

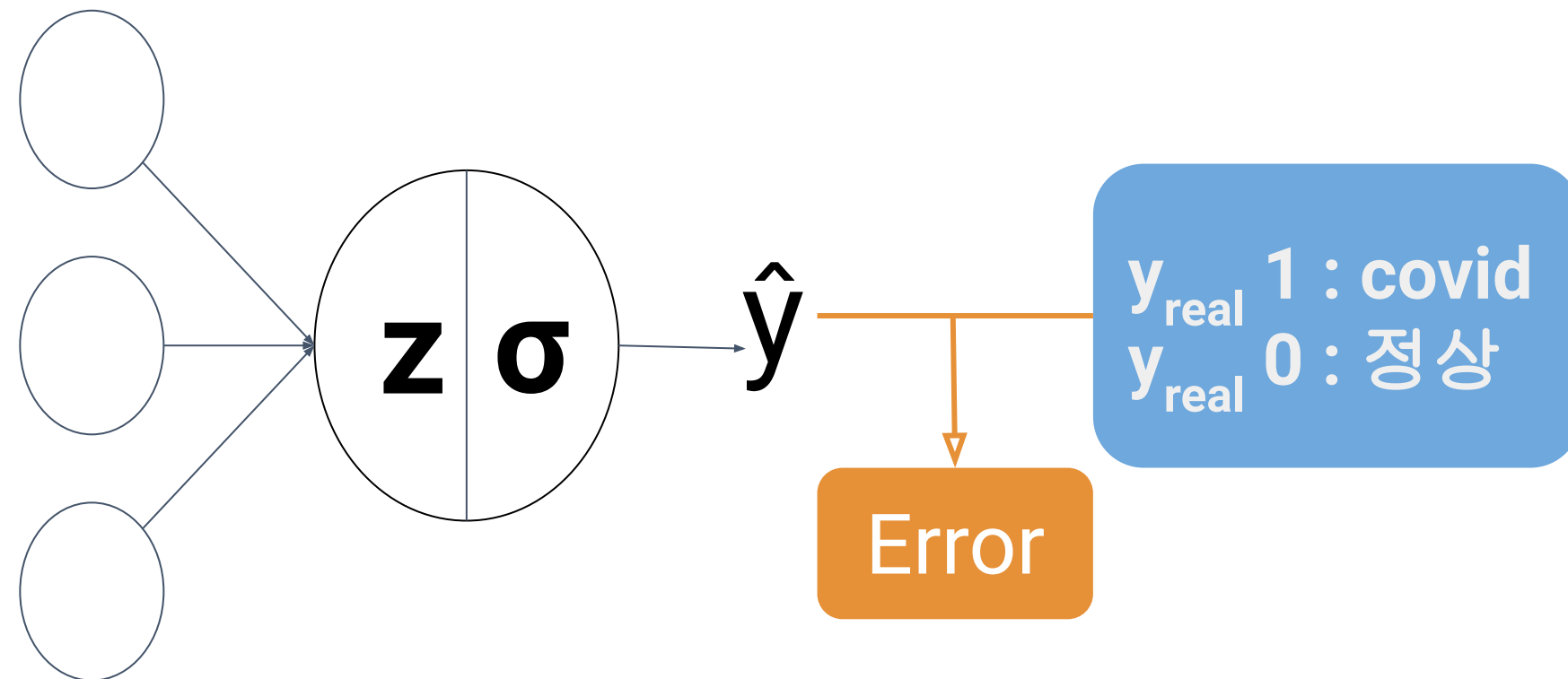
KT AIVLE School

| 딥러닝

보충

| **Update**

update



update : pseudo code

$$\mathbf{W}_{\text{new}} \leftarrow \mathbf{W}_{\text{old}} - \eta (\partial \text{Error} / \partial \mathbf{W})$$

update : pseudo code

$$\mathbf{W}_{\text{new}} \leftarrow \mathbf{W}_{\text{old}} - \eta (\partial \text{Error} / \partial \mathbf{W})$$

$$\partial \text{Error} / \partial \mathbf{W} = 8?$$

update : pseudo code

$$W_{\text{new}} \leftarrow W_{\text{old}} - \eta (\partial \text{Error} / \partial W)$$

$$\begin{aligned} \partial \text{Error} / \partial W &= 8 \\ &= \text{Error } 8 \uparrow / W \ 1 \uparrow \end{aligned}$$

update : pseudo code

$$W_{\text{new}} \leftarrow W_{\text{old}}$$

$W_{\text{정답}} : 5$

10

$(\partial \text{Error} / \partial W)$ 8

update : pseudo code

$$W_{\text{new}} \leftarrow W_{\text{old}}$$
$$(\partial \text{Error} / \partial W)$$

8

$$W_{\text{정답}} : 5$$

10

+ -

update : pseudo code

$$W_{\text{new}} \leftarrow W_{\text{old}} - (\partial \text{Error} / \partial W)$$

Diagram illustrating the weight update pseudo-code:

- W_{old} is represented by a green box with the value 10.
- The derivative term $(\partial \text{Error} / \partial W)$ is represented by an orange box with the value 8.
- The updated weight W_{new} is represented by a blue box with the value 2 (calculated as $10 - 8$).

update : pseudo code

$$W_{\text{new}} \leftarrow W_{\text{old}} - (\partial \text{Error} / \partial W)$$


The diagram illustrates the weight update formula. A blue callout box on the left contains the text 'W 정답 : 5'. A green callout box points to the 'W_{old}' term in the formula and contains the value '10'. An orange callout box points to the term '(\partial Error / \partial W)' and contains the value '8'.

$$2 \leftarrow 10 - 8$$

update : pseudo code

$$W_{\text{new}} \leftarrow W_{\text{old}} - \eta (\partial \text{Error} / \partial W)$$

$W_{\text{정답}} : 5$

10

0.1

8

$$9.2 \leftarrow 10 - 0.8$$

update : pseudo code

$$W_{\text{new}} \leftarrow W_{\text{old}} - \eta (\partial \text{Error} / \partial W)$$

update 된 값

기존의 값

재료 반영 비율

update 재료

w : update 대상
Error : minimize 대상

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make it possible