

You Made It!













Announcements

- P3 due tonight
- R7 due Sunday
 - Can use to extend P3
- Final exam next Wednesday, 12:30-2:20
 - Read <u>exam policies</u>
 - One note page, no more than 8.5" x 11"
 - Reference sheet provided
 - Assigned seats
- Grade guarantee calculator posted later today

Thank your TAs!













































































Learning Objectives

or, "What did I learn in this class?"

- 1.Computational Thinking Create an algorithm to solve a given problem and express that algorithm in a structured way (e.g. pseudocode)
- **2.Comprehension** Trace and predict the behavior of programs and systems
- **3.Code Writing** Write functionally correct Java programs that meet a provided specification using control structures, primitive data types, and basic data abstractions
- **4.Communication** Clearly and effectively describe the behavior of a given code snippet
- **5.Debugging** Identify errors in a method's behavior & implement fixes for identified errors
- **6.Decomposition** Solve problems by breaking them into subproblems and recombining the solutions using techniques such as methods
- **7.Ethics/Impact** Describe ethical and sociotechnical issues related to software and technology and explain how their choices as programmers can impact those issues



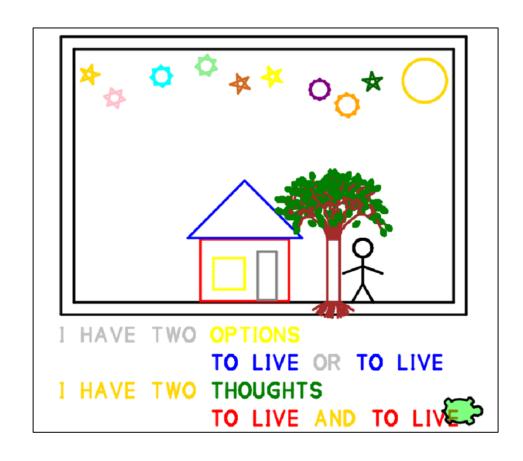
Digression: My New Hobby

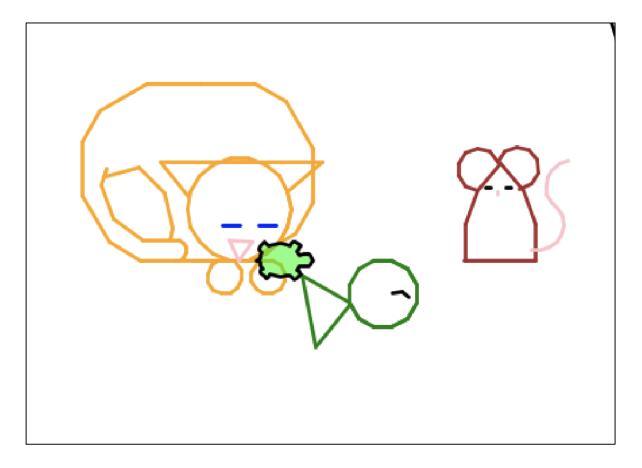
Amigurumi: Japanese art of creating crocheted or knitted stuffed toys



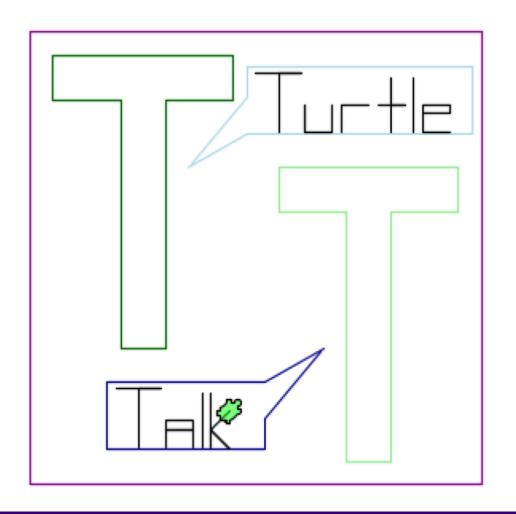


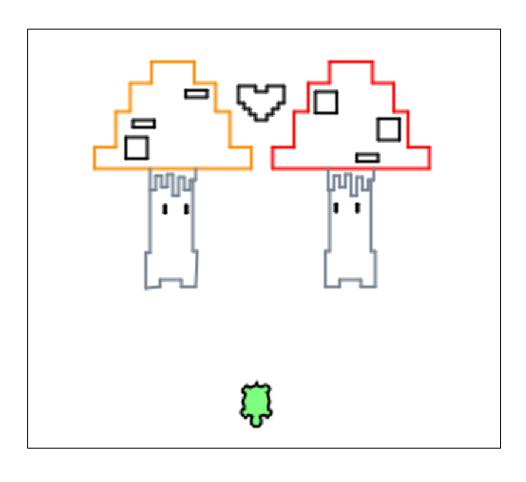
You made some pretty cool crafts yourself!



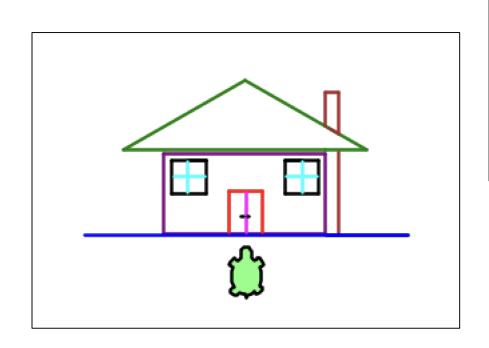


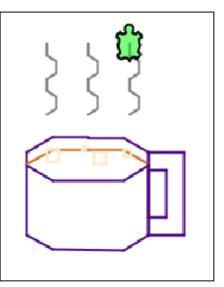
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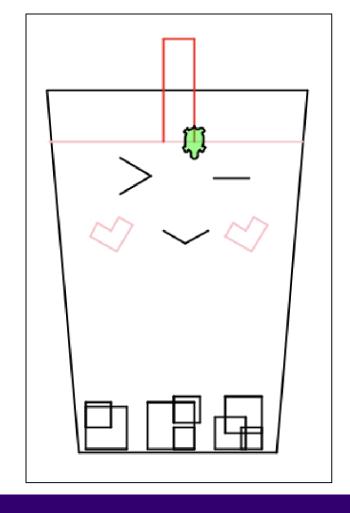




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Applications of CS

or "What can I do with what I learned?"

- Detect and prevent toxicity online
- Digitize basketball players
- Help DHH people identify sounds
- Figure out how to best distribute relief funds
- Recognize disinformation online
- Make movies
- Improve digital collaboration
- Fix Olympic badminton
- And so much more!

Future Courses

or "What can I do next?"

Course	Overview
<u>CSE 122</u>	Introduction to Computer Programming II
CSE 123	Introduction to Computer Programming III

Majors

Course	Overview
<u>CSE 311</u>	Mathematical foundations
<u>CSE 351</u>	Low-level computer organization/abstraction
<u>CSE 331</u>	Software design/implementation
<u>CSE 341</u>	Programming languages (!)
<u>CSE 340</u>	Interaction programming

Non-majors

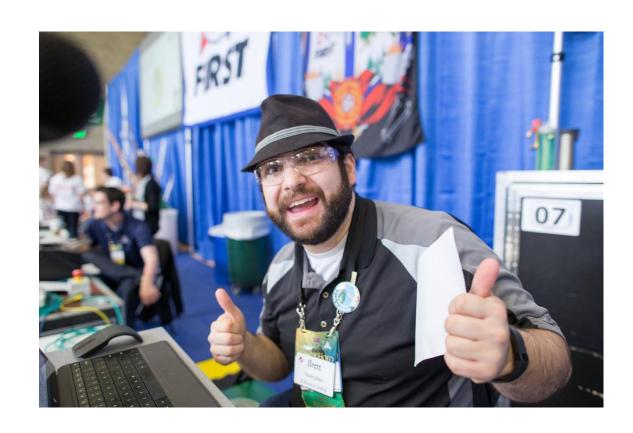
Course	Overview
<u>CSE 154</u>	Intro. to web programming (several languages)
<u>CSE 163</u>	Intermediate programming, data analysis (Python)
<u>CSE 180</u>	Introduction to data science (Python)
<u>CSE 373</u>	Data structures and algorithms (non-majors)
<u>CSE 374</u>	Low-level programming and tools (C/C++)
<u>CSE 416</u>	Intro. to Machine Learning

See: https://www.cs.washington.edu/academics/ugrad/current-students and https://www.cs.washington.edu/academics/ugrad/nonmajor-courses

Frequently Asked Questions

- How can I get better at programming?
 - Practice!
- How can I learn to X?
 - Search online, read books, look at examples
- What should I work on next?
 - Anything you can think of! (<u>Here are some ideas</u>)
 - Beware: it's hard to tell what's easy and what's hard.
- Should I learn another language? Which one?
 - That depends—what do you want to do?
- What's the best programming language?
 - (take CSE 341)

Thank you!!!



Ask Us (Almost) Anything!