

Sample 1-2

画像データの表現

基本操作

画像処理特論

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動作確認: MATLAB R2020a

Digital image representation

Basic operations

Advanced Topics in Image Processing

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Verified: MATLAB R2020a

行列 **A** の定義

(Definition of matrix **A**)

$$\mathbf{A} = \begin{pmatrix} 1 & 2 \\ 3 & 4 \\ 5 & 6 \end{pmatrix}$$

```
A = [  
    1 2 ;  
    3 4 ;  
    5 6 ]
```

```
A = 3x2  
    1    2  
    3    4  
    5    6
```

行列 **B** の定義

(Definition of matrix **B**)

$$\mathbf{B} = \begin{pmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \end{pmatrix}$$

```
B = [  
    1 2 3 ;  
    4 5 6 ]
```

```
B = 2x3  
    1    2    3
```

行列積の計算 (Matrix product)

$$\mathbf{C} = \mathbf{AB}$$

$$\mathbf{C} = \mathbf{A} * \mathbf{B}$$

$$\mathbf{C} = \begin{matrix} 3 \times 3 \\ \begin{matrix} 9 & 12 & 15 \\ 19 & 26 & 33 \\ 29 & 40 & 51 \end{matrix} \end{matrix}$$

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