

Backpropagation

X

2
1
3

1

Layer 1

1	-1	1	-5	-1	ReLU ≈	0
1	1	0	0	3		3
0	1	1	1	5		5
1	0	1	-2	3		3

1

Layer 2

1	-1	1	0	0	2	ReLU ≈	2
0	1	-1	1	3	4		4

1

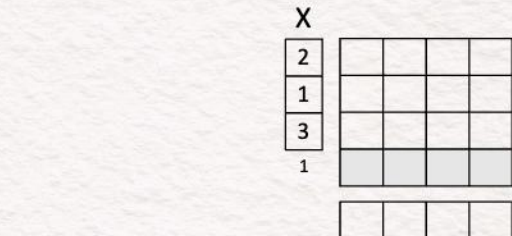
Layer 3

2	0	-1	3	Soft max ≈	.5	0
0	2	-5	3		.5	1
1	1	1	-1		0	0

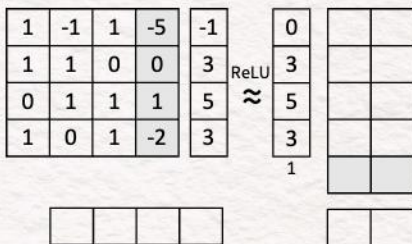
$\hat{Y}^{Pred}$ Y^{Target}

L: Cross-Entropy Loss

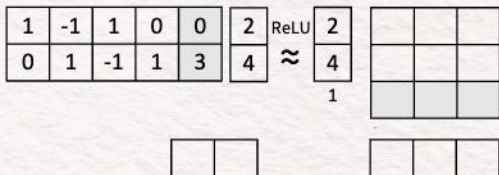
Backpropagation



Layer 1



Layer 2

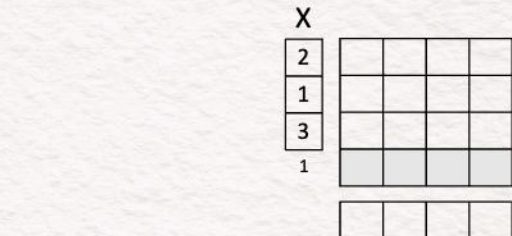


Layer 3

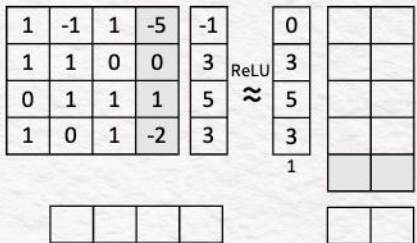


L: Cross-Entropy Loss

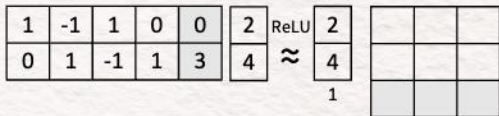
Backpropagation



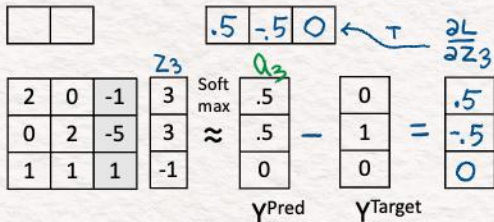
Layer 1



Layer 2

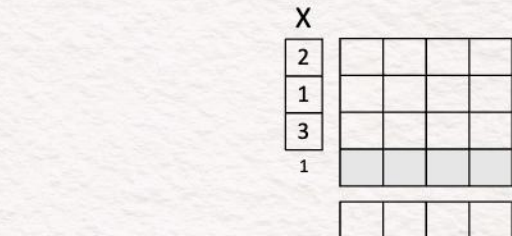


Layer 3

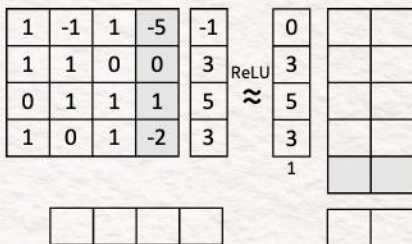


L: Cross-Entropy Loss

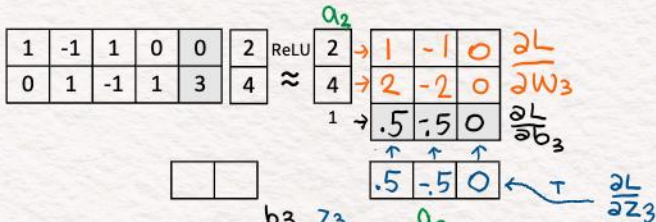
Backpropagation



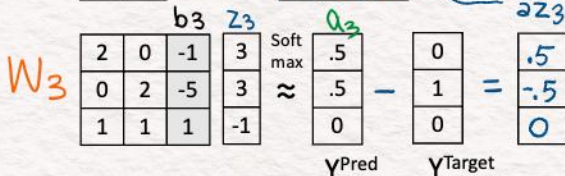
Layer 1



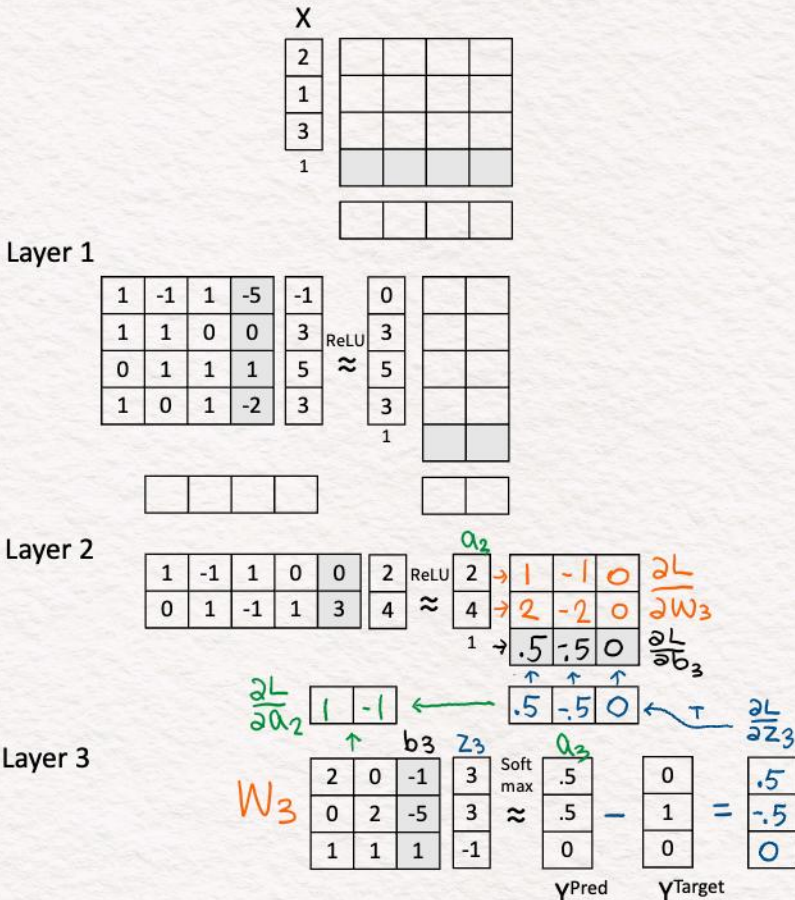
Layer 2



Layer 3

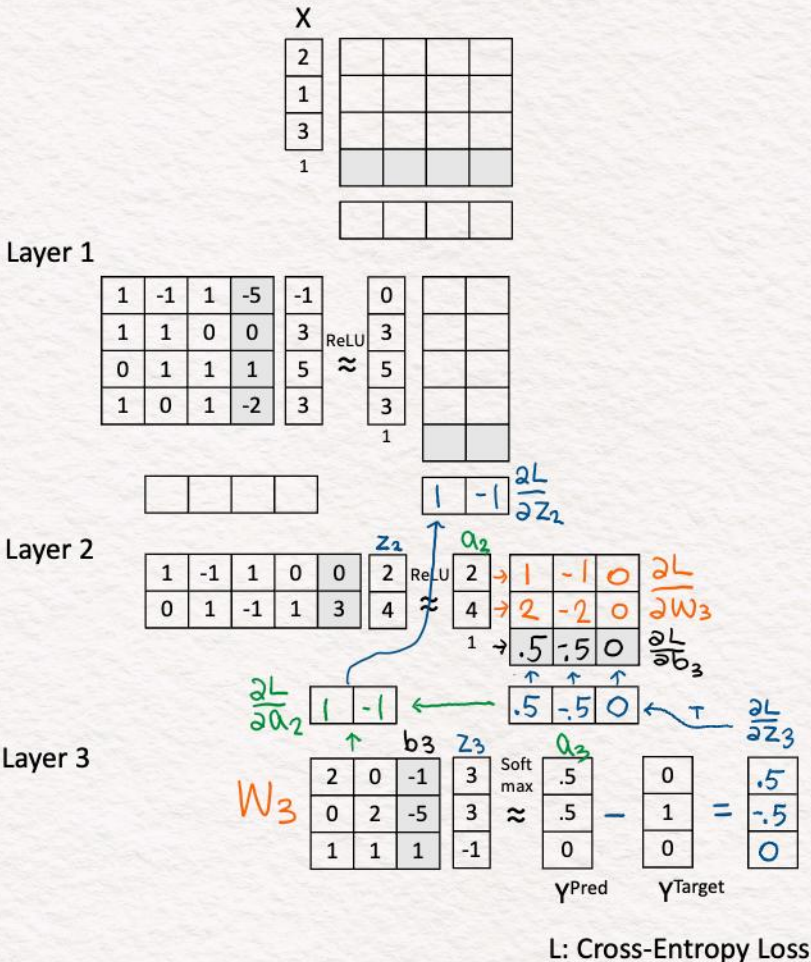


Backpropagation

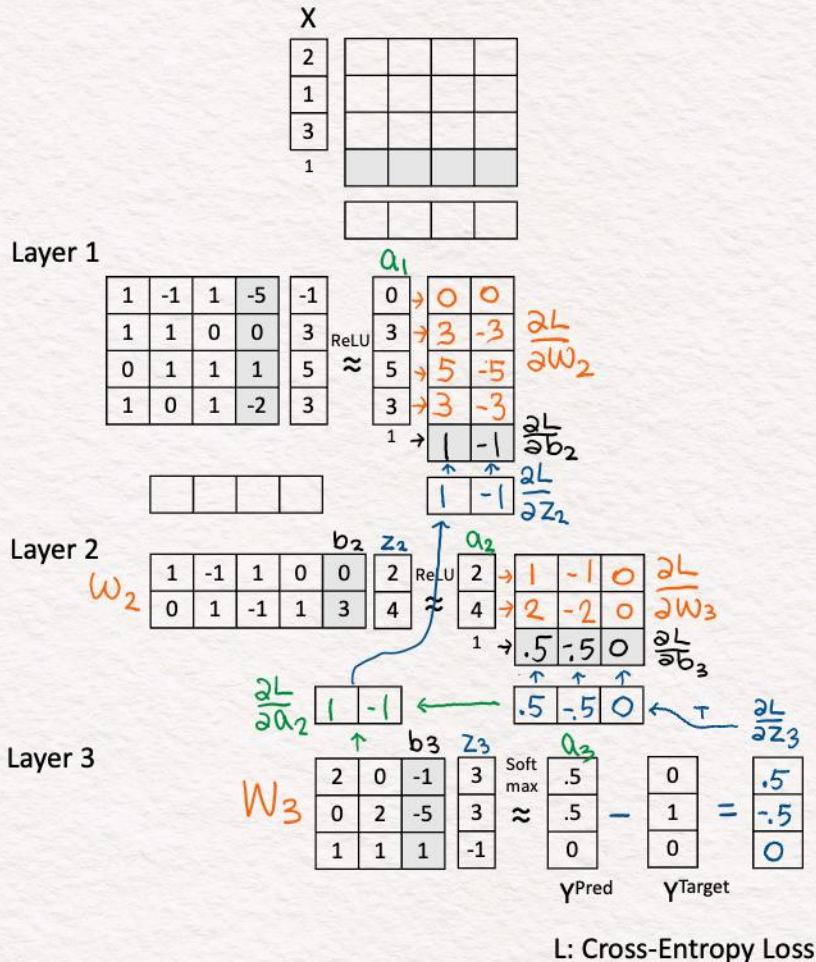


L: Cross-Entropy Loss

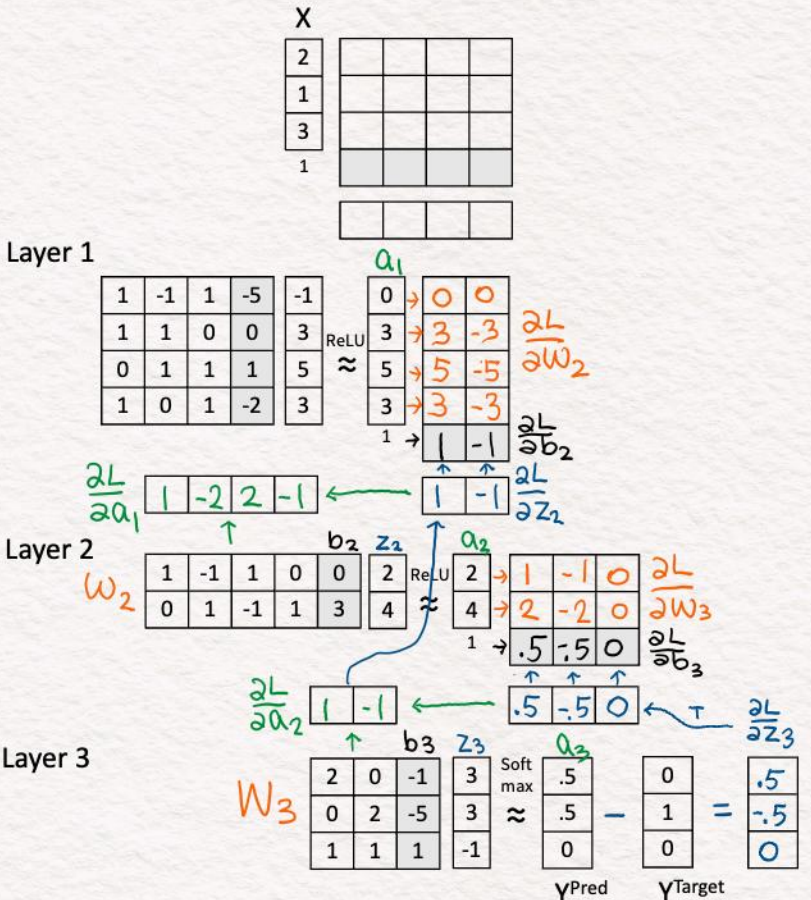
Backpropagation



Backpropagation

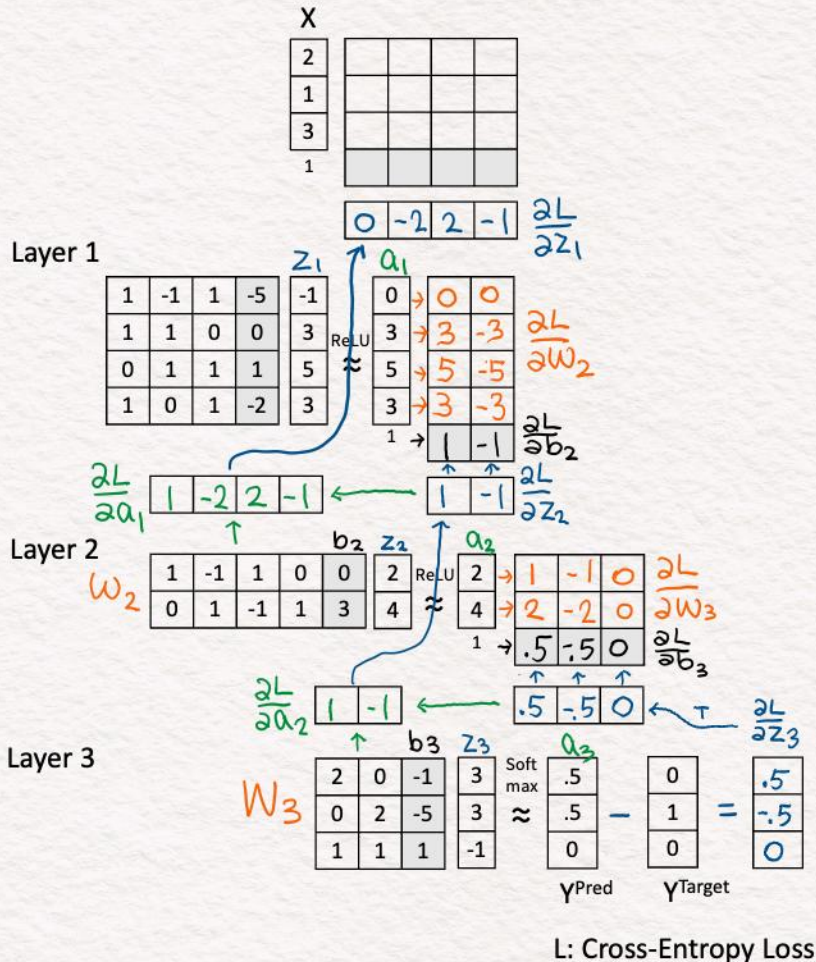


Backpropagation

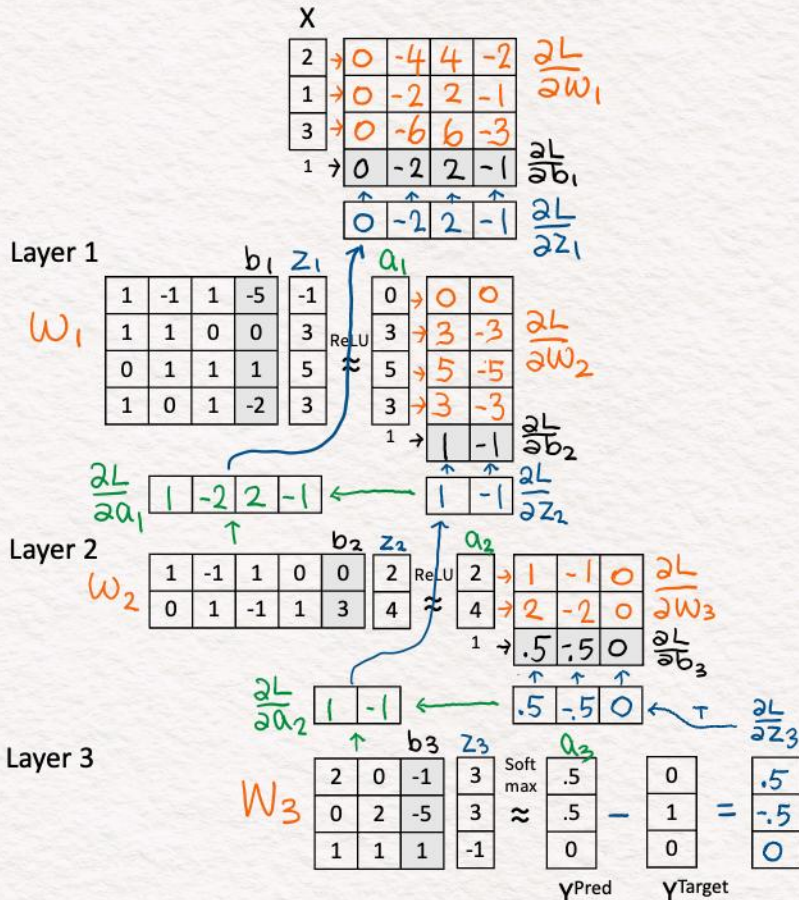


L: Cross-Entropy Loss

Backpropagation

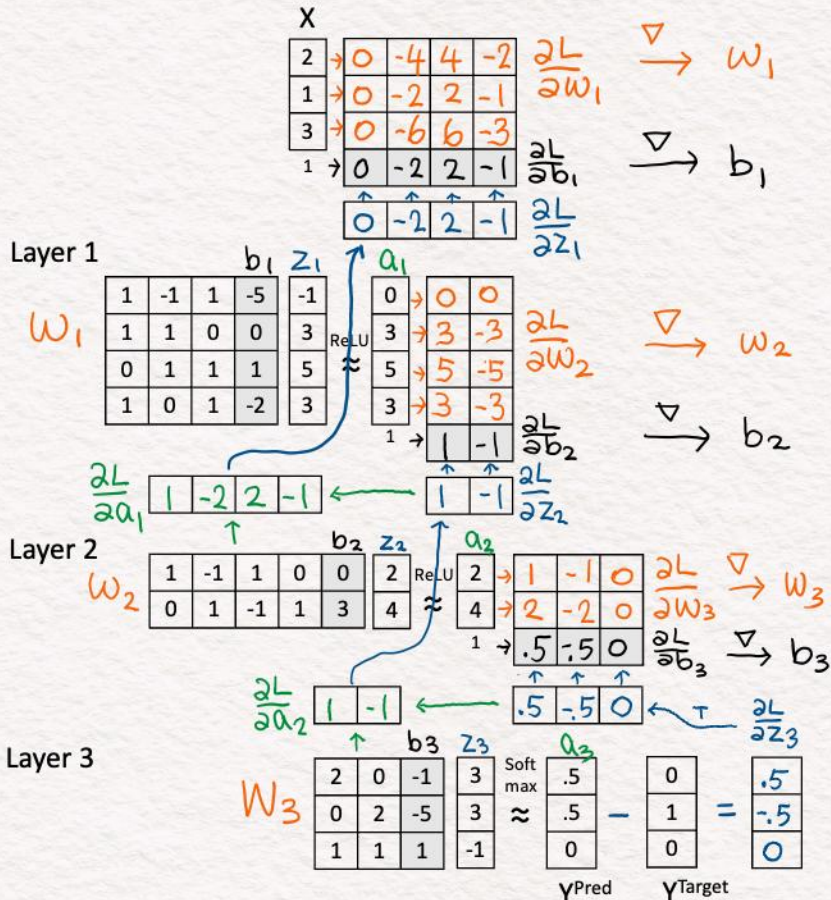


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L: Cross-Entropy Loss

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