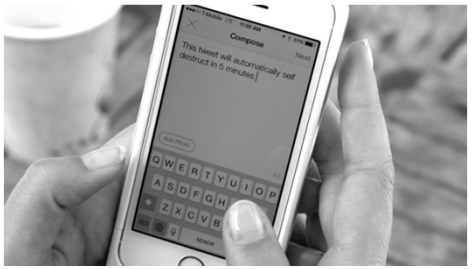
# The Beauty and Joy of Computing
## Lecture #11
## Social Implications of Computing I

**UC Berkeley**
**EECS Lecturer**
**Pierce Vollucci**




Your project partners may be in different sections, try to attend "Project Work" labs together

## DISPOSABLE POSTS?

Deleting your Facebook account? How can you leave social media or at least its infinite traceability? Some apps attempt to rectify this: Snapchat and Xpire but others such as Facebook seem to inhibit or hinder removing one's posts and data.

http://www.nytimes.com/2014/07/03/technology/personaltech/swear-off-social-media-forever-or-just-for-now.html?ref=technology

## EUROPE INSISTS THE RIGHT TO BE FORGOTTEN

In Europe, Google is accepting requests from individuals who want do not want their name appearing in links. However stricter legislation appears to be in the works as well as clarification on how Google (and Bing) is supposed to go about this process.

http://www.nytimes.com/2014/07/05/business/international/google-to-guardian-forget-about-those-links-right-to-be-forgotten-bbc.html?ref=technology

# Overview

- Privacy and Going Viral
- META: This course is NOT just about programming!
  - Lecs + Reading: Big ideas
  - Labs: Programming
  - Disc: Distillation
- Computers in Education
  - Most important use?
  - RSA Animate “Changing Education Paradigms”
  - UC Online Pilot
- Intellectual Property
- E-Voting

www.msnbc.msn.com/id/21134540/vp/39552594#39552594

# Karen Owen's Powerpoint

- Student at Duke who documented sexual encounters in PPT
  - 41 pages, photos and tables and graphs
  - Men are ranked, physical details shared
  - Shared with 3 others
  - Went Viral
- Lesson
  - Anything can go viral, permanently

**An education beyond the classroom: excelling in the realm of horizontal academics**

Karen F. Owen

Senior Honors Thesis
Duke University

Submitted to the Department of Late-Night Entertainment
in partial fulfillment of the requirements for a
Degree in Tempestuous Frolicing (D.T.F.)

May, 2010

# Robbins v Lower Merion School District

- Details
  - In 2009-2010 Lower Merion (near Philly) issued MacBooks to each of 2,306 HS kids
  - The schools elected to use TheftTrack to allow school district employees to remotely activate webcam
  - Classic case of spyware
- $610k settlement

Image Credit: wired.com

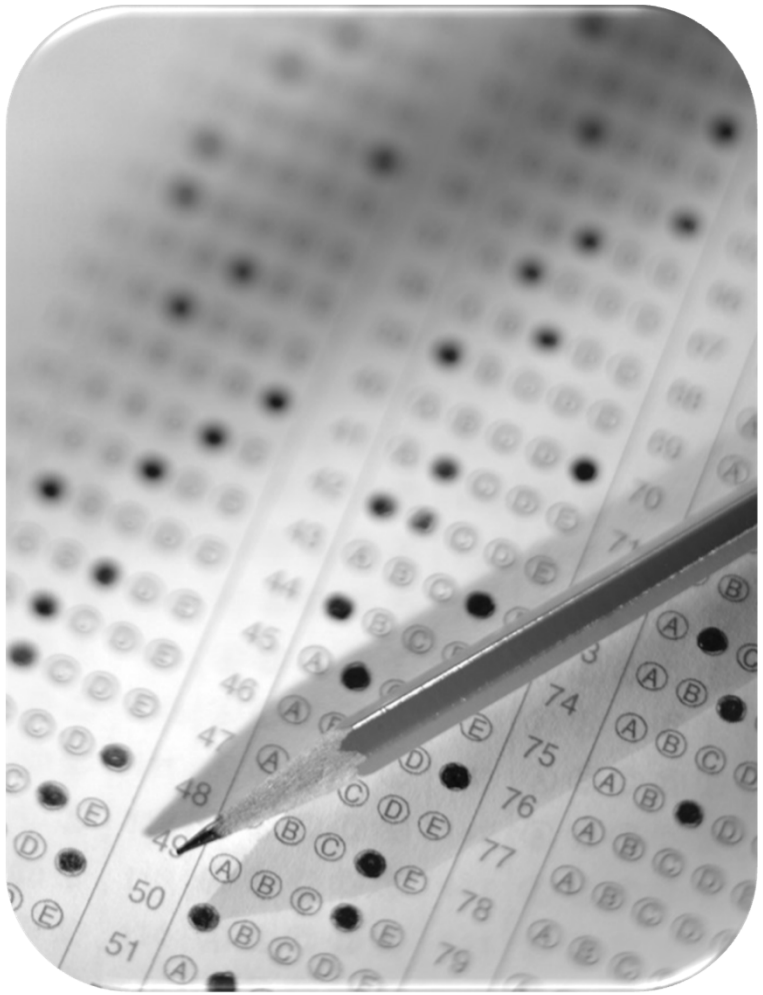
# Peer Instruction (thanks to BH)

The most important use of computers in education so far...

a) Web search
b) Arithmetic drill programs
c) Word processing
d) iclicker-like technologies
e) Social networking

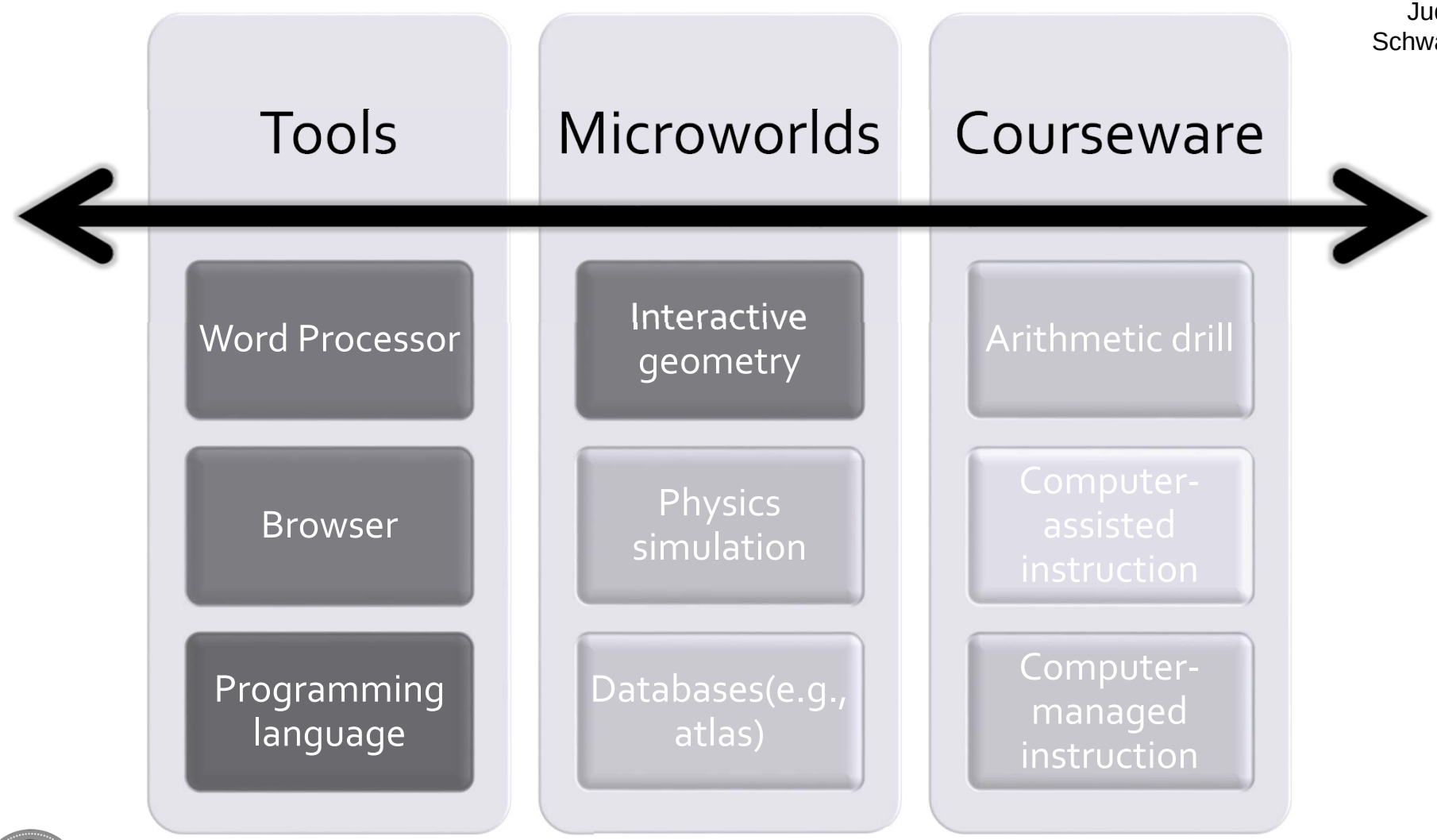

# Answer

- *"Multiple choice tests have changed what counts as knowledge in schools. Open-ended questions were the norm 30 years ago. The kind of knowledge you can report on multiple-choice tests is unimportant in the big scheme of things, and what's really important is not what you already know, but how you can take what you already know and apply it something you've never seen before. Multiple choice tests make that hard. Teaching follows tests! The folks who invented Standardized Testing didn't foresee how it would affect what knowledge means! (unintended consequence)"*
  – Brian Harvey



# Computers in Education (open?)

Judah Schwartz




Myphysicslab demo
ASSIST movie

www.youtube.com/watch?v=zDZFcDGpL4U

# RSA Animate : Changing Education Paradigms

# UC Berkeley Online Pilot

- Basics of Pilot
  - Blended vs Online
- What should we do?
  - How can CS10 be the course for everyone?
  - How can we use peers?
  - What'd help you most?
- Would you take this course if it'd been offered at another UC?
  - Does f2f matter?

# Taking CS10 Online (via UCOP, edX)

The most effective thing for your learning, if you were taking CS10 online (remotely)…

a) "Test yourself" mini-quizzes
b) More illustrations to learn hard concepts
c) Tree-structure interface to lectures
d) "In the browser" Snap! coding for labs so you don't have to leave the browser
e) A "smart" system that adjusts the difficulty of a problem to match your ability




Garcia + Vollucci

en.wikipedia.org/wiki/Copyright_Term_Extension_Act
copyright.gov

# Intellectual Property

- BH:
  - "We're going to make a bargain with creators. We're going to give you a limited time monopoly to profit from your idea in return for sharing your idea with us. … Congress keeps extending the duration of copyright"

Logo for opposition to CTEA

- US Constitution, Article I, Section 8:
  - "The Congress shall have power… to promote the Progress of Science and useful Arts, by securing for limited Times to Authors and Inventors the exclusive Right to their respective Writings and Discoveries."

creativecommons.org

# Creative Commons

- A GREAT way to share / remix / reuse content
  - Legal!
  - Infrastructure that makes it possible
- UC Online
  - This issue has come up; they have to find the right one…

| | BY = Attribution | Share Alike | No Derivs | Non Commercial |
|---|---|---|---|---|
|  | CC BY | | | |
|  | CC BY SA | x | | |
|  | CC BY ND | | x | |
|  | CC BY NC | | | x |
|  | CC BY NC SA | x | | x |
|  | CC BY NC ND | | x | x |

Garcia + Vollucci

# Peer Instruction


"I trust electronic voting machines & infrastructure."

a) I strongly disagree
b) I disagree
c) Neutral
d) I agree
e) I strongly agree

seattletimes.nwsource.com/html/localnews/2014398575_apwaxgrlegislature.html
video.google.com/videoplay?docid=7926958774822130737#
en.wikipedia.org/wiki/Hacking_Democracy

# E-Voting

- "Hacking Democracy" is an Emmy-nominated documentary
- Harri Hursti demonstrates "Hursti Hack" on Diebold machines thought safe
- Some states allow online voting (e.g., for military)
- It's really scary, folks