Course Organization

cs4: Computer Science Bootcamp

Çetin Kaya Koç

http://koclab.cs.ucsb.edu/teaching/cs4

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cs4: Catalog Description

An introduction to computational thinking, computing, data management, and problem solving using computers, for non-majors ONLY. Topics include coding basics, representing code and data using a computer, and applications of computing that are important to society.

cs4: Outline

- Data Representation
- Number Representation, Computation, and Storing
- Representation of Text
- Iteration
- Recursion
- Representation of Images
- Representation of Sound and Music
- Hiding Information and Cryptography

cs4: Information for Summer B 2019

- Instructor: Professor Çetin Kaya Koç
  Koç is pronounced as "Coach" :)
- Class Schedule: Tue, Wed, Thu 9:30-10:50am
- Classroom: Buchanan 1930
- Instructor's Office Hours: Tue 2:00-4:00pm
  Office: Harold Frank Hall 1119

cs4: Information for Summer B 2019

- Course website: http://koclab.cs.ucsb.edu/teaching/cs4
  Course notes, homework and lab assignments, links
- Slides and other course information are in the folder:
  http://koclab.cs.ucsb.edu/teaching/cs4/docx
- Homework and Lab Assignments are in the folder:
  http://koclab.cs.ucsb.edu/teaching/cs4/hwlab

- Piazza page: https://piazza.com/class/jyywrssun484x
  Discussions, private and public questions and answers

cs4: Posting of Grades

- Grades will be posted as available:
  http://koclab.cs.ucsb.edu/teaching/cs4/cs4.htm
- Check your grades weekly and let me know if there are any errors

- Code is equal to YourPermNumber mod 98773
  Example: If YourPermNumber is 12345678
  Your Code will be 97826, since

$$97826 = 12345678 \pmod{98773}$$

- In Python this is computed as
  ```
  >>> 12345678 % 98773
  97826
  ```

cs4: Lab Sessions

- Lab/Discussion Schedules:
  Tuesday 12:30-01:50pm, TAs: All
  Tuesday 02:00-03:20pm, TAs: All
  Tuesday 03:30-04:50pm, TAs: All

- Teaching Assistants:
  Chris Zhang zhizhouzhang@ucsb.edu
  Ashish Vyas ashish@ucsb.edu

- Teaching Assistant Office Hours:
  Chris: Monday 9:00-11:00
  Ashish: Friday 11:00am-01:00pm
  TA Office: Trailer 936 Room 104
  http://koclab.cs.ucsb.edu/teaching/cs4/images/Trailer936.png

cs4: COE Accounts

- You will need COE accounts to use the computers in the Lab
- In Lab 01 you will do this

- You will have:
  Access to a text editor (vi, vim, emacs)
  Access to a binary hex editor (Hex-Editor, Emacs, vim)
  Access to Python IDLE programming platform (Python 3.7)
  Access to Mathematica and Matlab ... and more
- Computational tools and platforms will be used

Homework and Lab Assignments

- 6 Homework Assignments, due 5pm on Fridays
- 6 Lab Assignment, if report is required, due 5pm on Tuesdays

- Homework Assignments and Lab Reports:
  Either, Upload an electronic copy via Dropbox
  Or, Deliver a paper copy to the HW Box in Harold Frank Hall 2108

Exams

- The Midterm Exam will be in class during class time on Tuesday, Aug 27
- The Final Exam will be in class during class time on Thursday, Sep 12
- 2-pages of notes (both sides) are allowed during the Exams.
- No makeup exam can be given under any circumstances.

Grading Rules

- Lab Participation and/or Report: 25 %

- Homework Assignments: 25 %

- Midterm Exam: 25 %

- Final Exam: 25 %