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### 3.1.2 Outline Week 3

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# 3.1.2 Outline Week 3

## Opening Remarks

- 3.1.1 Timmy Two Space
- 3.1.2 Outline Week 3
- 3.1.3 What You Will Learn

## Special Matrices

- 3.2.1 The Zero Matrix
- 3.2.2 The Identity Matrix
- 3.2.3 Diagonal Matrices
- 3.2.4 Triangular Matrices
- 3.2.5 Transpose Matrix
- 3.2.6 Symmetric Matrices

## Operations with Matrices

- 3.3.1 Scaling a Matrix
- 3.3.2 Adding Matrices

## Matrix-Vector Multiplication Algorithms

- 3.4.1 Via Dot Products
- 3.4.2 Via AXPY Operations
- 3.4.3 Compare and Contrast
- 3.4.4 Cost of Matrix-Vector Multiplication

## Wrap Up

- 3.5.1 (No) Additional Homework
- 3.5.2 Summary



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