

Fundamental Subspaces

Row A

The space spanned by the rows of matrix.

Properties

- The basis for Row A is given by the pivot rows of A .
- $\dim(\text{Row } A) = \dim(\text{Col } A)$
- $\text{Row } A = \text{Col } A^T$

Col A

Look [Column Space and Null Space](#) to learn more.

Null A

Look [Column Space and Null Space](#) to learn more.

Properties

- $(\text{Row } A)^\perp = \text{Null } A$
- $(\text{Null } A)^\perp = \text{Row } A$

Null A^T

Properties

- $(\text{Col } A)^\perp = \text{Null } A$
 - $(\text{Null } A)^\perp = \text{Col } A$
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