Transition to Matlab

CSII32 Spring 2016

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http://www.cs.cornell.edu/courses/cs1132/2016sp/

Today's meeting

- Course goals
- Organization and requirements
- Logistics
- Scheduling

Course Goal

Learn how to program in Matlab!

Topics:

- Matlab basics (environment, built-in functions)
- Arrays (vector, matrix)
- Vectorized code
- Control flow (if-else, loops)
- User-defined functions
- Strings and cell arrays
- Graphics
- Basic I/O (including file I/O)

Programming Fundamentals ...

... that you should practice

- Top-down design
- Modular program development
 - Reduce redundancy
- Concise documentation
- Thorough testing

Must-know facts about CS1132

- Course ends after 10 weeks: April 22nd
- I credit (equivalent to 4-5 weeks); S/U
- Auto-tutorial requires mastery of material
 - An <u>average</u> of B (85%) is required to pass the course
 - Average based on four items: Assignments I & 2 and Tests I & 2
- Assignments
 - If first submission is not perfect, <u>one</u> re-submission is allowed without penalty. Any additional *re*-submission incurs a 10% deduction.
 - Assignment la deadline: Feb 19th Fri
 - Assignment Ib deadline: Mar 9th Wed
 - Assignment 2 deadline: Apr 20th Wed
 - Late (re)submission allowed up to 24 hours for a 10% penalty

Must-know facts about CSII32 (cont'd)

- Tests
 - Take Test I after submission of Assignment I (parts a & b)
 - Deadline is Mar IIth
 - Take Test 2 after submission of Assignment 2
 - Deadline is Apr 22nd
 - Multiple attempts are allowed, but only once a week
 - Final score is the most recent score
- All course materials are online and in the textbook
- The website <u>is</u> the course
- Consulting available SMTWR 5-10pm in Green Rm of ACCEL (Carpenter Hall) starting Feb 3rd
- Occasional assignment-focused help sessions and exam review sessions will be announced
- Use TA office hours
 - Mon 10:00am-11:30am Gates G21

How to submit homework

- Submit your homework files on CMS
- Resubmitting a homework:
 - Carefully consider the grader's comments, but the final correctness of <u>your</u> homework is <u>your</u> responsibility.
 - Submit all (corrected) files related to the same question
 - Click the "Regrade Request" button
- Submit a homework anytime before its deadline submissions made by Wednesday will be graded with feedback by Sunday of the same week
 - Submit on Tues? Get feedback by Sunday of the same week.
 - Submit on Wed? Get feedback by Sunday of the same week.
 - Submit on Thurs? Get feedback by Sunday of <u>the following week</u>

How to sign up for a test

- Take Test I after you submit Assignment I parts a & b
- Take Test 2 after you submit Assignment 2
- You can sign up after submitting the relevant assignment(s)—no need to wait for grading result
- For each test, sign up for a slot in one of the test sessions listed in CMS.
 - If you have an unsuccessful attempt, sign up for another attempt the following week. Occupy only one test slot at a time.
 - <u>Review your test with the TA during office hour before your next attempt!</u>
 - If we see you making repeated attempts without improvement, you will not be allowed to write the test again without reviewing with a TA first.
 - We add test sessions throughout the semester, a couple weeks in advance.

Course Materials

- Course website! www.cs.cornell.edu/courses/cs1132
- Essentials of MATLAB Programming (2nd Ed.) by Stephen J. Chapman
- MATLAB Student Version (2008 or later) <u>purchase is optional</u> because you can use it for free in the public labs



MATLAB software: to buy or not to buy, that is the question

	Convenience	Speed	Cost
Use public lab	Need to go to the lab (most labs are open 24-7)	Some lab machines are fast; some are slow	C Free!
Your own copy	Available on your own machine (5+ months)	Depends on your machine	You have to purchase (at least \$49)

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TRIAL: remote access	 Extra work to download and use supporting software and deal with file transfer Available on your machine with Internet connection Expect hiccups as this is a TRIAL offering 	Slow	©

Academic integrity

- Electronic submission and the self-paced nature of the course do not alter the University standards on academic integrity
- Your individual work is required
 - Do not copy code from any source (friend, published work, Internet, ...)
 - You can discuss general strategy with others, but do not share any code, whether written, electronic, or verbally
 - We use MOSS or similar software to check your submitted programs

What to do now?

- Check course website!
- Start studying the course material

Log on CMS (start from course website). If CSII32 is <u>not</u> listed under "*My courses*," then you need to be added to the system. Email Rundong Wu <rundongwu@cs.cornell.edu> to request this and indicate your Cornell NetID. Recap... deadlines in the auto-tutorial course

Module I

- Feb 19th (F) Last day to (re)submit Assignment Ia
- Mar 9th (W) Last day to (re)submit Assignment Ib
- Mar IIth (F) Last day to (re)take Test I

Module 2

- Apr 20th (W) Last day to (re)submit Assignment 2
- Apr 22nd (F) Last day to (re)take Test 2