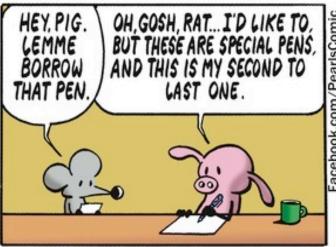
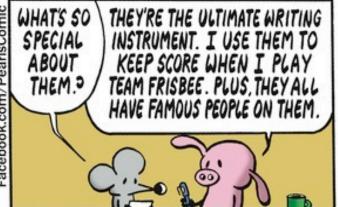
Building Java Programs

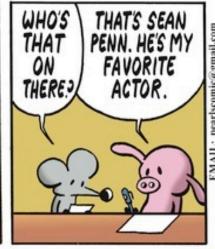
Parting thoughts

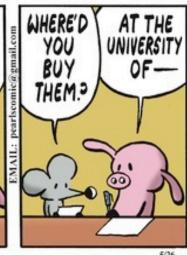
PEARLS BEFORE SWINE

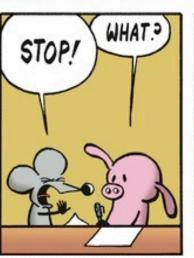
BY STEPHAN PASTIS

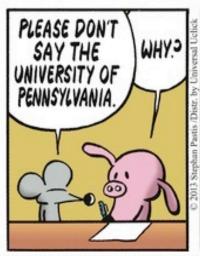


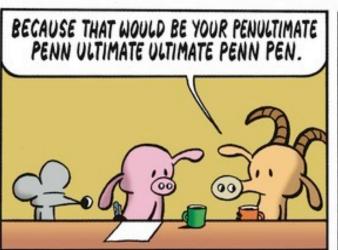












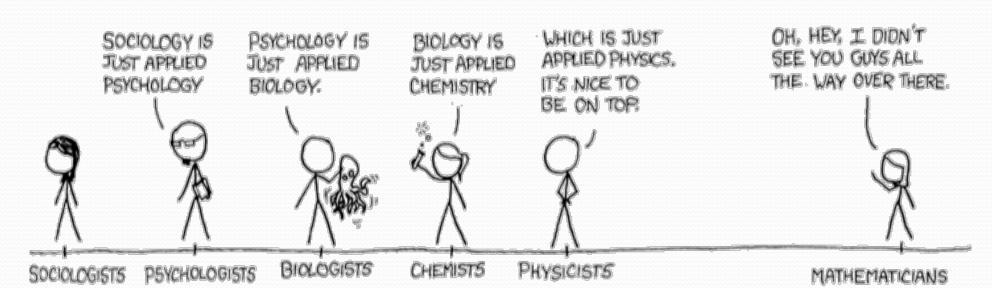


Today: penultimate "lecture"

One of my favorite words: penultimate

FIELDS ARRANGED BY PURITY

MORE PURE





PROGRAMMER

Implementing abstractions

Procedural

- Building block: method
- Steps of computation
 - Task-based

Object-Oriented

- Building block: class
- Reusable data entities
 - Modeling
- Appropriate for large-scale projects

http://docs.oracle.com/javase/7/docs/api/

Final exam

- Procedural: algorithmic problem-solving
 - Array mystery
 - Reference mystery
 - File processing
 - Array programming
- OO: applying rules, meeting a specification
 - Inheritance mystery
 - Reference mystery
 - Critter
 - Classes and Objects

What's next?

- Arrays are great, but how else can I organize data?
 - CSE 143 (then 373/332)
- How do I write more complex algorithms?
 - CSE 143 (then 417/421)
- How do computer scientists think about the world?
 - CSE 143 honors section
- Console apps are neat but I hear the web is the future?
 - CSE 154

What can CS help with?

UW or UW-affiliated projects

http://www.cs.washington.edu/research/

http://www.cs.washington.edu/education/ugrad/ academics/capstone.html

http://norfolk.cs.washington.edu/htbin-post/unrestricted/ colloq/search.cgi

Making cool movies



http://www.cs.washington.edu/research/ap/films.html

Shopping



Getting good deals No regrets.



http://news.cs.washington.edu/ 2011/11/25/new-york-times-on-orenetzioni-and-decide-com/

Free and Accurate Airfare Predictions

Find out if you should buy now or wait. Learn More



Protect Your Airfare with Fare Guard §

Buy later with peace of mind for only \$9.95. Learn More

Flying autonomously



http://www.youtube.com/watch?v=E7X0_6o9J10

Mind control







http://www.youtube.com/watch?v=qEv820jJgDY

Catching the bus

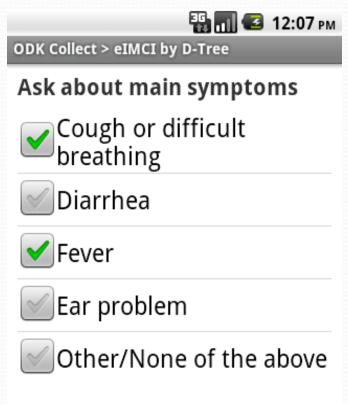


- How do we know where buses are?
- What's the best way to show information to the user?
- How do we create a service that can be accessed through phones, PCs, etc?

http://onebusaway.org/

Improving healthcare

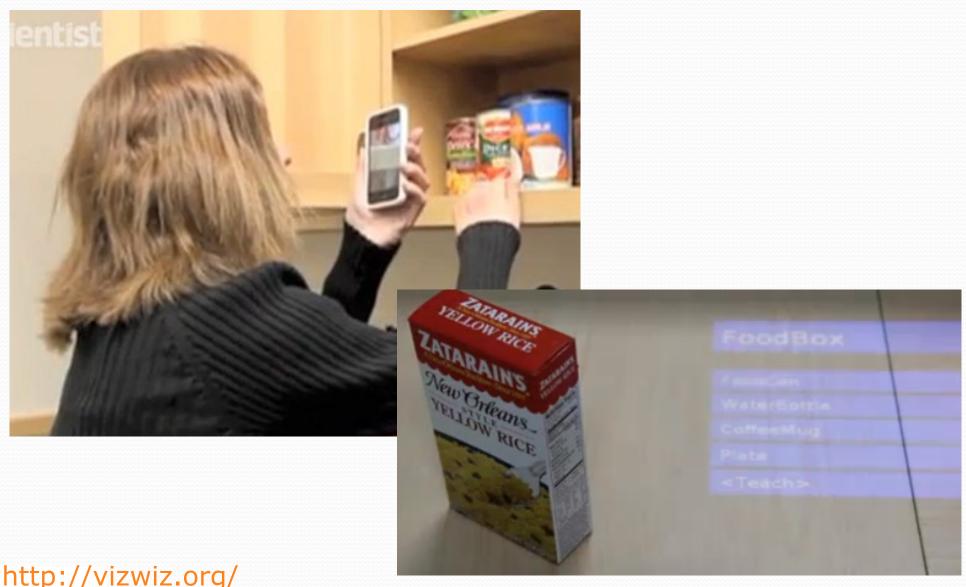




http://change.washington.edu/

http://tedxtalks.ted.com/video/TEDxSeattle-Gaetano-Borriello-0

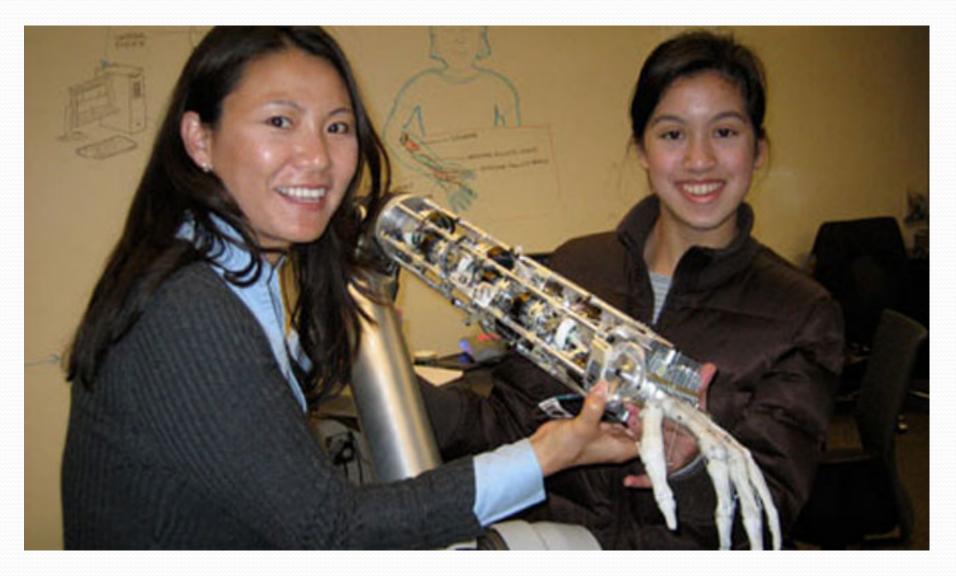
Seeing without eyes



http://vizwiz.org/

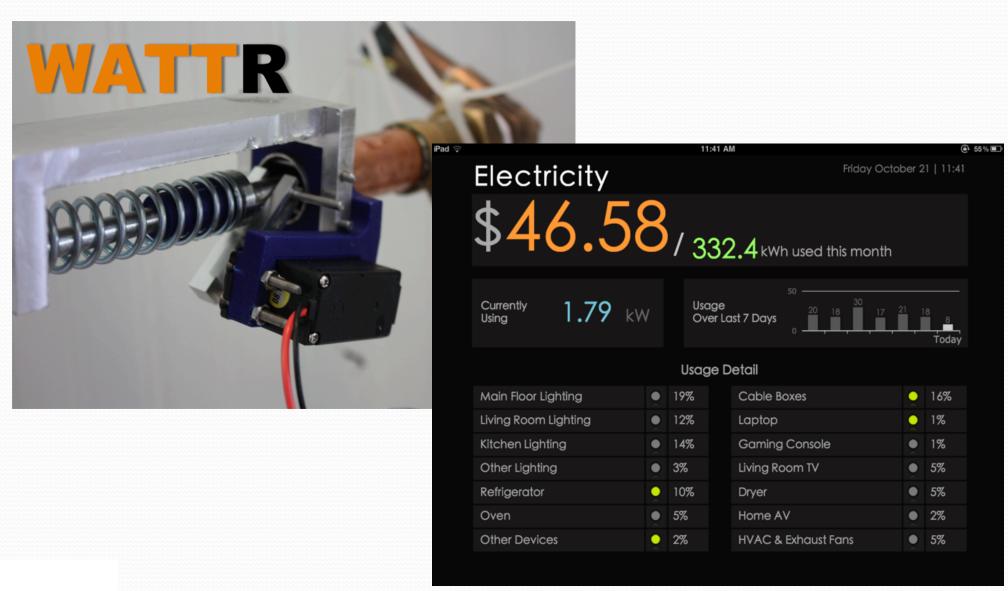
http://www.cs.washington.edu/rgbd-dataset/demos.html

Enabling movement



http://neurobotics.cs.washington.edu/

Using fewer resources



How will CS help you reach your goals?