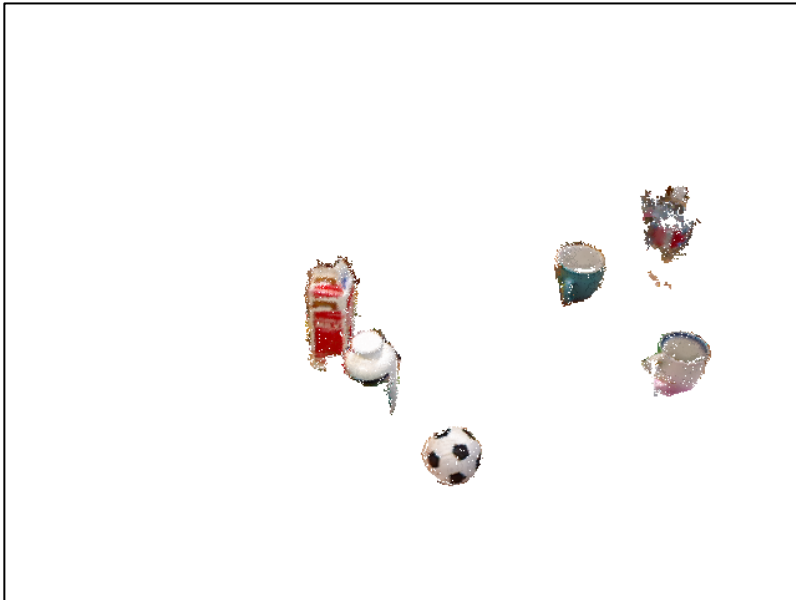# cs401, 10 / 6 / 11

1. whoami
2. Who are you
3. Questions from lecture
4. Project setup
5. Regex exercise

Who am I

- Evan Herbst
- `$ whoami`

  eherbst

- OH TBD
- My research: vision for mobile robotics

My Research: Finding Objects in 3-D Scenes

- Segment movable objects using scene changes over time

- Represent a map as static + dynamic parts

Who Are You: Pick Two

- Favorite class, and why
- Favorite class or research project, and why
- Favorite hobby
- Favorite robot movie, and why
- Interesting competition entered

Questions from Lecture?

- Lexing (aka scanning): convert characters to lexemes (aka tokens)

- Parsing: create a derivation for a sequence of lexemes in a language

- Regular expressions

- Finite state machines (aka finite state automata)

Project Setup

1. Install java, ant, eclipse
2. Download starter code
3. Build starter code from command line
4. Set up eclipse project
5. Build in eclipse

Regex exercise

- As in sec. 2.3 – 2.4, take this English description to a regex; build an NFA; convert to a DFA:

strings of 0s and 1s such that every sequence of two 1s must be preceded by at least two consecutive 0s and followed by at least three