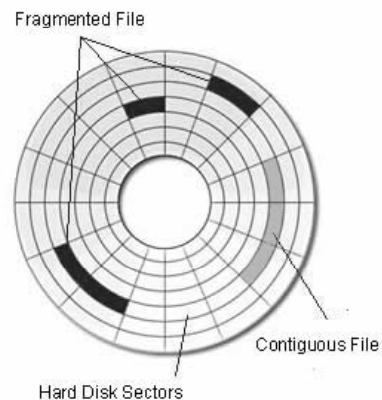


Data Security and Digital Crime

Dannelly's CSCI 101 Sections
Week Six

How Data is Stored on Disks

- 1s and 0s
- Sectors
- Directory
 - file deletion
- Disk Fragmentation
- File Compression



<http://www.detto.com/rmf/data-recovery-how-to.html>

"Permanent" Storage Media

- Computer Hard Drive
- Optical Disks
 - CD
 - DVD
- Tape Backup System
- Solid State Drive
 - Flash Drives
 - Solid State Hard Drives

Harmful Software

- **Virus**
 - usually destroys files
- **Worm**
 - objective: destroy the network, not your PC
- **Trojan Horse**
 - a virus that arrives inside something else
- **Spyware**
 - runs on your computer and steals information

Protection

- **Anti-Virus Software**
 - looks for known viruses and common virus formats
- **Firewalls**
 - prohibits unauthorized external access
- **Use good Passwords**

Computer Crime

- **Types of Computer Crime**
 - Making and Spreading Viruses
 - Stealing Corporate Data
 - Destroying Corporate Data
 - Denial of Service Attack
 - you can shut down cnn.com by quickly hitting it with thousands of bogus requests
- **Most corporate computer crime is done by employees**