

**Comp 100
Lecture Notes
Chapter 9**

Data Protection

Cell Phone backups – Snap secure app – secure site – regular intervals

Cybercrime

- Criminal action perpetrated primarily by the use of computer systems
- www.fbi.gov/about-us/investigate/cyber/cyber

Federal Bureau of Investigation (FBI)

National White Collar Crime Center (NW3C)

Internet Crime Complaint Center (IC3)
2010 304,000 complaints

<http://www.ic3.gov/media/2012/121023.aspx>

- Non-delivery of Payments/Merchandise
- Identity Theft
 - Spam
 - Stolen wallets/purses
 - Stealing mail
 - Culling trash cans for personal information
 - Posing as officials – tricking individuals into revealing personal information
 - Installation of skimming machines on ATMs, credit card readers, etc.
 - Etc.
- Auction Fraud
- Bank fraud
- Mortgage Fraud
- Credit Card Fraud
- Computer Intrusions
- Extortion
- Blackmail
- Child Pornography
- Insurance Fraud
- Credit Fraud

http://www.itu.int/ITU-D/cyb/cybersecurity/docs/ITU_Guide_A5_12072011.pdf

Larceny

- Theft of Computer Hardware

Theft of Computer Software

Is it Larceny?

Is it a Crime?

Is it simply a Copy Write Violation?

http://www.fastiis.org/our_services/enforcement/software_theft/

<http://dictionary.reference.com/browse/software+theft>

Virus

- Fragment of code – not an entire program
- replicates itself as many time as is possible
- each copy must find residence in a host file
- normally remains inert until the file is opened or executed
- effects
 - slow systems
 - display annoying messages
 - destroy files
 - format hard drives
 - steal information
 - disrupt the social network

Boot-Sector Viruses

- master boot record – program used to start the operating system
- virus in the master boot record will be loaded into memory with the O/S
- Cnt'I – Alt – Delete

Logic Bomb

- Virus triggered by logical condition
- Executing a specified program

Time Bomb

- Virus triggered by passage of time or by certain date
- Michelangelo's Birthday 6 March 1475
http://en.wikipedia.org/wiki/Michelangelo_%28computer_virus%29
- No paycheck issued to specified employ for four weeks
- E-mail Attachments
 - BlackWorm, i.e., Kama Sutra, i.e., Mywife, i.e., CME-24
 - 3rd of Month – locates & deletes specified file types, e.g., .EXE files

Worms

- Not a code fragment; hence not actually a virus
- Often referred to as a virus
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Start Here, finish the notes as an exercise

Web Robots (bots)

- **Search engine bots – spiders search & index web pages**
- **Buy large blocks of high-demand concert tickets from ticket ordering sites**
- **Make repeated entries into contests in attempts to win prizes**
- **CAPTCHA – generate distorted text to be typed into input box**