

Insert Matrix

Qian Liu

October 4, 2021

Contents

1	Insert Matrix	2
1.0.1	No delimiter	2
1.0.2	delimiter is parenthesis:()	2
1.0.3	delimiter is square bracket:()	2
1.0.4	delimiter is curly bracket	2
1.0.5	delimiter is single vertical line	2
1.0.6	delimiter is double vertical lines	2
1.0.7	Ellipsis: \dots \vdots \ddots	2
1.0.8	Partitioned Matrix	3

1 Insert Matrix

Notice that: the matrix must be located in

```
\[  
  \begin{matrix}  
    ...  
  \end{matrix}  
\]
```

1.0.1 No delimiter

$$\begin{matrix} 1 & 3 \\ 2 & 4 \end{matrix}$$

1.0.2 delimiter is parenthesis:()

$$\begin{pmatrix} 1 & 3 \\ 2 & 4 \end{pmatrix}$$

1.0.3 delimiter is square bracket:()

$$\begin{bmatrix} 1 & 3 \\ 2 & 4 \end{bmatrix}$$

1.0.4 delimiter is curly bracket

$$\begin{Bmatrix} 1 & 3 \\ 2 & 4 \end{Bmatrix}$$

1.0.5 delimiter is single vertical line

$$\begin{vmatrix} 1 & 3 \\ 2 & 4 \end{vmatrix}$$

1.0.6 delimiter is double vertical lines

$$\begin{Vmatrix} 1 & 3 \\ 2 & 4 \end{Vmatrix}$$

1.0.7 Ellipsis: \dots \vdots \ddots

$$\begin{bmatrix} 1 & \dots & 3 \\ 4 & \ddots & \vdots \\ 7 & 8 & 9 \end{bmatrix}_{3 \times 3} \begin{bmatrix} 1 & \dots & 3 \\ \dots\dots\dots & & \\ 7 & 8 & 9 \end{bmatrix}$$

1.0.8 Partitioned Matrix

$$\begin{bmatrix} 1 & 2 & & \\ 3 & 4 & & \\ & & 1 & 2 \\ 0 & & 3 & 4 \end{bmatrix}_{4 \times 4}$$
$$\begin{bmatrix} 1 & 2 & 3 & 4 \\ 5 & 6 & 7 & 8 \\ 9 & 10 & 11 & 12 \end{bmatrix}$$