
Linear Algebra

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References

- Main textbook
 - Lay et al. Linear Algebra and Its Applications, 5th edition, 2015
 - <https://www.amazon.com/Linear-Algebra-Its-Applications-5th/dp/032198238X>
- Other textbook
 - Gilbert Strang, Introduction to Linear Algebra, 5th edition, 2016
 - Gilbert Strang, Linear Algebra and Its Applications, 4th edition, 2016
- Online lecture
 - Gilbert Strang's MIT Lecture
 - <https://ocw.mit.edu/courses/mathematics/18-06-linear-algebra-spring-2010/>



Lecture Overview

- Elements in linear algebra
- Linear system
- Linear combination, vector equation,
Four views of matrix multiplication
- Linear independence, span, and subspace
- Linear transformation
- Least squares
- Eigendecomposition
- Singular value decomposition