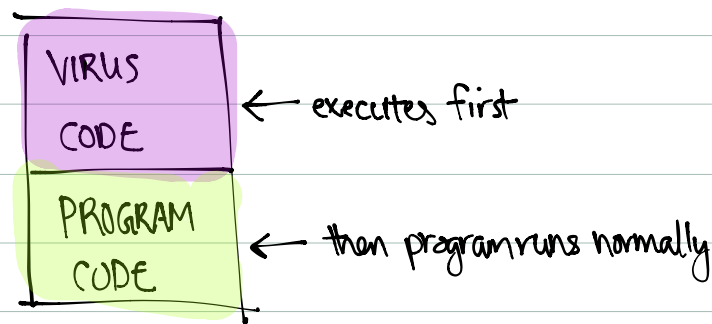


Malicious Software:

- software with malicious intent
- needs to be executed to do harm
- ↳ can run by :
 - email
 - Removable media
 - web page
 - exploiting buffer overflows

Viruses

- infects other files
- do not only infect executables, also documents as well
- when virus runs, it tries to infect other files



- To infect host, virus duplicates itself to top of other programs
- copy itself as a macro to documents

Virus Code:

- Try to infect other programs
- may infect host operating system

- ↳ add itself to startup / boot sector
 - evade detection
 - execute payload
- } later

Worm spreads on its own - **virus** requires user action to spread

Virus - needs a host program / file

Payload

- To evade detection by disabling anti-virus
- actual malicious activity

Virus History

- Initial viruses were proof-of-concepts
- 1980s - removable storage
- ↳ boot sector viruses

Kenzero

- 2010
- Spread through P2P
- ransomware

Flame

- 2012
- toolkit

- cyber espionage
- related to Stuxnet