**DNSCHANGER SHUT DOWN**

The FBI busted an Estonian company in November 2011 for infecting over 4M computers with software that redirected access to certain links. A nonprofit operated replacement servers, but finally pulled the plug Monday.


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### Peer Instruction

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

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### Overview

- This course is NOT just about programming!
  - Lect + Reading: Big Ideas  
  - Labs: Programming  
  - Disc: Distillation  
- CS195 Social Implications of Computing  
- Computers in Education
  - Most important use?  
  - Judah Schwartz’s continuum  
  - RSA Animate “Changing Education Paradigms”  
  - UC Online Pilot

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### 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 to 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

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### Computers in Education (open?)

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### RSA Animate: Changing Education Paradigms

*Sir Ken Robinson Changing Paradigms*

Every country on Earth, at the moment, is reforming public education. *There are two reasons for it:*
Seymour Papert - Mindstorms

School teaches that errors are bad; the last thing one wants to do is pore over them, dwell on them, or think about them. The child is glad to take advantage of the computer’s ability to erase it all without any trace for anyone to see.

Why should we teach CS?

The debugging philosophy suggests an opposite attitude. Errors benefit us because they lead us to study what happened, to understand what went wrong, and, through understanding, to fix it.

Experience with computer programming leads children more effectively than any other activity to “believe in” debugging.

Papert, Mindstorms

Taking CS10 Online

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

a) “Test yourself” mini-quizzes
b) Mini-programming challenges
c) Tree-structure interface to lectures
d) HD video archived lectures
e) “Instructor takes the class” videos of us doing labs, HW, exams