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Next >

<u>Course</u> <u>Progress</u> <u>Dates</u> <u>Discussion</u> <u>Syllabus</u> <u>Outline</u> <u>laff routines</u> <u>Community</u>

★ Course / Week 4: Matrix-Vector to Matrix-Matrix Multiplication / 4.1 Opening Remarks

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4.1.2 Outline

< Previous

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■ Calculator

## 4.1.2 Outline

#### **Opening Remarks**

- 4.1.1. Predicting the Weather
- 4.1.2. Outline
- 4.1.3. What You Will Learn

#### **Preparation**

- 4.2.1. Partitioned Matrix-Vector Multiplication
- 4.2.2. Transposing a Partitioned Matrix
- 4.2.3. Matrix-Vector Multiplication, Again

#### **Matrix-Vector Multiplication with Special Matrices**

- 4.3.1. Transpose Matrix-Vector Multiplication
- 4.3.2. Triangular Matrix-Vector Multiplication
- 4.3.3. Symmetric Matrix-Vector Multiplication

#### **Matrix-Matrix Multiplication (Product)**

- 4.4.1. Motivation
- 4.4.2. From Composing Linear Transformations to Matrix-Matrix Multiplication
- 4.4.3. Computing the Matrix-Matrix Product
- 4.4.4. Special Shapes
- 4.4.5. Cost

#### **Enrichment**

• 4.5.1. Hidden Markov Processes

#### Wrap Up

- 4.6.1. Homework
- 4.6.2. Summary



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