

302: basic hacking examples

- Robert Morris internet worm
- Melissa virus
- Credit card extortion
- Cyberstalking
- Flaming
- Spamming

Categorization of Scenarios

- Hacking, a “new” crime
- Use of internet to facilitate known crimes
- Netiquette

Features of Internet Communication

- Global, many to many scope
- Anonymity
- Reproducibility

Global, many to many scope

- cf face to face communication
 - internet allows us to reach out **globally**
 - quicker
 - easier than other modes
- tv and radio are *one-way* modes
 - internet gives many-to-many connections (web!)

Anonymity

- crucial feature of anonymity (Wallace) - whether information about us can be linked or coordinated with other information
 - the more links, the less anonymity
- “perception” of anonymity via internet?
 - how do people act?
 - is there indeed “traceability”?
 - like a telephone? (but legally the same???)

Reproducibility

- Not a new phenomena?
- What IS new about it?
 - scale
 - speed, ease, expense, access
 - taking a copy does not “take” the original
 - what happens to the “supply-demand” curve?

Ethical Points

- “individuals can disrupt, steal, cause property damage, snoop, harass, stalk, extort, defame **from greater distances** and in new ways...”
- “that **sense of invisibility** seems to free many to engage in behavior that they might not otherwise engage in...”

Technology as Mediator

- Is technology (computing technology) a mediator that
 - increases the ethical “distance” with which I view my interactions when using it?
 - bombing by “drones”
 - “stealing” by Napster
 - where does accountability lie?

Hacking in General

- Is this a new passtime?
 - Define the general activity, is it new?
 - Phone Phreaking (Captain Crunch, early 70's)
 - Ham operators, ...
- Hackers: Heroes or Villains?
 - or some of each?
 - cultural stuff: Robin Hood, rogue cops, ...
 - exactly *what* is this phenomena? new? new features?
 - any females in this?

Hacking Issues

- Access to systems: authorization
 - private
 - public
 - destructive
 - non destructive
 - public perceptions
 - fear
 - government power

Hacker Arguments

- All info should be free
- We expose poor security
- We do no real harm, just looking and learning
- We expose abuse of power - big brother

Hacker Issues Social or Technical?

- Delineate the boundaries of social problems and solutions
- Delineate the boundaries of technical problems and solutions
- How to attack problem with dual nature?