#### PSY9511: Seminar 3

Regularization and variable selection

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#### Outline

- 1. Assignment 1
- 2. Assignment 2
- 3. Regularization
  - · Variable selection
  - Shrinkage (+ live coding 66)
  - · Dimensionality reduction



# Assignment 1



### **Assignment 1: Coding**

- Create a vector of 100 standard normally distributed numbers and visualize them with a histogram.
- · Show rows 5, 8, 9, and 10 of the Auto dataset.
- · Show the last three columns of the Auto dataset.
- · Show all cars with five cylinders in the Auto dataset.



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http://localhost:8889/notebooks/notebooks%2FAssignment%201.ipynb



## Assignment 2: Bias-variance trade-off

Flexibility



# Assignment 2

