Linear Algebra!

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Introduction

- 1.1 What is Linear Algebra?
- 1.2 How to Read this Document

Euclidean Vectors & Scalars

- 2.1 Some Terms
- 2.2 Vector Arithmetic
- 2.2.1 Vector Addition
- 2.2.2 Vector Multiplication

The Dot Product

The Cross Product

2.3 Bases and Linear Combinations

Matrices

- 3.1 Matrices as a Change of Basis
- 3.2 Matrix Arithmetic
- 3.2.1 Scalars and Matrices
- 3.2.2 Vectors and Matrices
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Abstract Vector Spaces

4.1 Fields