Chapter 12

Gradient

The input story dot em with weights

This interim called zee goes for future sets

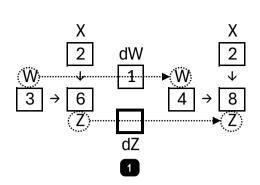
When the change in weight is the order from the end

The processed input show a slight different trend

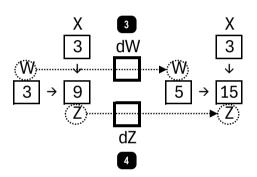
How much change of my trend may i know

Do the gradient math and it will show!

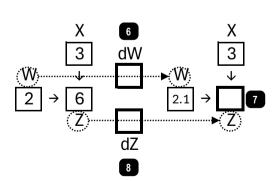
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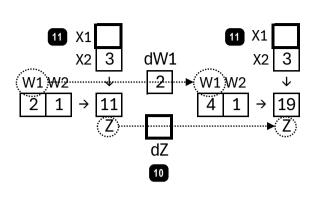
$$\frac{dZ}{dW} = \frac{1}{1} = \frac{X}{2}$$



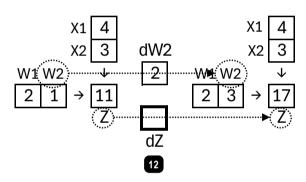
$$\frac{dZ}{dW} = \frac{X}{1} = \frac{X}{5}$$



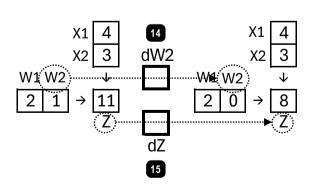
$$\frac{dZ}{dW} = \frac{X}{9}$$



$$\frac{dZ}{dW1} = \frac{X1}{2} = \frac{X1}{11}$$

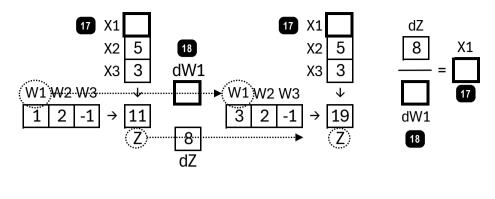


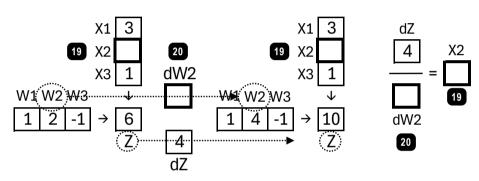
$$\frac{dZ}{dW2} = \frac{X2}{2} = \frac{X2}{13}$$

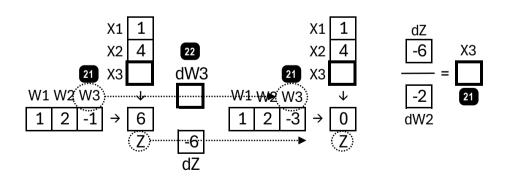


$$\frac{dZ}{dW2} = \frac{X2}{14}$$

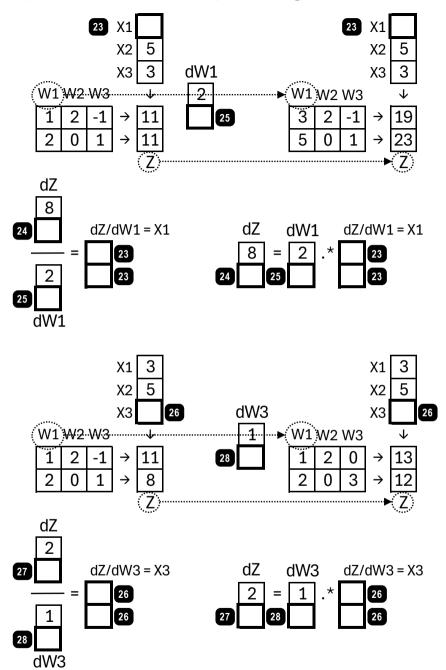




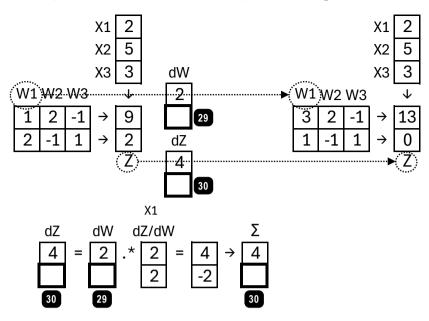


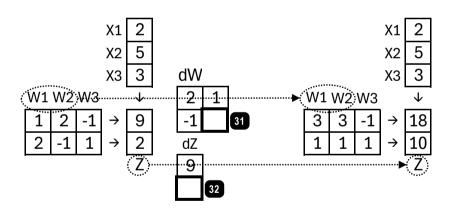


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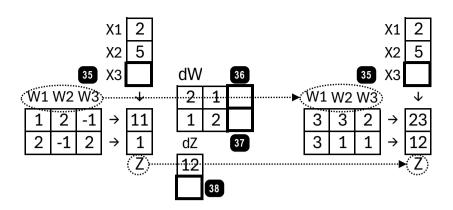


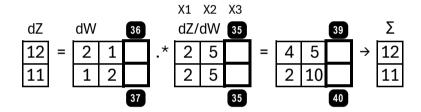
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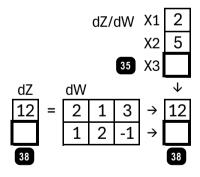




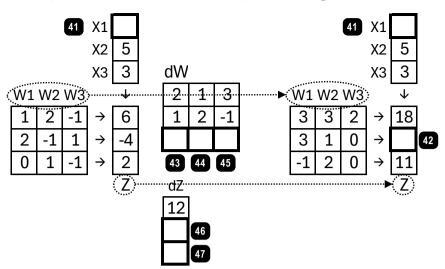


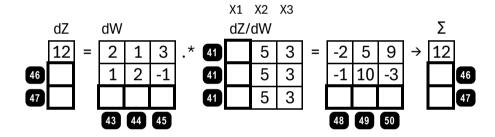


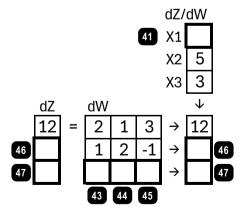




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41	42	43	44	45	46	47	48	49	50
-1	2	-1	1	1	9	6	1	2	3