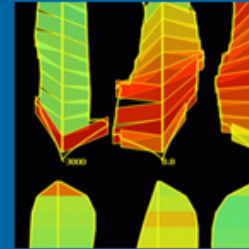
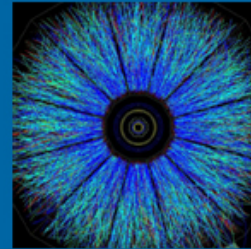
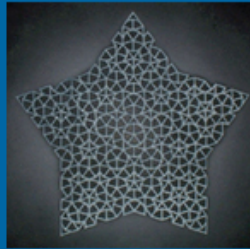




Swansea University
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CS-130: Social Issues in Computing

Changing Childhood



Learning Goals

What is censorship and how does it relate to filtering online content

What is the historical context of education

What new approaches does computing technology enable?

Four broad categories of censorship

Speaker by a state

- The Government doesn't let its citizens say something (achieved through legal or technical means normally)

Listener by a state

- The Government doesn't let its citizens hear something (achieved through legal or technical means normally)

Speaker by private actor

- A person or company doesn't let you say something (achieved through the legal means normally)

Listener by private actor

- A person or company doesn't let you hear something (through.....?)

When is censorship justified?

- 2. The exercise of these freedoms, since it carries with it duties and responsibilities, may be subject to such formalities, conditions, restrictions or penalties as are prescribed by law and are necessary in a democratic society, in the interests of national security, territorial integrity or public safety, for the prevention of disorder or crime, for the protection of health or morals, for the protection of the reputation or rights of others, for preventing the disclosure of information received in confidence, or for maintaining the authority and impartiality of the judiciary.*

European Convention on Human Rights, Article 10, 2
The European Union

Censorship: Restriction of Access to Broadcast Media

Films – rating system. Responsibility delegated to broadcasters. Market forces act directly against self-regulation, but social norms, law and architecture help enforce it

Television – in UK “watershed” after which sliding scale of “adult” material

- Enforced by complex legal, social and societal pressures

“You can have one bastard or two bloodys”

Architectural approaches - tried V-Chip (not successful) and now set-top boxes. Note: No legal forces.

Censorship: Restriction of Access to Online Media

Children have access to a wider range of media with the advent of widespread internet-enabled personal computing such as Smartphones, Tablet Computers, Web browsers in gaming consoles

Age restrictions to limit access?

- Trivially circumvented even when reinforced with credit card checks

Firewalls or filters on machines?

- Who decides what to filter and how do we educate parents about the systems?

A widespread issue in this field is “The child understands the technology better than the parent”

Online content and children

Exposure to pornography can be harmful for young children

- Impact very dependent on the individual's education
- Upsetting (material or fear of parents)
- Alters views of relationships

“Symantec Survey Reveals More Than 80% of Children Using Email Receive Inappropriate Spam Daily”

- But would a parent open their children's mail? Why the difference?

Parents often are less knowledgeable than their children!

The History of Education

The Romans introduced formal (fee paying) schools using methods adopted from the Greeks

- Boys and girls educated – not necessarily together
- Sons of rich men went to Athens

The European Dark Ages mainly had only practical education – fighting, hunting, farming

- The Church owned the only books – The Bible copied by hand
- Common people were not educated so very low rate of literacy
- Oxford University founded late 1100s

Learning Styles

*“Tell me and I forget, teach me and I may remember,
involve me and I learn.”*

- Benjamin Franklin

Good educational practice is to get students to engage in a variety of different forms of learning

- Old models of learner types (auditory, visual, kinesthetic) aren't real but they are a *useful lie* if you teach to all styles

What sort of delivery have these technologies enabled?

What could the big change be with intelligent computing?

Personalised Learning Environments (PLE)

One to many delivery or “broadcast” in the past has allowed many people access to education

- However, broadcast education comes with a price, if you fall behind you can't be helped
- This creates an environment that penalises failure which is the opposite of what is needed to learn

PLEs are a potential solution to this

- Allow people to learn at their own pace
- When someone struggles, allow them to keep practicing the skill they have trouble with
- But how do we do this if we only have 1 teacher and 30-40 children?

The future – Computer-Based Learning tools

Computer-Based Learning – Computers delivering education content to students in unique ways (games and computer based testing) in a monitored environment checking test results against “Knowledge Maps”

- + Creates a PLE
- + *Asynchronous learning* where everyone learns at their own pace
- + Reduced long term cost of delivery
- + Increased contact time?
- + Massive improvement for weaker students
- Decreased contact time?
- Cost of building the systems is high

The future - MOOCs

Massive Open Online Courses – Courses delivered using classical material via a website with final exams taken online and no requirement to attend in person

- + Allow institutes to deliver their teaching to a much larger number of people
- + Convenient
- + Reduces the cost of delivery
- Face-to-face contact diminished
- Plagiarism is an enormous concern

The future – E Portfolios

Electronic portfolios – An electronic record of all your educational accomplishments, more detailed than a final grade, including samples of your work

- + Mum can't lose your A-Level certificates (Thanks Mum!)
- + Allows employers to look over your skillset in a nuanced way
- Institutes need to be able to agree a common format
- Security issues?

Learning Goals

What is censorship and how does it relate to filtering online content

Censorship of speaker or actor and used to restrict children's access to material online

What is the historical context of education

Moved from none to privileged to free education

What new approaches does computing technology enable?

Personalised learning environments delivered via, for example, MOOCS or Computer based learning