What is a pattern?

- What is PR?

- What is MLP?

- Game Show (Three Doors & Prizes)

- Statistics

- Background

- Assumptions & Honesty

- Attendance

- Extra Credit

- Students

- This Course (EEC & CS)

- Syllabus

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Lecture 1
- Supervised vs. Unsupervised
- Known Classes vs. Unknown Classes
- As a Classification Problem

Human Actions
Face
Hand Writing
Speech, and Free Features

Examples of Research Topics in the Area
Classification

Performance Evaluation: Criteria, Metric, TP, FN...

Class Separation: Linear vs Non-Linear

"Best" Features? (What is "best"?)

Feature Extraction?

Feature Selection

Classifier Design

Evaluation

Classifier
Accuracy in classification?
- What is the expected
- Risk?
- How do we choose?

Classifiers: Salmon vs. Sea Bass

Using length
error in classification - what is the expected

how?
Now is the question in classification — what is the expected error?