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Types of Malware

- 7 types:
 - Viruses
 - Worms
 - Trojans
 - Spyware
 - Adware
 - Ransomware

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Types of Malware

- Virus
 - Attaches itself to existing files and runs the virus code whenever the host file is accessed/run

- Worm
 - A standalone program that deliberately tries to exploit vulnerabilities in order to spread copies of itself to more machines

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Types of Malware

- Trojans
 - A malware program used to infect a computer by misleading users of its true intent
 - Usually used to gain access to sensitive information
- Spyware
 - Software that hides on your computer in order to 'spy' on you. Possibly monitor keystrokes, record websites, etc.

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Types of Malware

- Adware
 - Similar to spyware but designed to redirect you to certain websites (advertising) or display popups
- Ransomware
 - Installed covertly on a computer and locks/encrypts user data making it unavailable
 - Demands a ransom payment to restore access

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What do they do?

- ▣ Copy themselves into other files
- ▣ Execute various 'payloads'
- ▣ Delete files
- ▣ Do something on a particular day
- ▣ Spread themselves (worm, or email virus)

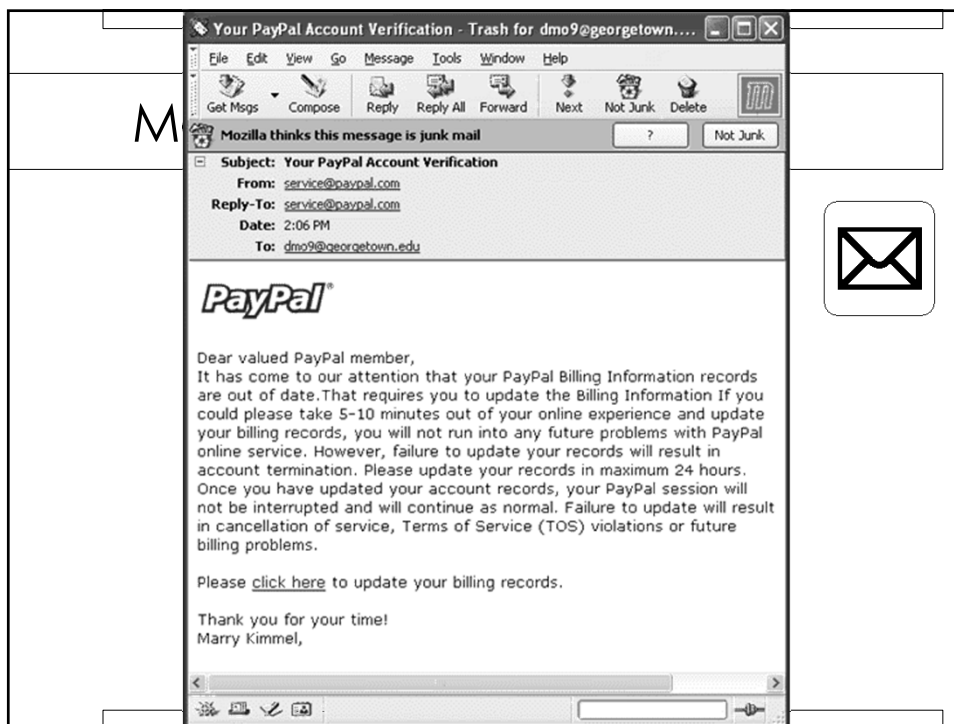
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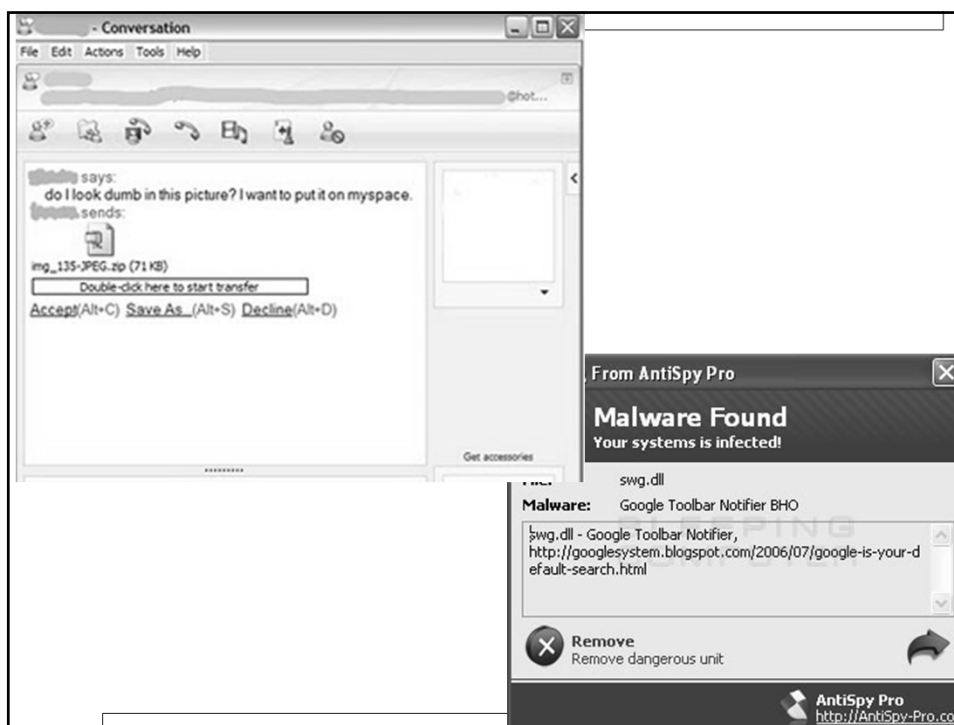
Prevent Malware

- ▣ How can you catch one?
 - ▣ Which way?
 - ▣ USB Drive
 - ▣ Downloaded from Internet
 - ▣ From network (school or work)
 - ▣ In an email
 - ▣ In an instant message

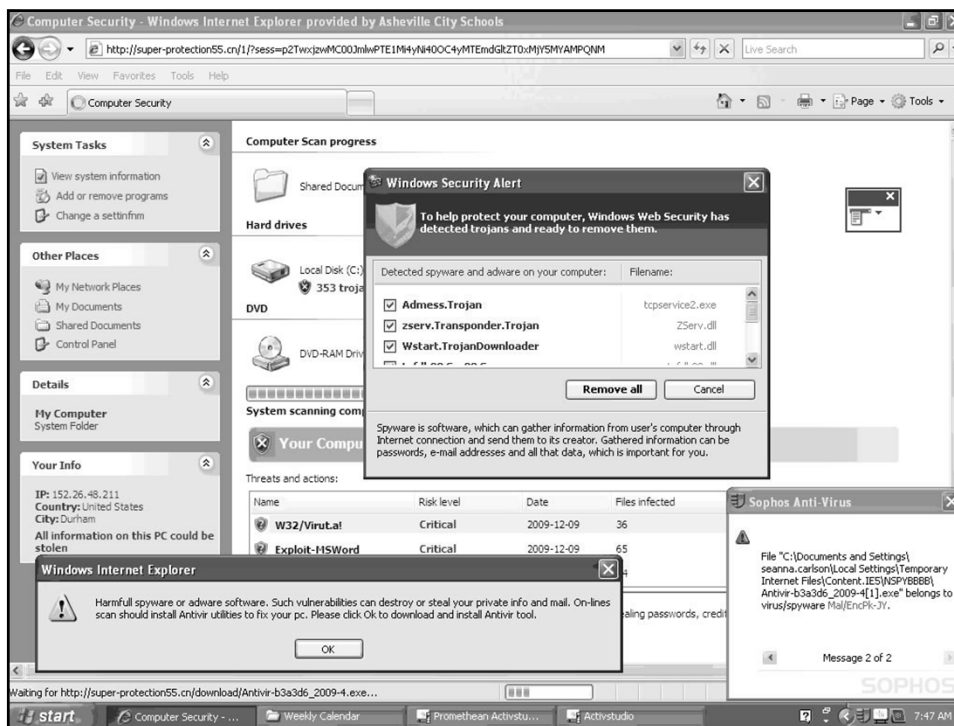
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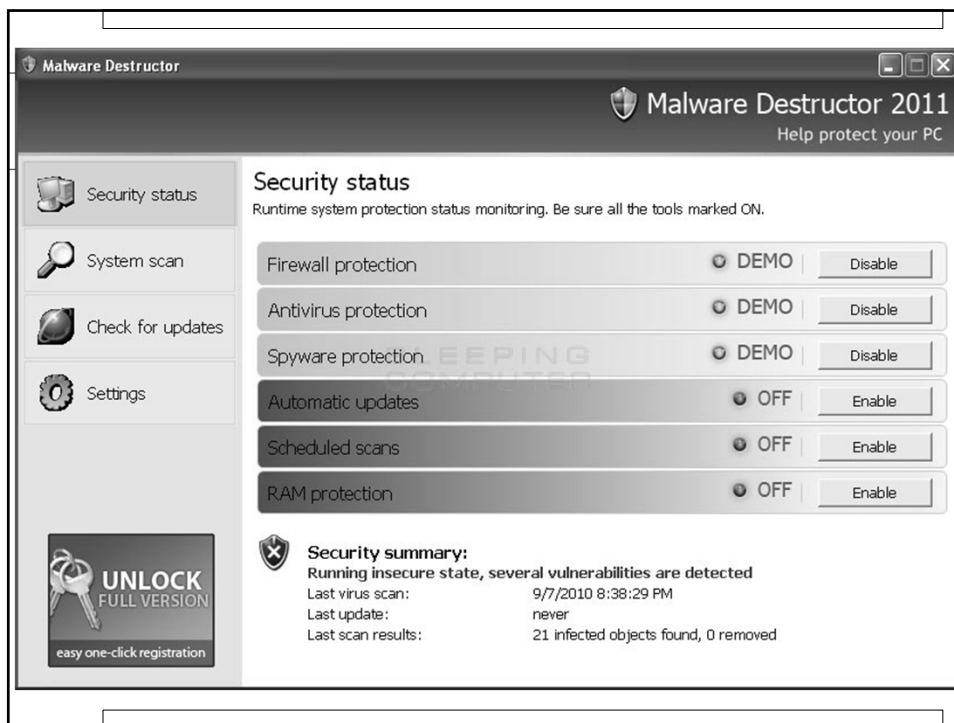
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Prevent Malware

- ▣ Avoid downloading every little installer
 - ▣ Consider what you are installing
- ▣ Avoid programs downloaded via P2P networks (**torrents**, etc)
- ▣ Install anti-virus, such as AVG or Avast
- ▣ Install anti-malware software such as MalwareBytes or Spybot

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Cyber Security Lab

- ▣ Visit:

to.pbs.org/3LyoxK2

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