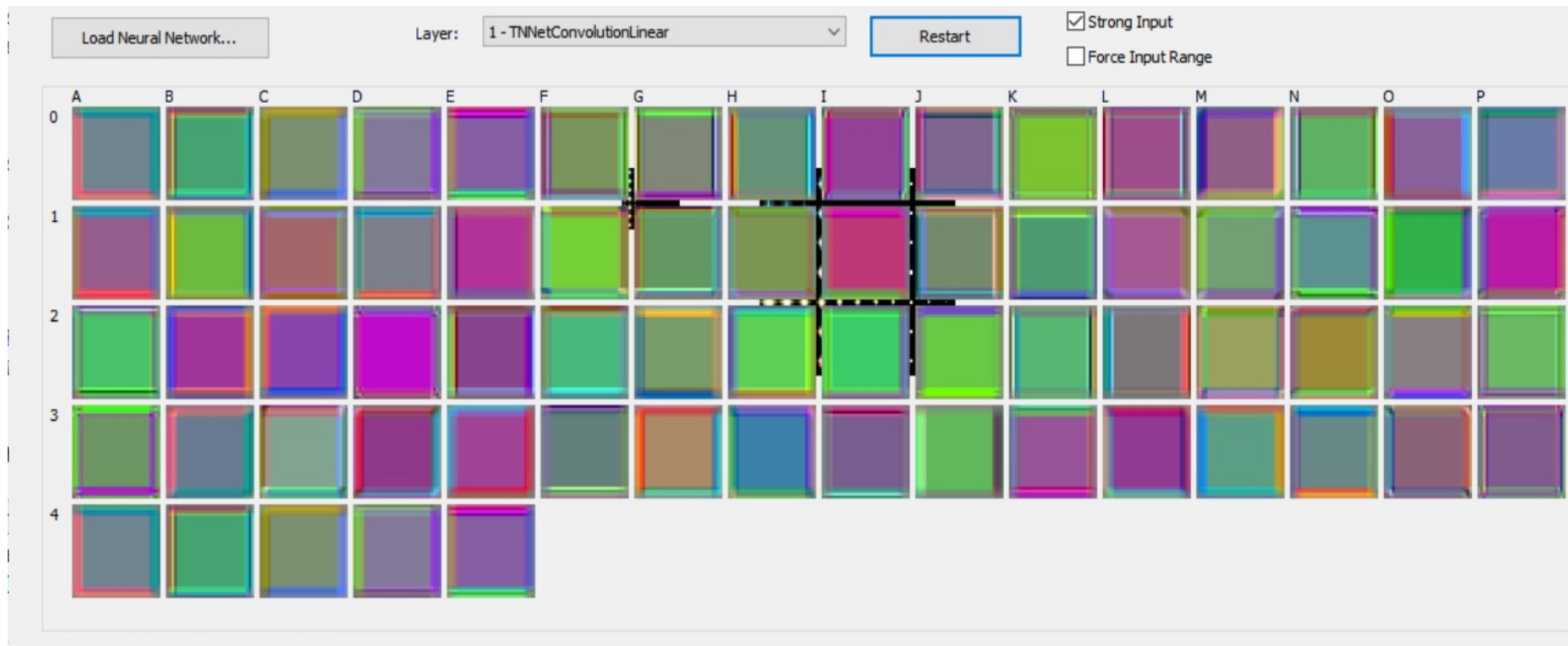
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31	0.6746	0.7643	0.8021	0.766	0.6948	0.6615	0.0007397	89235			
32	0.6793	0.7883	0.8023	0.7679	0.6923	0.661	0.0007397	90877			
33	0.6761	0.945	0.8287	0.7689	0.6893	0.6594	0.0007397	92520			
34	0.6753	1.0283	0.8908	0.7695	0.6853	0.6559	0.0007397	94210			
35	0.6734	1.2202	0.9404	0.7729	0.6803	0.6516	0.0007397	95903			
36	0.6713	1.0191	0.9558	0.7726	0.6808	0.6494	0.0007397	97570			
37	0.6686	0.7408	0.7953	0.7746	0.6759	0.6463	0.0007397	99237			
38	0.6714	0.9089	0.8821	0.7748	0.6782	0.6468	0.0007397	100921			
39	0.6727	0.9776	0.8886	0.7772	0.676	0.6433	0.0007397	102632			
40	0.6785	0.9504	0.8499	0.7791	0.6726	0.6397	0.0007397	104972	0.7741	0.6816	0.6448
41	0.68	1.0292	0.7935	0.7792	0.6737	0.6386	0.000669	106629			
42	0.6817	0.811	0.844	0.7799	0.6699	0.6351	0.000669	108285			
43	0.6817	0.7189	0.7245	0.7794	0.6686	0.633	0.000669	109941			
44	0.6858	0.7424	0.7393	0.7814	0.6672	0.63	0.000669	111597			
45	0.6889	0.9568	0.9302	0.7816	0.6632	0.6281	0.000669	113257			
46	0.6784	0.7771	0.7771	0.7801	0.6599	0.6267	0.000669	114914			
47	0.6837	0.88	0.8211	0.7805	0.6603	0.6277	0.000669	116569			
48	0.6917	0.5768	0.6561	0.7827	0.6554	0.6239	0.000669	118225			
49	0.6907	0.7203	0.7324	0.7832	0.6529	0.6235	0.000669	119879			
50	0.6818	1.132	0.8812	0.7833	0.6532	0.6238	0.000669	122222	0.7808	0.6636	0.6301
51	0.689	1.0803	0.9303	0.783	0.6505	0.6226	0.000605	123874			
52	0.697	0.9386	0.8207	0.7835	0.6532	0.6222	0.000605	125520			
53	0.6926	0.712	0.7518	0.7848	0.6499	0.6191	0.000605	127167			
54	0.684	0.8096	0.7583	0.7836	0.6493	0.6189	0.000605	128815			
55	0.695	0.8556	0.7596	0.7828	0.6532	0.6194	0.000605	130462			
56	0.6905	1.023	0.8951	0.7841	0.6515	0.6177	0.000605	132110			
57	0.6926	1.0784	1.0058	0.7839	0.6522	0.6165	0.000605	133757			
58	0.685	0.9153	0.7899	0.7828	0.6555	0.6172	0.000605	135405			
59	0.6879	0.8987	0.8485	0.7833	0.6524	0.6136	0.000605	137058			
60	0.6865	1.0472	0.8909	0.7851	0.65	0.6104	0.000605	139388	0.7834	0.6569	0.6184

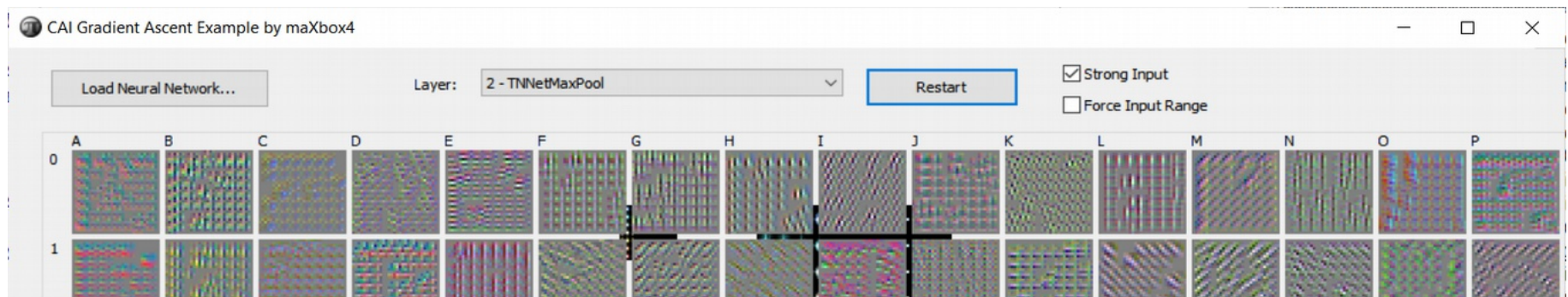
C:\maXbox\works2021\maxbox4\examples\1076_CAI_UVisualGAN2tester13.pas



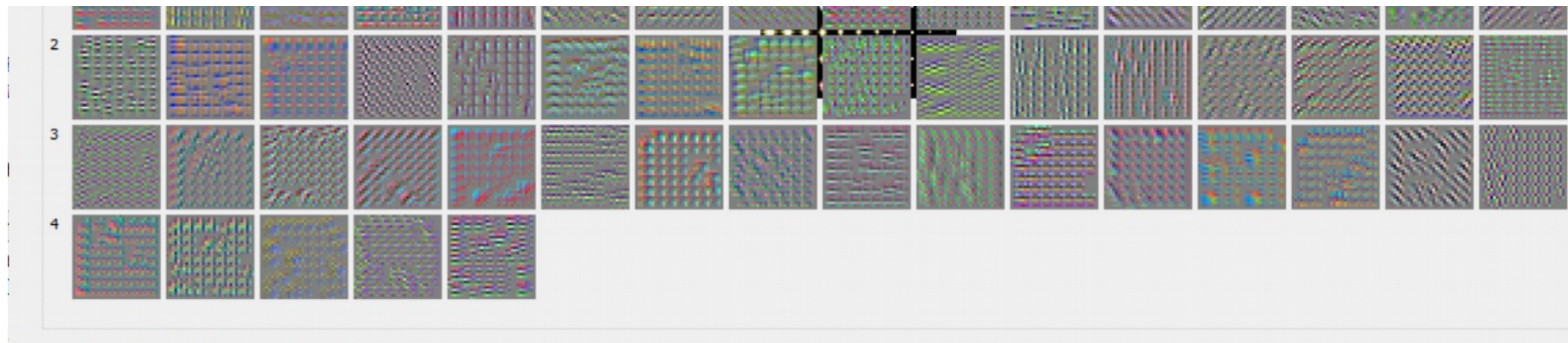
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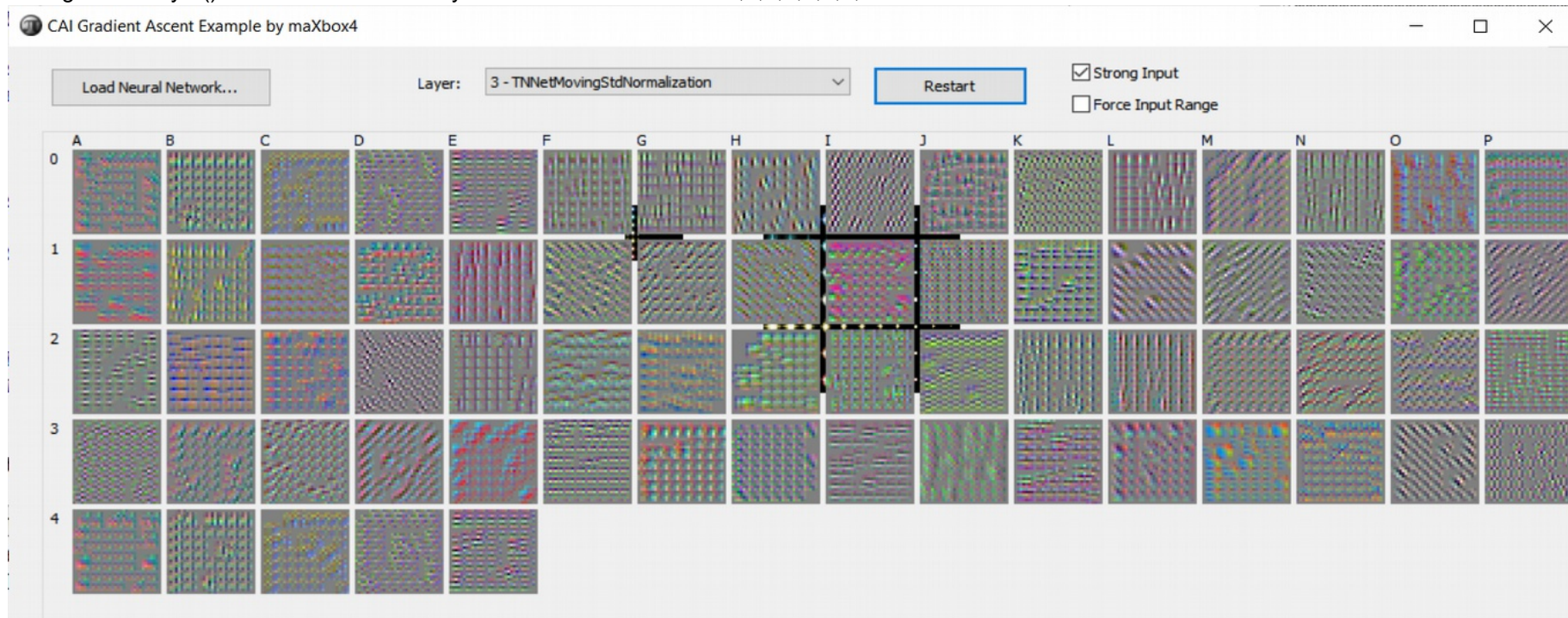
debug createLayer():TNetConvolutionLinear-addLayerAfter0...TNetConvolutionLinear:64;5;2;1;0;0;0



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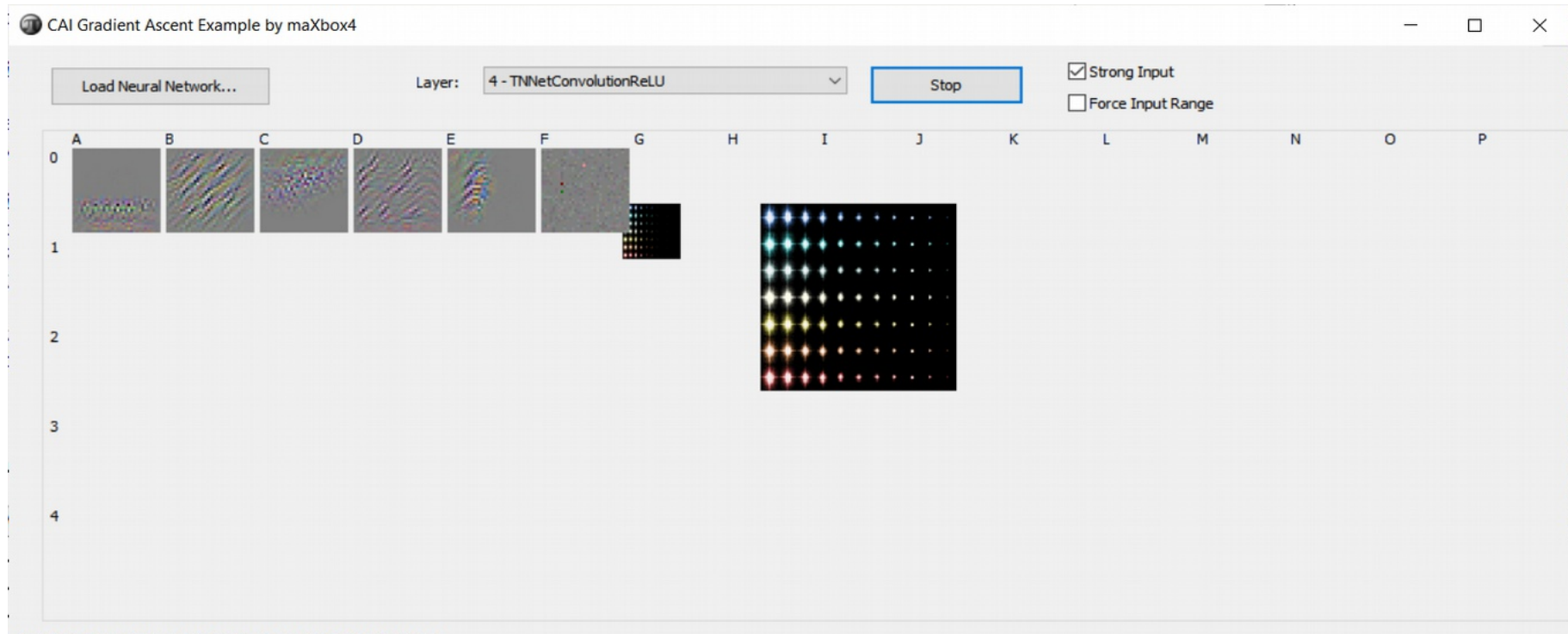


debug createLayer():TNNNetMaxPool-addLayerAfter1...TNNNetMaxPool:4;4;0;0;0;0;0

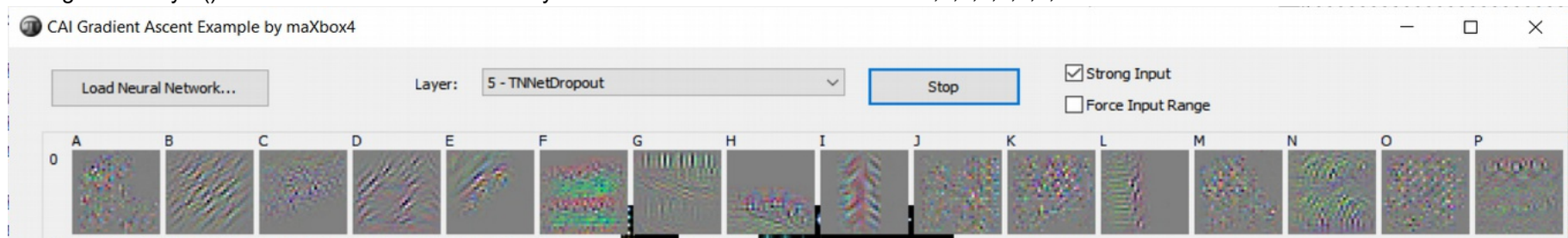


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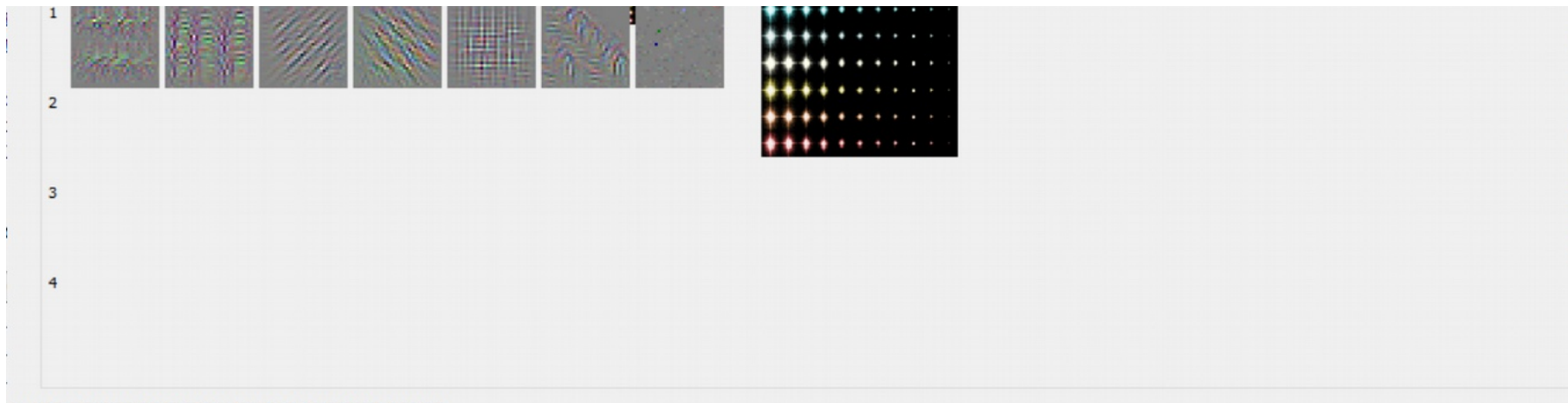
```
debug createLayer():TNNNetMovingStdNormalization-addLayerAfter2...TNNNetMovingStdNormalization:0;0;0;0;0;0;0
```



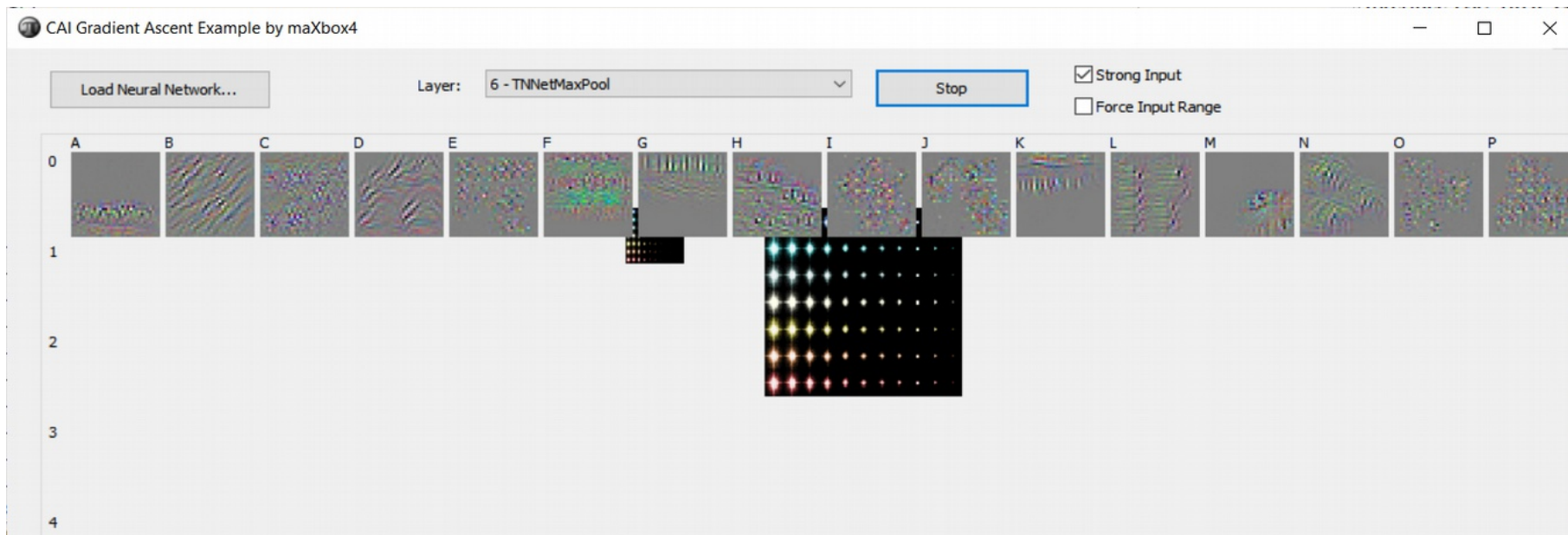
```
debug createLayer():TNNNetConvolutionReLU-addLayerAfter3...TNNNetConvolutionReLU:64;3;1;1;1;0;0;0
```



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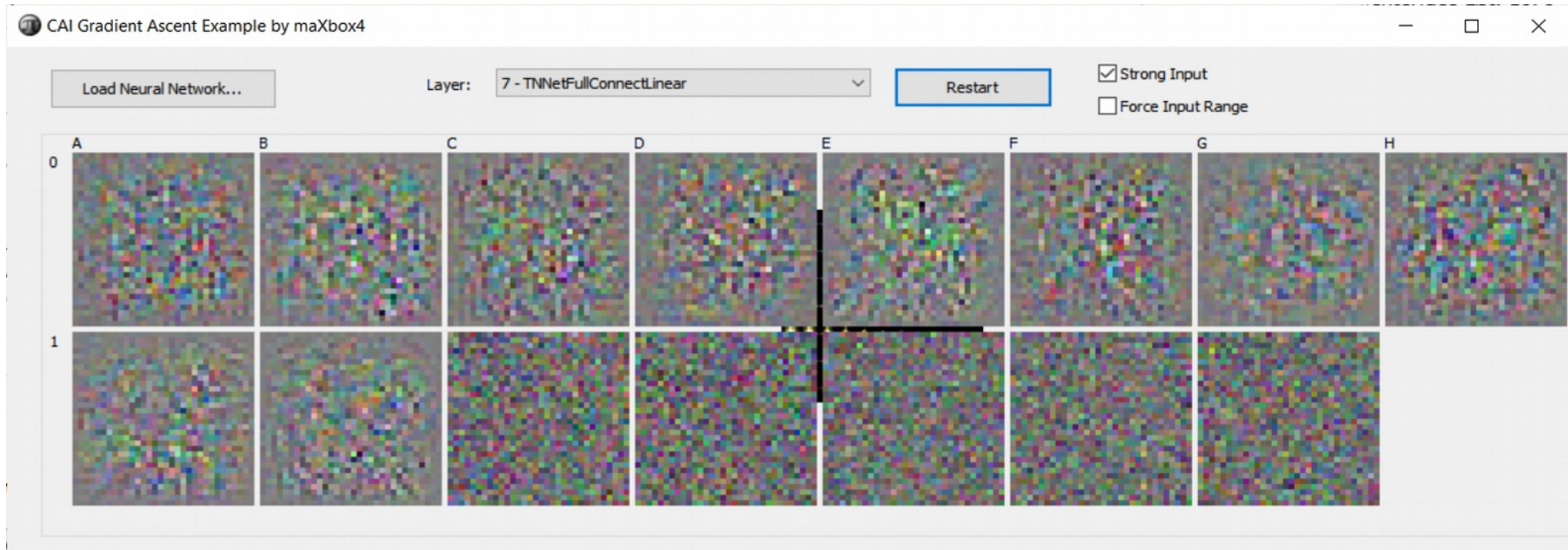


```
debug createLayer():TNNNetDropout-addLayerAfter4...TNNNetDropout:2;0;0;0;0;0;0
```

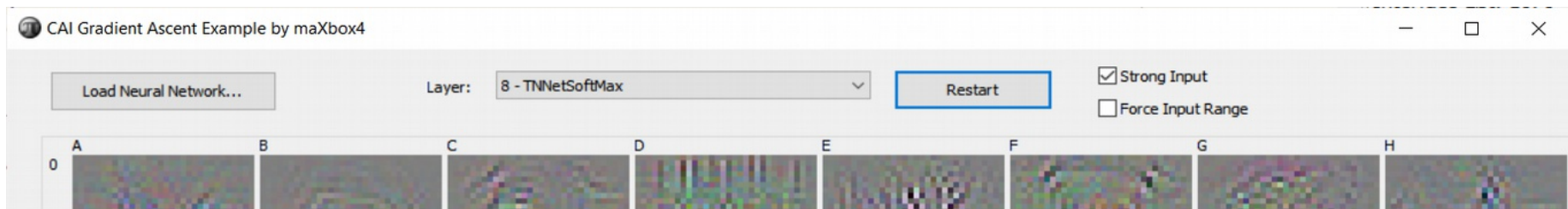


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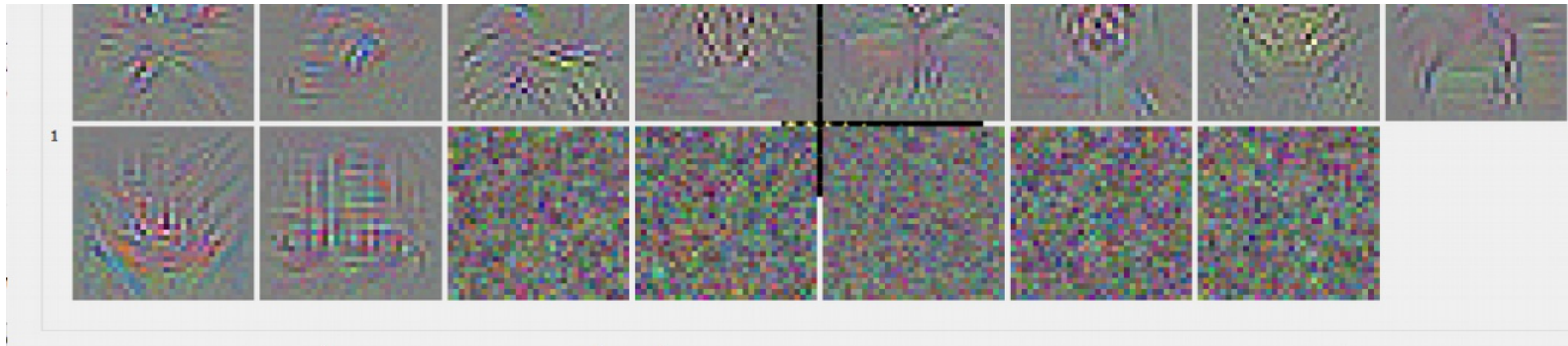
```
debug createLayer():TNNetMaxPool-addLayerAfter5...TNNetMaxPool:2;2;0;0;0;0;0
```



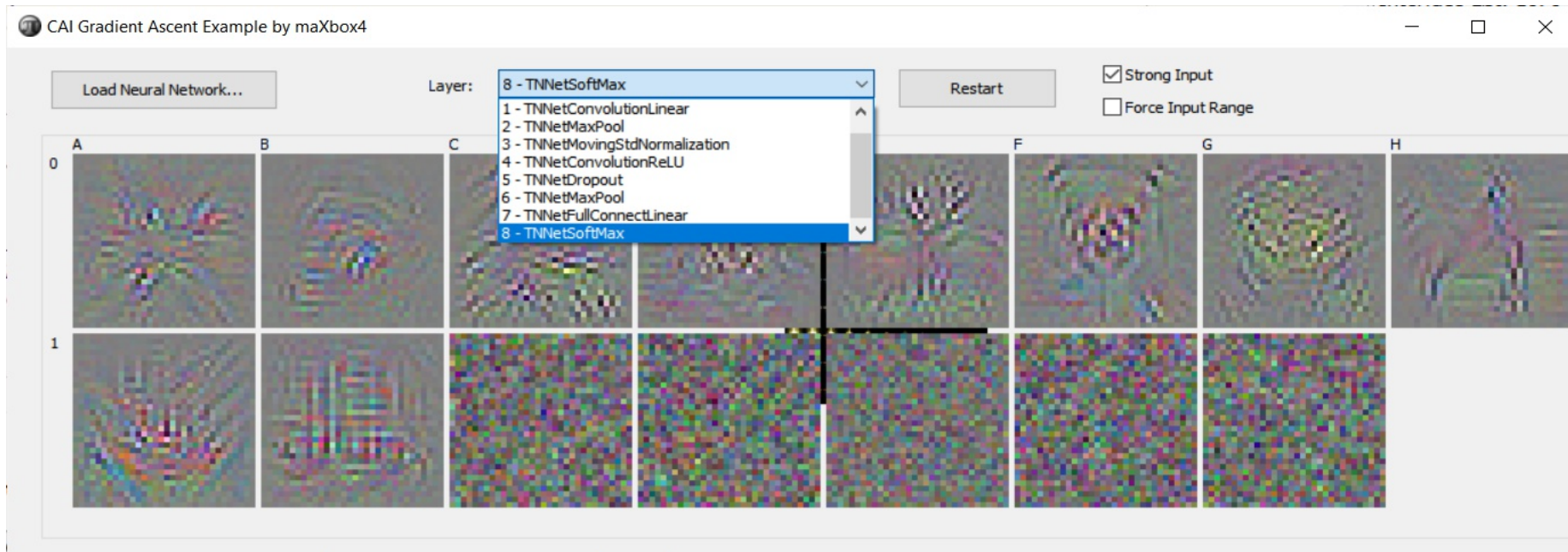
```
debug createLayer():TNNetFullConnectLinear-addLayerAfter6...TNNetFullConnectLinear:10;1;1;0;0;0;0
```



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```
debug createLayer():TNNNetSoftMax-addLayerAfter7...TNNNetSoftMax:0;0;0;0;0;0;0
```



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Debug TNNet.Struct.LoadFromString ST:

-1)TNNetInput:32;32;3;0;0;0;0;0

0)TNNetConvolutionLinear:64;5;2;1;1;0;0;0

1)TNNetMaxPool:4;4;0;0;0;0;0;0

2)TNNetMovingStdNormalization:0;0;0;0;0;0;0;0

3)TNNetConvolutionReLU:64;3;1;1;1;0;0;0

4)TNNetDropout:2;0;0;0;0;0;0;0

5)TNNetMaxPool:2;2;0;0;0;0;0;0

6)TNNetFullConnectLinear:10;1;1;0;0;0;0;0

7)TNNetSoftMax:0;0;0;0;0;0;0;0

debug createLayer():TNNetInput-addLayerAfter-1...TNNetInput:32;32;3;0;0;0;0;0

debug createLayer():TNNetConvolutionLinear-addLayerAfter0...TNNetConvolutionLinear:64;5;2;1;1;0;0;0

debug createLayer():TNNetMaxPool-addLayerAfter1...TNNetMaxPool:4;4;0;0;0;0;0;0

debug createLayer():TNNetMovingStdNormalization-addLayerAfter2...TNNetMovingStdNormalization:0;0;0;0;0;0;0;0

debug createLayer():TNNetConvolutionReLU-addLayerAfter3...TNNetConvolutionReLU:64;3;1;1;1;0;0;0

debug createLayer():TNNetDropout-addLayerAfter4...TNNetDropout:2;0;0;0;0;0;0;0

debug createLayer():TNNetMaxPool-addLayerAfter5...TNNetMaxPool:2;2;0;0;0;0;0;0

debug createLayer():TNNetFullConnectLinear-addLayerAfter6...TNNetFullConnectLinear:10;1;1;0;0;0;0;0

debug createLayer():TNNetSoftMax-addLayerAfter7...TNNetSoftMax:0;0;0;0;0;0;0;0

Debug TNNet Loaded Data Layers:9 SCount:9

Layers: 9

Neurons: 139

Weights: 51906

Sum: -6.29539394378662

Scripts:

C:\maxbox\works2021\maxbox4\examples\1076_CAI_UVisualGAN2tester13.pas

C:\maxbox\works2021\maxbox4\examples\1135_uvisualcifar10test_mX4_14.pas

<https://github.com/maxkleiner/neural-api/tree/master/examples/SimpleImageClassifier>