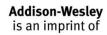


# Lecture 9 Networked Communications



#### **Participation Quiz**

Which of these things is the least like the others?

- A. A wrench
- B. Running
- C. Stickiness
- D. Karl Marx
- E. Email

#### **Movie Download Scenario**

- InterMovies is a site that streams movies for a flat monthly fee
- Collects information about movie choices from customers
- Constructs profiles of customers
- Sells profiles to direct marketing firms
- Some customers happy to receive more mail order catalogs; others unhappy at increase in "junk mail"

## **Evaluation (Social Contract Theory)**

- Consider rights of InterMovies, customers, and mail order companies.
- Does customer have right to expect name, address to be kept confidential?
- If customer watches movie using InterMovies, who owns information about transaction?
- If InterMovies and customer have equal rights to information, InterMovies did nothing wrong to sell information.
- If customers have right to expect name and address or transaction to be confidential without giving permission, then InterMovies was wrong to sell information without asking for permission.

Based on slides © 2011 Pearson Education, Inc. Publishing as Pearson Addison-Wesle

#### What do you think about InterMovies?

- Now, let's explore both scenarios. Work in groups of six to consider whether each of the following scenarios can be justified using social contract theory.
  - Customer doesn't have the right to privacy
    - Can you construct a system of rules that rational people would accept as beneficial, given that others would accept these ideas as well?
    - Does this system of rules meet Rawls' conditions?
  - Customer does have the right to privacy
    - Can you construct a system of rules that rational people would accept as beneficial, given that others would accept these ideas as well?
    - Does this system of rules meet Rawls' conditions?

#### Let's vote:

- We can justify the no-privacy scenario (A=true)
- We can justify the privacy scenario (A=true)
- Which social contract would you prefer (A=no privacy; B=privacy)

#### **Case for Social Contract Theory**

- Framed in language of rights
  - Intuitive and natural
- Explains why people act in self-interest without common agreement
  - Logically, it's the best thing to do (prisoner's dilemma)
- Provides clear analysis of certain citizen/government problems
  - Why is it right to punish someone for a crime?
  - Why is civil disobedience justifiable?

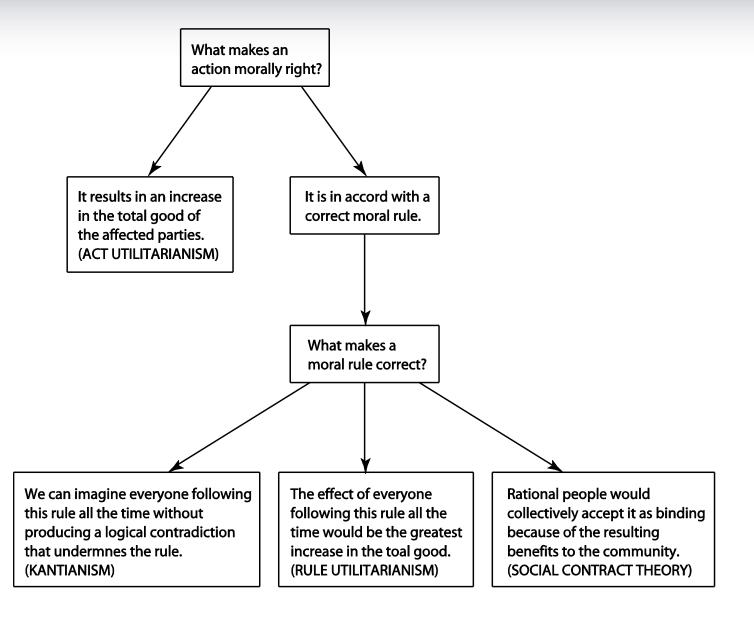
#### **Case Against Social Contract Theory**

- No one signed a contract
- Some actions have multiple characterizations. In such cases, we don't learn how to make trade-offs between these conflicting rights.
  - Same problem we saw with Kantianism, though phrased in terms of duties instead of rights.
- May unjustly treat people who cannot uphold contract
  - In principle, we should distinguish between people who can't follow the contract, and those who choose not to.
  - In practice, this can be hard to do.

#### Summary: Objectivism vs. Relativism

- Objectivism: Morality has some kind of existence outside a given human mind
- Relativism: Morality is subjective
  - This is clearly not going to get us anywhere persuading anyone else with a moral argument.
- Kantianism, utilitarianism, and social contract theory are examples of objectivism
  - So are divine command theory and ethical egoism, but we rejected these as poor bases for ethical argumentation.

# **Comparing Workable Ethical Theories**

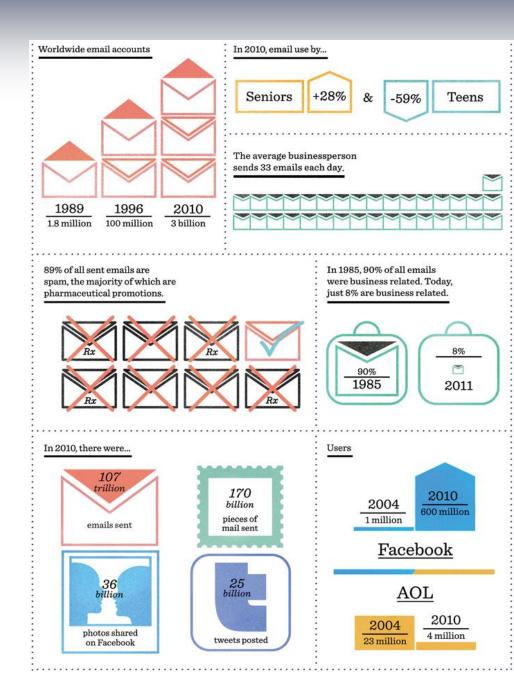


So much for ethical theories. Let's transition to:

#### **NETWORKED COMMUNICATIONS**

## The Spam Epidemic

- Spam: Unsolicited, bulk email
- Spam is profitable
  - More than 100 times cheaper than "junk mail"
  - Profitable even if only 1 in 100,000 buys product
- Amount of email that is spam has ballooned
  - 8% in 2001
  - 90% in 2009



# **Ethical Evaluations of Spamming**

The book argues from each perspective that spamming is wrong. Let's see if we can make the arguments ourselves:

- Kantian evaluation
- Act utilitarian evaluation
- Rule utilitarian evaluation
- Social contract theory evaluation

Which of these do you find most/least convincing?

#### **Need for Socio-Technical Solutions**

- New technologies sometimes cause new social situations to emerge
  - Calculators → feminization of bookkeeping
  - Telephones → blurred work/home boundaries
- Spam is an example of this phenomenon
  - Email messages practically free
  - Profits increase with number of messages sent
  - Strong motivation to send more messages
- For communications to be perceived as fair, they need to be two-way (allowing consequences for misuse)
  - Internet design allows unfair, one-way communications

#### **Government Control of the Internet**

- Myanmar, Cuba, North Korea: Internet virtually inaccessible
- Saudi Arabia: centralized control center
- People's Republic of China: "one of most sophisticated filtering systems in the world" as well as censorship
- Germany: Forbids access to neo-Nazi sites
- United States: limit access of minors to pornography

#### **Forms of Direct Censorship**

- Government monopolization of a communication medium
  - E.g., the government owns all television stations, or all printing presses, and so controls the message
  - Doesn't work so well with the Internet
- Prepublication review
  - Certain kinds of information must be reviewed before they can be published
  - E.g., nuclear/military secrets
- Licensing and registration
  - You can't operate a TV station without a license
  - Necessary because of limited bandwidth
  - Opens the door to regulation of content

# Self-censorship

- Most common form of censorship
- Group decides for itself not to publish
- Reasons
  - Avoid subsequent prosecution
  - Maintain good relations with government officials (sources of information)
- A "soft" form of self-censorship: ratings systems
  - Movies, TVs, CDs, video games
  - Nothing similar has happened on the Web
    - At least, not consistently.

#### **Challenges Posed by the Internet**

- Many-to-many communications
  - Hard for the government to shut down (but, Arab Spring)
- Dynamic connections
  - Computers coming and going all the time; hard to know who's who
- Huge numbers of Web sites
  - Hard to control access to online information
- Extends beyond national borders, laws
  - Governments may have limited authority to shut down sites
  - E.g., SOPA
- Hard to distinguish between minors and adults
  - Important for initiatives that seek to restrict children's access

#### **Ethical Perspectives on Censorship**

- Kant opposed censorship
  - Product of the Enlightenment: reaction to institutional control
  - "Have courage to use your own reason"
- Mill opposed censorship
  - 1. No one is infallible: we may silence the truth.
  - 2. Even if not, an opinion may contain a kernel of truth.
  - 3. Even if not, the truth must be rationally tested and validated.
  - 4. Ideas are most persuasive if they're tested rigorously.

#### Principle of harm:

"The only ground on which intervention is justified is to prevent harm to others; the individual's own good is not a sufficient condition."

Based on slides © 2011 Pearson Education, Inc. Publishing as Pearson Addison-Wesley