Backpropagation algorithm								
	W1	0,5	-1		W2	-0,3	0,1	-0,1
		1	-0,2					
		0,3	0,8					
	x (out0)	0,1						
		0,3						
	net1	-0,25		out1	0,437823499			
		0,04			0,509998667			
		0,27			0,567092905			
	net2	-0,13705647		out2	0,465789417		target	1
							E	0,142690473
	delta2	-0,13292742		W2tdelta1	0,039878227		delta1	0,009815391
					-0,01329274			-0,00332186
					0,013292742			0,003263349
	dW1	0,000981539	0,002944617		dW2	-0,05819875	-0,06779281	-0,0753822
		-0,00033219	-0,00099656					
		0,000326335	0,000979005					
	W1p	0,499018461	-1,00294462		W2p	-0,24180125	0,167792809	-0,0246178
		1,000332186	-0,19900344					
		0,299673665	0,799020995					
	x (out0)	0,1						
		0,3						
	net1	-0,25098154		out1	0,437581924			
		0,040332186			0,51008168			
		0,269673665			0,567012788			
	net2	-0,03417843		out2	0,491456225		target	1
							E	0,129308385

Forward propagation in CNN

Original

R(1)								G(2)								B(3)							
1	3	2	0	5	1	1		1	5	5	0	3	1	1		0	0	2	1	2	2	2	
2	0	0	0	1	1	1		2	0	0	0	2	2	1		3	3	0	3	3	3	0	
1	2	2	2	0	1	1		1	2	2	2	1	2	1		1	1	1	0	0	0	1	7x7x3
0	0	0	1	2	3	5		0	0	0	0	0	1	0		0	2	2	2	0	1	0	
2	2	2	2	2	3	4		1	1	2	3	2	3	4		1	1	4	3	2	3	4	
2	5	5	2	1	3	0		3	4	4	1	1	0	0		3	5	5	5	1	0	0	
0	2	1	3	3	3	0		0	0	1	0	3	1	0		0	1	2	2	5	0	0	

Padded

0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
0	1	3	2	0	5	1	1	0		0	1	5	5	0	3	1	1	0		0	0	0	2	1	2	2	2	0
0	2	0	0	0	1	1	1	0		0	2	0	0	0	2	2	1	0		0	3	3	0	3	3	3	0	0
0	1	2	2	2	0	1	1	0		0	1	2	2	2	1	2	1	0		0	1	1	1	0	0	0	1	0
0	0	0	0	1	2	3	5	0		0	0	0	0	0	0	1	0	0		0	0	2	2	2	0	1	0	0
0	2	2	2	2	2	3	4	0		0	1	1	2	3	2	3	4	0		0	1	1	4	3	2	3	4	0
0	2	5	5	2	1	3	0	0		0	3	4	4	1	1	0	0	0		0	3	5	5	5	1	0	0	0
0	0	2	1	3	3	3	0	0		0	0	0	1	0	3	1	0	0		0	0	1	2	2	5	0	0	0
0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0

f1	1	0	1		1	0	0		1	1	1	bias -2
	0	-1	0		-2	0	0		0	0	1	
	0	0	1		0	0	1		1	0	1	

f1out1	0	1	2	3	f1out2	0	1	2	3	f1out3	0	1	2	3	L1outc1				conv3x3
0	-1	-2	-4	-1	0	0	-10	2	-2	0	3	7	8	3	0	-7	4	-2	
1	-1	-1	4	0	1	0	-4	-3	-2	1	9	10	12	4	6	3	11	0	4x4x2
2	3	1	5	-1	2	4	-1	-6	-5	2	8	19	11	1	13	17	8	-7	
3	5	6	2	3	3	0	4	1	-2	3	9	17	6	0	12	25	7	-1	

f1	2	0	1		1	0	1		1	1	1	bias -4
	1	0	0		0	0	0		1	2	1	
	0	0	1		1	0	1		0	1	0	

f2out1	0	1	2	3	f2out2	0	1	2	3	f2out3	0	1	2	3	L1outc2				conv3x3
0	0	3	1	1	0	0	0	2	2	0	3	5	10	6	-1	4	9	5	
1	0	3	6	3	1	0	0	3	3	1	9	11	9	5	5	10	14	7	
2	5	5	10	9	2	4	5	2	1	2	8	23	14	12	13	29	22	18	
3	5	14	10	9	3	4	5	1	0	3	9	22	18	0	14	37	25	5	

L2outc1				L2outc2				ReLu
0	0	4	0	0	4	9	5	
6	3	11	0	5	10	14	7	4x4x2
13	17	8	0	13	29	22	18	
12	25	7	0	14	37	25	5	

L3outc1		L3outc1		Max pooling 2x2	Receptive field of (0,0,0): (0 to 3,0 to 3,0 to 3)
6	11	10	14		
25	8	37	25	2x2x2	

L4out

6	10	11	14	25	37	8	25	1x1x8

1	-1	-1	weights	-2	1	2	bias
2	-2	0					
3	-3	1					
4	-4	2					
5	-5	3					
6	-6	4					
7	-7	5					
8	-8	6					

L5out

716	-717	448		1x1x3
0	-1433	-268	minus max value	
1	0	4E-117	exp(x)	

L6out

1	0	4E-117	exp(x) norm.	1x1x3

CNN volume sizes and weights				
				weights
volume	h	205		
	w	205		
	c	3		
filter	h	11		7280
	w	11		
	f	20		
	s	3		
	p	5		
volume	h	69		
	w	69		
	c	20		
filter	h	7		29430
	w	7		
	f	30		
	s	2		
	p	3		
volume	h	35		
	w	35		
	c	30		
maxpool	h	3		0
	w	3		
	f	30		
	s	2		
	p	0		
volume	h	17		
	w	17		
	c	30		
flatten				0
volume	h	1		
	w	1		
	c	8670		
fc				346840
volume	h	1		
	w	1		
	c	40		
softmax				0
volume	h	1		
	w	1		
	c	40		
				total weights:
				383550