Welcome to
CS101
Algorithms & Programming I

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http://www.cs.bilkent.edu.tr/~erman/CS101.html

About me

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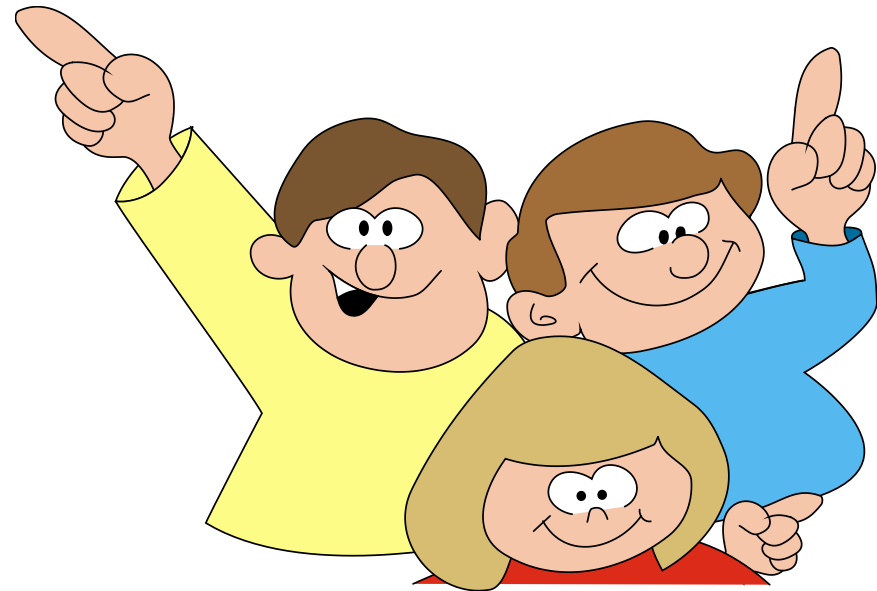Office hours: *any time free!*

About the Course

- Learn how
  - to program computers
  - to use them
  - they work

- Also look at
  - CE/CS in general
  - Limits of computers
  - Social implications

- Organisation & grading…
  - 3 sections (CS & EE students!)
  - 4 credits - 3 hr. class time & 4 hr. lab each week
  - overall grade from labs, hw's & written exams

  Important: *common exams & grading!*

About You

- What do you use computers for?
    - for entertainment, games, communication
    - for finding info., writing reports, spreadsheets
- How many have
    - created their own webpages,
    - written any sort of program
- How many can
    - speak a second language,
    - play a musical instrument,
    - drive a car,
    - ride a bike?

Show of hands

Serious FUN

- Why did I ask that last set of questions?
  - because **programming is** also a **skill**
  - ***you*** have to ***do*** it in order to learn it
  - no one can learn it for you!

- Serious…
  - Everyone can write programs, it's easy.
  - Engineering software is not!
  - Engineering is a serious business; money & lives depend on it
  - Vital you adopt professional attitude towards your subject

- Fun… *(but often frustrating!)*
  - learning & creating things should be fun!
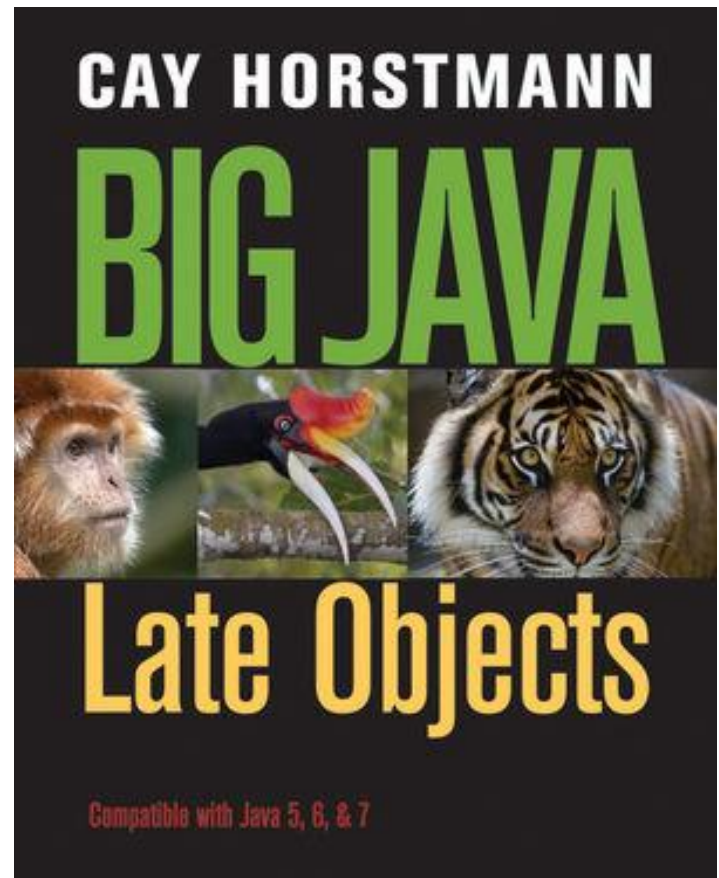 - Work together to attain mastery of the skill.

No pain
No gain

Practice
makes perfect

Homework

- From SRS enroll to CS101 Moodle

- Get the textbook

Big Java (Late Objects),
by **Cay Horstmann**.
International Student Edition,
Wiley

What Will You Learn?

- Algorithms & Computers
- Computers & Java
- Input, Output & Assignment
- Decision & Repetition (if, while, etc.)
- (Static) methods
- OOP in Java
- Writing classes
- Arrays & ArrayLists
- Searching & Sorting

Grading

- 25% - Lab assignments
- 30% - Midterm Exam
- 30% - Final Exam
- 10% - Quizzes & Homework
- 5%   - Essay Homework

Exams

- Two written examinations
  - one **midterm** and a **final**
- Exams are **open book, open notes**
- a valid medical report is required to take a makeup

Labs

- 10 weekly **Lab Exams**
  - **Exams using a computer**
  - Open books and open notes
- You will be given a question in the beginning of the exam
- You have 3 hours to solve the problem (write a Java program)
- Teaching Assistants (TAs) will give you an **oral exam** to determine your grade in the 4th hour.
- Go to https://www.unilica.com -> Have Sign in Problem to reset your password

Minimum Course Requirements

- In order to be able to take the final exam, a Student must have
  - A minimum 30% on the midterm exam, and
  - A minimum 75% lab average, and
  - A minimum 25% on the homework (essay)
- Otherwise, the Student gets FZ and not allowed to enter the final exam

Questions