Welcome to CS 61A

About the Course

Parts of the Course

Lecture: Videos posted to cs61a.org Sunday, Tuesday, & Thursday @ 5pm

Lab: The most important part of this course (*next week*)

Discussion/Tutorials: The most important part of this course (*this week*)

Staff office hours: The most important part of this course (*next week*)

Online textbook: http://composingprograms.com

	Monday	Tuesday	Wednesday	Thursday	Friday
Morning	Lecture Q&A		Lecture Q&A		Lecture Q&A
2pm	Lab Intro	Try the homework	Discussion Intro	Finish the homework	Projects are due Fridays
Later	Finish the lab		Tutorials		

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Piazza: All staff (private posts) and students (public posts)

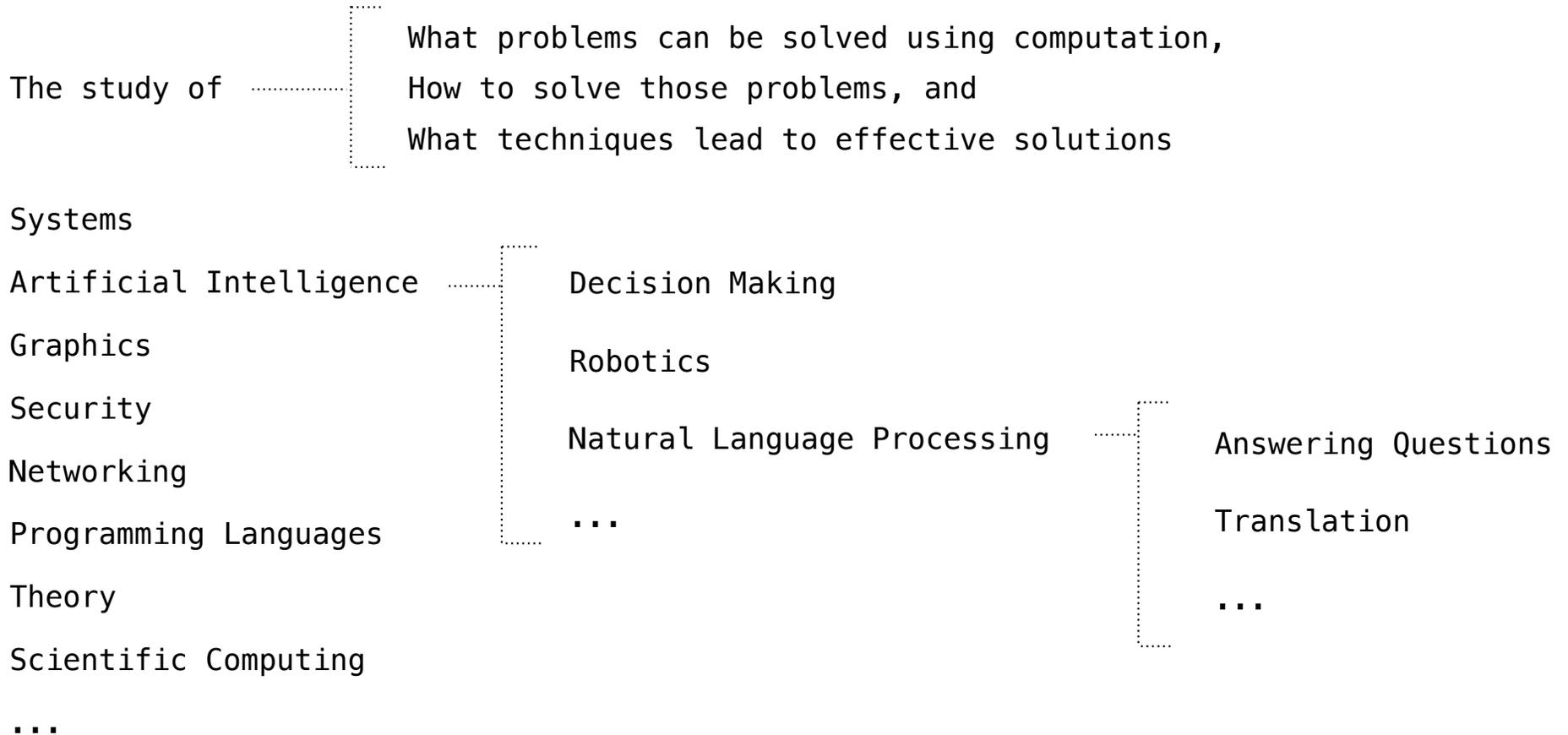**cs61a@berkeley.edu:** Head TAs and both instructors

Lecture Q&A with the instructors: Monday, Wednesday, & Friday mornings

denero@berkeley.edu or **hfarid@berkeley.edu:** Often the slowest option

cs61a.org: Self-service answers to many questions

An Introduction to Computer Science

What is Computer Science?

The study of ······
- What problems can be solved using computation,
- How to solve those problems, and
- What techniques lead to effective solutions

Systems

Artificial Intelligence ······
- Decision Making
- Robotics
- Natural Language Processing ······
  - Answering Questions
  - Translation
  - ...
- ...

Graphics

Security

Networking

Programming Languages

Theory

Scientific Computing

...

What is This Course About?

A course about managing complexity

   Mastering abstraction

   Programming paradigms

An introduction to programming

   Full understanding of Python fundamentals

   Combining multiple ideas in large projects

   How computers interpret programming languages

Different types of languages: Scheme & SQL

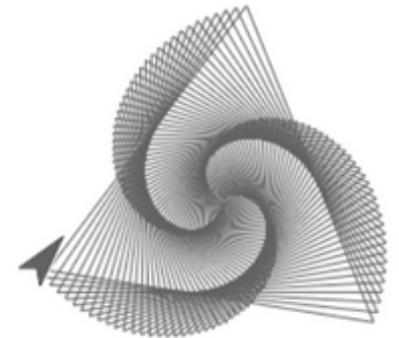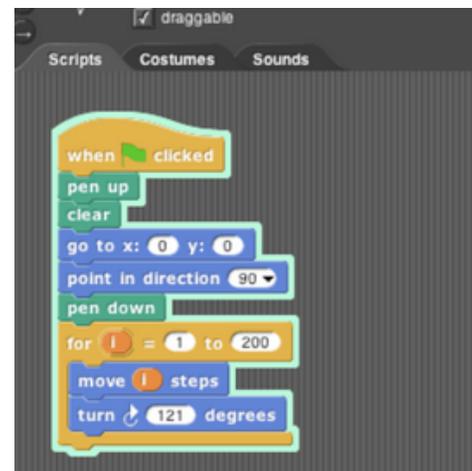A challenging course that will demand a lot of you

CS 10: The Beauty and Joy of Computing

Designed for students without prior experience

A programming environment created by Berkeley, now used in courses around the world and online

An introduction to fundamentals (& Python) that sets students up for success in CS 61A

More info: http://cs10.org/

Course Policies

Learning

Community

Course Staff

Details...

https://cs61a.org/articles/about.html

Collaboration

Asking questions is highly encouraged

- Discuss everything with each other; learn from your fellow students!

- Some projects can be completed with a partner

- Choose a partner from your discussion section

The limits of collaboration

- *Please* don't look at someone else's code!
  Exceptions: lab, your project partner, or **after** you already solved the problem

- *Please* don't tell other people the answers! You can point them to what is wrong and describe how to fix it, but don't tell them what to type, and don't type for them

- Copying project solutions causes people to fail the course

- We really do catch people who violate the rules, and we're getting better at it.

Build good habits now

Functions, Values, Objects, Interpreters, and Data

(Demo)

What happens next?

- Tutorials will meet today, starting now: <u>tutorials.cs61a.org</u>

- Watch Friday lecture videos Thursday or Friday (Posted to <u>cs61a.org</u> by 5pm Thursday)

- Optional: Lecture Q&A 9:10am Friday (will be recorded)

- Optional: Instructor "Ask Us Anything" session 2:10pm–3pm Friday 8/28 (no recording)

- No lab or discussion until next week

- We're done!