



SEARCH



RESOURCES



CONCEPTS

- ✓ 11. Notebook: PCA - Your Turn
- ✓ 12. Screencast: PCA Solution
- ✓ 13. Screencast: Interpret PCA Res...
- ✓ 14. Notebook: Interpretation
- ✓ 15. Screencast: Interpretation Sol...
- ✓ 16. Text: What Are EigenValues ...
- 17. Video: When to Use PCA?
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- 21. Video: Outro
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What Are Eigenvalues and Eigenvectors?

The mathematics of PCA isn't really necessary for PCA to be useful. However, to understand the mathematics of a technique to understand how it might be extended, this reason, the page has a few additional references which go more into the n

If you dive into the literature surrounding PCA, you will without a doubt run into eigenvalues and eigenvectors. These are just the math-y words for things you have encountered in this lesson.

An eigenvalue is the same as the amount of variability captured by a principal component. An eigenvector is a principal component itself. To see more on these ideas, take a look at the three links below:

Eigenvalue

Eigenvalue and eigenvector

[A great introduction into the mathematics of principal components analysis](#)

[An example of using PCA in python by one of my favorite data scientists.](#)

[An example of PCA from the scikit learn documentation.](#)



Mentor Help

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