

[Course](#)

[Progress](#)

[Dates](#)

[Discussion](#)

[Syllabus](#)

[Outline](#)

[laff routines](#)

[Community](#)

 [Course](#) / [Week 12: Eigenvalues and Eigenvectors](#) / [12.1 Opening Remarks](#)



< Previous

 





Next >

12.1.2 Outline

 Bookmark this page

12.1.2 Outline

Opening Remarks Opening Remarks

- 12.1.1. Predicting the Weather, Again
- 12.1.2. Outline
- 12.1.3. What You Will Learn

Getting Started

- 12.2.1. The Algebraic Eigenvalue Problem
- 12.2.2. Simple Examples
- 12.2.3. Diagonalizing
- 12.2.4. Eigenvalues and Eigenvectors of 33 Matrices

The General Case

- 12.3.1. Eigenvalues and Eigenvectors of nn matrices: Special Cases
- 12.3.2. Eigenvalues of nn Matrices
- 12.3.3. Diagonalizing, Again
- 12.3.4. Properties of Eigenvalues and Eigenvectors

Practical Methods for Computing Eigenvectors and Eigenvalues

- 12.4.1. Predicting the Weather, One Last Time
- 12.4.2. The Power Method
- 12.4.3. In Preparation for the Enrichment

Enrichment

- 12.5.1. The Inverse Power Method
- 12.5.2. The Rayleigh Quotient Iteration
- 12.5.3. More Advanced Techniques

Wrap Up

- 12.6.1. Homework
- 12.6.2. Summary

< Previous

Next >



edX

- [About](#)
- [Affiliates](#)
- [edX for Business](#)
- [Open edX](#)
- [Careers](#)
- [News](#)

Legal

- [Terms of Service & Honor Code](#)
- [Privacy Policy](#)
- [Accessibility Policy](#)
- [Trademark Policy](#)
- [Sitemap](#)
- [Cookie Policy](#)
- [Your Privacy Choices](#)

Connect

- [Idea Hub](#)
- [Contact Us](#)
- [Help Center](#)
- [Security](#)
- [Media Kit](#)



© 2023 edX LLC. All rights reserved.
深圳市恒宇博科技有限公司 [粤ICP备17044299号-2](#)