

# Active Learning in Classes

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# Classes Involving Active Learning

- 2010 Spring
  - CS 4/552 Network Protocol Internal  
[www.iit.edu/~ywu24/cs452.html](http://www.iit.edu/~ywu24/cs452.html)
  - CS 350 Network Architectures  
[www.iit.edu/~ywu24/cs350.html](http://www.iit.edu/~ywu24/cs350.html)
  - CS110 Computer Science I  
[www.iit.edu/~ywu24/cs110.html](http://www.iit.edu/~ywu24/cs110.html)

# Background

- CS110
  - Programming class but elementary class
- CS350, CS4/552
  - Theoretical classes in networks without lab requirement in department's schedule

# Active Learning

- Group project in cs110
  - Team spirit
  - Possible to assign practical programming problems
- Projects in cs350 and cs4/552
  - Bridge the theory and practice
  - Using software which used in the industry
- Presentation in cs4/552

# Active Learning

- Class Contents
  - Cs110
  - Cs350, cs4/552
- Projects
  - Hangman
  - Chess
  - Enigma Machine
  - Wireshark
  - Client/Server communication by sockets
- Presentations
  - SSL
  - DOS attacks
  - Game Theory

# Results

- Interested in class lectures
  - Students sent me email that the projects are interesting
  - Other students in other departments queried about these classes in next semester
  - Some students are asking for doing research under supervision
- Help to understand the key knowledge points in the class
- Widen students' horizon in related area
  - Students can choose the part which they feel interesting to dig (by choose different presentation topics)