



# Vector Derivatives for Linear Least Squares

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Lecture 9  
September 25, 2018

# Reminders

- Homework 2: Linear Algebra + Calculus
  - Out: Tue, Sep. 25
  - Due: Tue, Oct. 2 at 11:59pm

Q&A

# **MATRIX CALCULUS**

# Matrix Calculus: Least Squares

## *Chalkboard*

- Least Squares Objective Function
- Minimizing in Closed Form
- Necessary Identities
- Computing the Vector Derivative