### **Social concerns**

#### Technology changes our world rapidly

• Laws, traditions, social expectations change slowly

#### **Problems**

- Unemployment
- Crime
- Privacy
- Reliability
- Alienation / Lack of human contact
- Exclusion

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# **COMPSCI 111 / 111G**

#### Mastering Cyberspace: An introduction to practical computing

#### **Risks**

## Anonymity

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#### Questions

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- Is the Internet anonymous?
- Should it be anonymous?
- What are the implications of anonymity?

#### **Advantages**

- Allows discussion of sensitive issues
- sexual abuse, mental illness, substance abuse
- alt.support.impotence, alt.support.eating-disorders, etc.

#### Disadvantages

- Allows people to be irresponsible
- False accusations, Personal abuse

### **Social Imperialism**

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#### The Internet is an international resource

- Dominant language is English
- Dominant culture is American

#### **Smaller cultures**

- Diluted?
- Empowered?

#### Who \*really\* controls the Internet?

- Internet Corporation for Assigned Names and Numbers (ICANN)
- Top-level domain xxx

### "Dangerous" material

#### Material that could be misused?

- How to guide for stalkers, rapists, murderers
- How to pick locks, make guns, chemical warfare
- Make bombs out of household cleaners
- Make nuclear weapons

#### Other "dangerous" material

- Religious views
- Political views (Capitalism, Democracy, Socialism)
- Racial views

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- Invasion of privacy (abortion)
- Means to organise activists

## Peer to Peer networks

#### P2P

- Form a direct connection to other computers
- Allows access to files on those computers

### BitTorrent

Swarming downloads

## Copyright

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### Copyright Act (1994)

- May not legally make copies
- Backup permitted
- May not change format

### Copyright (New Technologies and Performers' Rights) Amendment Bill (Bill 102-2)

- Select Committee reported to parliament July 2007
- Passed second reading
- Allows format shifting

## Access across borders

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#### Medicine

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• Illegal Pharmaceuticals

### Films, Videos, and Publications Act (1993)

- New Zealand censorship laws
- Office of Film and Literature Classification

#### Two ways that censorship laws are broken

- Viewing illegal material
- Legal material being viewed illegally (by young people)

#### http://www.legislation.govt.nz/

#### http://www.parliament.nz

7

5

http://www.censorship.govt.nz/

## **Sexual Content on Internet**

#### WWW - Legal material

- Traditional Magazines (Playboy, Penthouse etc.)
- Peep shows, Live Webcams, Streaming video
- Amateurs

#### WWW - Illegal material

- Usually hidden
- Illegal in one country, legal in another
- · Sometimes archived by search engines

#### Email, Chat, Forums

#### **Social Networking**

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## **Protecting Children**

#### **Internet as Education Medium**

- · Internet available in schools
- Children, Parents, Teachers want access

#### Some material unsuitable for children

- X-Rated material
- Foul language
- Anti-social information

#### **Online attention**

- 57% of children (12-17) have created blogs or posted photos (U.S.)
- 20% of children (10-17) receive unwanted sexual solicitation (U.S. DOJ)
  - Estimated 1 in 4 of these are from pedophiles

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10

12

## **Research - "Girls on the Net"**

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### Survey in New Zealand 2001 (11-19 year olds)

- 68.5% were using the Internet most days.
- 33.5% have had a personal face-to-face meeting with someone they met on the Internet.
- 60% had done at least one potentially unsafe behaviour.
  - 35.5% gave out personal information e.g. address/phone no.
  - 26.5% sent a photo of themselves to someone they met
  - 14.5% had posted a picture of themselves on the Net.
- 95.5% use the Internet at home
  - 75% of users state that their use of the Internet at home is only occasionally (37.5%) or never (37.5%) monitored by an adult.
- 44.5% use the Internet at school
  - 58% of users state that their use of the Internet at school is monitored only occasionally (28.5%) or never (29.5%) by an adult.
- 22.5% report having felt unsafe or threatened while using the Internet (most commonly from sexual threats).

## Methods available to parents

#### Supervise your children

- Situate computer in public place (lounge)
- Check the logs of sites visited
- Discuss Internet content with your children

#### **Blocking software**

- · Stops access to sites based on the IP address
- White list / Black list

### **Filtering software**

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- · Stops access to sites based on the content
- Keyword / phrases / image analysis
- PC, ISP, Third-party

#### http://www.netsafe.org.nz/research/research\_girls.aspx

#### http://www.aba.gov.au/newspubs/documents/filtereffectiveness.pdf

## **Malicious Software (malware)**

#### Logic Bomb

- Deliberate error left in software by the programmer
- Triggered by a predetermined event

#### Trojan

• Real purpose of the program is disguised

#### Worm

- Replicate across a network
- Does not attach itself to other files

#### Virus

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- Attaches itself to existing files
- Replicates by modifying other files

## **Trojan Horse**

#### Login Trojan

- · Common in environments with shared computing resources
- · Stores Login and Password details entered

onnect to Electronic Campus			
NetID:	alux001		
NetPassword:			
Remember Login Name		Login	

#### http://en.wikipedia.org/wiki/Trojan\_horse\_%28computing%29

13	10/10/2007	COMPSCI 111/111G - Social Risks and Legal Issues	14

## **References - Social Issues**

COMPSCI 111/111G - Social Risks and Legal Issues

#### Internet Safety Group (NZ)

• http://www.netsafe.org.nz/

### **Report on Filtering**

http://www.aba.gov.au/newspubs/documents/filtereffectiveness.pdf

#### Ministry of Economic Development

- http://www.med.govt.nz
- Copyright Law
- Broadband
- SPAM

### **Virus References**

http://www.mcafee.com/anti-virus/

http://www.symantec.com