Vector algebra

Linear transformations

- Video: Matrices as linear transformations
 3 min
- Video: Linear transformations as matrices
 1 min
- Linear Transformations
 15 min
- Video: Matrix multiplication 4 min
- Video: The identity matrix1 min
- Video: Matrix inverse 3 min
- Video: Which matrices have an inverse?

 1 min
- Video: Neural networks and matrices
 8 min
- Video: Conclusion 30 sec
- Quiz: Vector and Matrix Operations,
 Types of Matrices
 8 questions

Ungraded Labs

Programming Assignment: Single Perceptron Neural Networks for Linear Regression

Lecture Notes

This is an ungraded tool to develop your understanding of the material. You can change the values in the fields below or adjust positions of the vectors on the plots to visualize various linear transformations.

