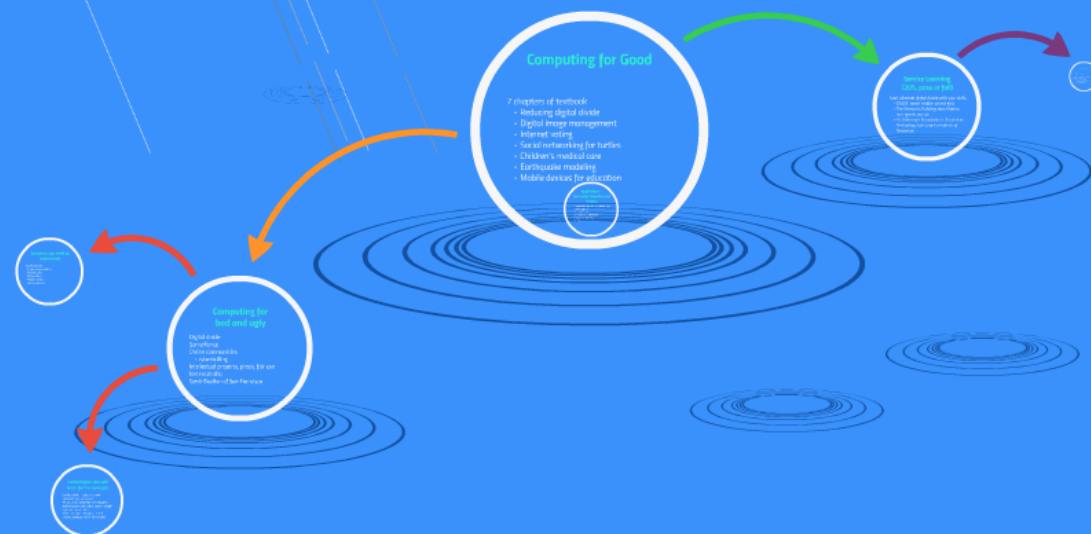


CS 480 Computers and Society

EJ Jung

1/22/2014



Application - Computer Security and Privacy

- You will do programming assignment (20% of grade)
- Basic networks
- Little bit of cryptography
- Security and privacy
- Ethics

Computing for Good

7 chapters of textbook

- Reducing digital divide
- Digital image management
- Internet voting
- Social networking for turtles
- Children's medical care
- Earthquake modeling
- Mobile devices for education

Application - Computer Security and Privacy

- You will do programming assignment (20% of grade)
- Basic networks
- Little bit of cryptography
- Security and privacy
- Ethics

Computing for bad and ugly

Digital divide

Surveillance

Online communities

- cyberbullying

Intellectual property, piracy, fair use

Net neutrality

Gentrification of San Francisco

Concepts you need to understand

- Confidentiality
- Privacy and anonymity
- Authentication
- Authorization
- Packet analysis
- Internet services

Technologies you will learn for the concepts

Confidentiality - public-key and symmetric-key encryption

Privacy and anonymity - Tor networks

Authentication and authorization - digital signature, secure hash

Packet analysis - Wireless, IP, TCP

Internet services - HTTP, SMTP, DNS



Service Learning (20%, pass or fail)

Goal: alleviate digital divide with your skills

- CS4SF: teach middle-school girls
- The Women's Building: teach latina immigrant women
- St. Anthony's Foundation's Tenderloin Technology Lab: teach residents of Tenderloin

Reflections

Weekly blog (10%)

How does computer technology make the society better or worse?

- Learn the technology in class
- Read what other people said
- Write your own thoughts

Computing for Good

7 chapters of textbook

- Reducing digital divide
- Digital image management
- Internet voting
- Social networking for turtles
- Children's medical care
- Earthquake modeling
- Mobile devices for education

Application - Computer Security and Privacy

- You will be preparing assignments
- Online posts
- Your website
- Link to other programs
- Social media posts
- Etc.

Service Learning (20%, pass or fail)

Goal: alleviate digital divide with your skills

- CS455F: teach middle-school girls
- The Women's Building: teach latina immigrant women
- SL Anthony's Foundation's Tenderloin Technology Lab: teach residents of Tenderloin



CS 480 Computers and Society

EJ Jung

1/22/2014

