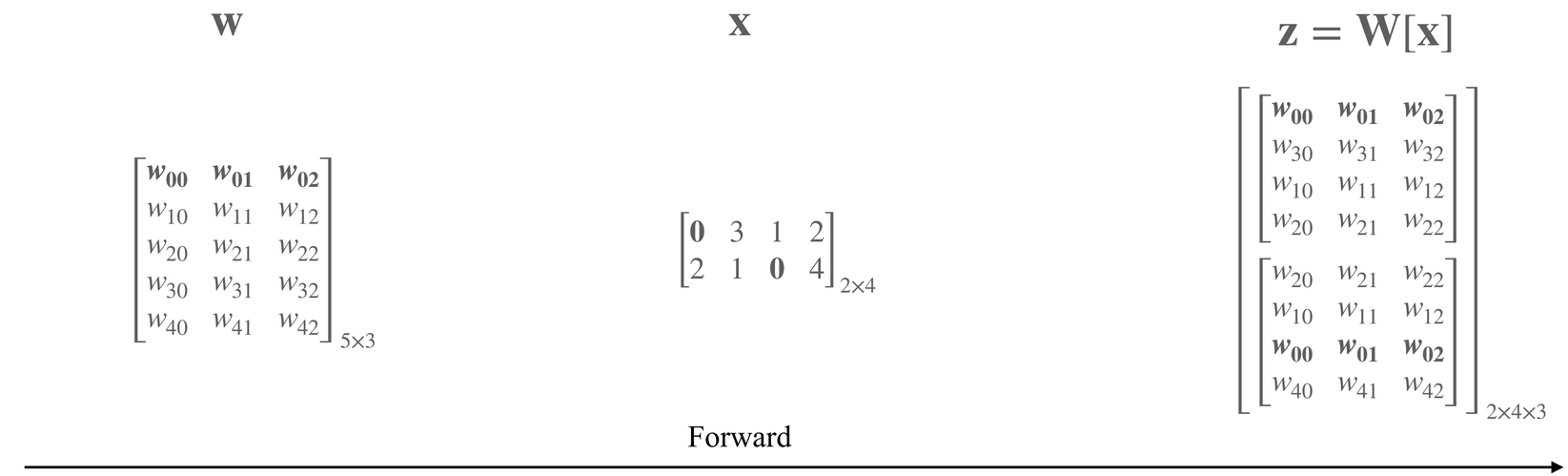
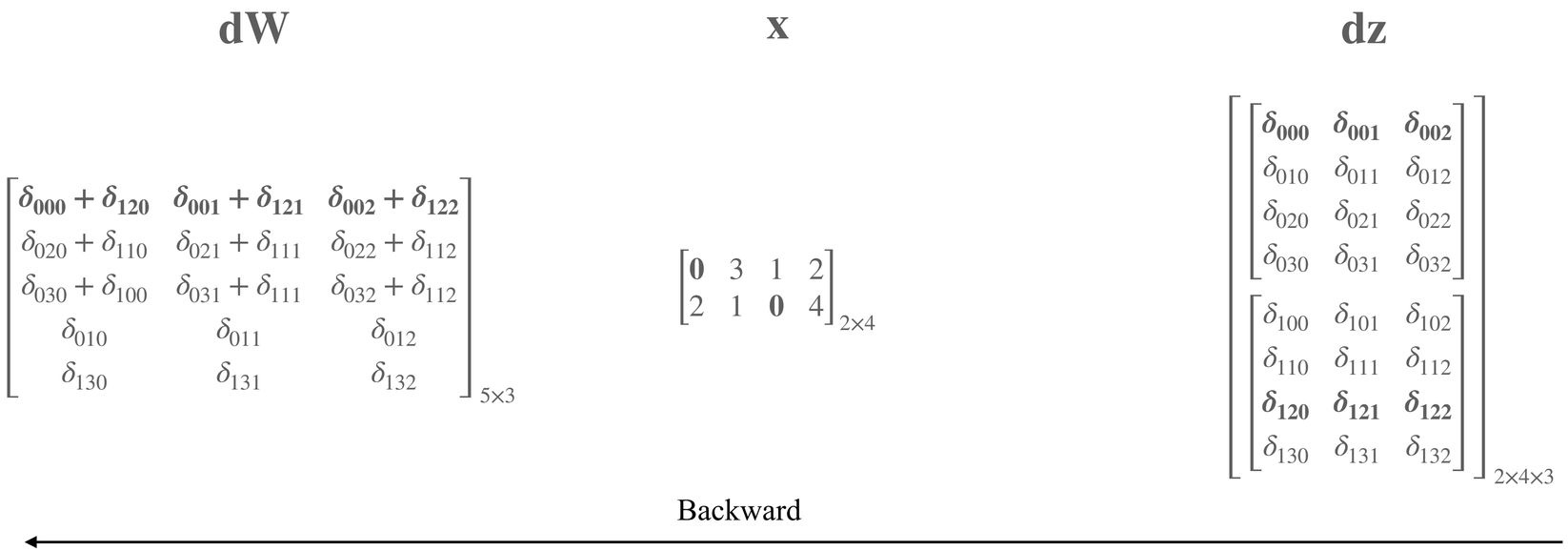
Embedding Layer





w_{00}	w_{01}	w_{02}
w_{10}	w_{11}	w_{12}
w_{20}	w_{21}	w_{22}
w_{30}	w_{31}	w_{32}
w_{40}	w_{41}	w_{42}

0	3	1	2
2	1	0	4

$$
\begin{bmatrix}
w_{00} & w_{01} & w_{02} \\
w_{30} & w_{31} & w_{32} \\
w_{10} & w_{11} & w_{12} \\
w_{20} & w_{21} & w_{22}
\end{bmatrix}
\begin{bmatrix}
w_{20} & w_{21} & w_{22} \\
w_{10} & w_{11} & w_{12} \\
w_{00} & w_{01} & w_{02} \\
w_{40} & w_{41} & w_{42}
\end{bmatrix}
$$

$\delta_{000}+\delta_{120}$	$\delta_{001}+\delta_{121}$	$\delta_{002}+\delta_{122}$
$\delta_{020}+\delta_{110}$	$\delta_{021}+\delta_{111}$	$\delta_{022}+\delta_{112}$
$\delta_{030}+\delta_{100}$	$\delta_{031}+\delta_{101}$	$\delta_{032}+\delta_{102}$
δ_{010}	δ_{011}	δ_{012}
δ_{130}	δ_{131}	δ_{132}

0	3	1	2
2	1	0	4

$$
\begin{bmatrix}
\delta_{000} & \delta_{001} & \delta_{002} \\
\delta_{010} & \delta_{011} & \delta_{012} \\
\delta_{020} & \delta_{021} & \delta_{022} \\
\delta_{030} & \delta_{031} & \delta_{032} \\
\delta_{100} & \delta_{101} & \delta_{102} \\
\delta_{110} & \delta_{111} & \delta_{112} \\
\delta_{120} & \delta_{121} & \delta_{122} \\
\delta_{130} & \delta_{131} & \delta_{132}
\end{bmatrix}
$$