



# SPAM AND VIRUSES

LOVELY SPAM! WONDERFUL SPAM!  
LOVELY SPAM! WONDERFUL SPAM!

SPA-A-A-A-A-A-A-AM

SPA-A-A-A-A-A-A-AM

SPA-A-A-A-A-A-A-AM

LOVELY SPAM! (LOVELY SPAM!)

LOVELY SPAM!

SPAM, SPAM, SPAM, SPAM!

- MONTY PYTHON (1972)

# Spam

- 'Spiced' and 'Ham'  
1937 Hormel Foods Corporation (USA)    minced sausage
- 1970 Monty Python's Flying Circus (British sketch comedy series)  
Spam song    <https://www.youtube.com/watch?v=g8huXkSaL7o>  
Unwanted, obtrusive, excessive information
- Today 'spam' --- email terminology

# Viruses

- Trojan horses & Worms  
Create exact copies of themselves  
Use communications between computers to spread
- You can get a virus just by reading email  
Change system settings  
Send the virus to other users via email

# Typical Spam

More than half of the spam email are:

- Offering you drugs without a prescription
- Financial services, e.g. mortgage offers or schemes for reducing debts
- Get-rich-quick schemes
- Personal email: qualifications, e.g. university degrees, or professional titles available for purchase
- On-line gambling
- Cut-price or pirated software.

# PREVENTION



- Use the “Report as a Spam” feature of your email service providers
- Watch carefully for any checkbox for newsletters
- Think carefully before signing up for free products
- Check with your Internet Service Provider for their SPAM policy
- Beware when unsubscribing

# PREVENTION



VIRUSES

- Anti-virus: install, keep up to date and run regularly.
- Keep your operating system up to date.
- Secure your network
- Avoid clicking on everything



# PREVENTION



VIRUSES

- Don't use any open Wi-Fi
- Don't go where you are not suppose to
- Clear your cache
- Be careful when downloading attachments

# SPAM LAWS AND REGULATIONS

## Canada

- Personal Information And Electronic Documents Act 2000 (PIPEDA)
- Canadian Anti-Spam Legislation 2014 (CASL)

## United States

- Controlling the Assault of Non-Solicited Pornography and Marketing Act of 2003 (CAN-SPAM Act of 2003)

## European Union

- General Data Protection Regulation 2018 (GDPR)



# SPAM LAWS AND REGULATIONS

## C.A.S.L. - Fast Facts

- Sending commercial emails without consent
- alteration of transmission data without your express consent;
- installing computer programs without the users express consent
- promoting products or services online using false or misleading representations;
- collecting personal information by accessing a computer system or electronic device illegally
- collecting or using electronic addresses using computer programs without your permission

# SPAM LAWS AND REGULATIONS

## Implied Consent

- Existing Business Relationship
- Existing Non-Business relationship
- Conspicuously Published
- These are all subject to a time limit (24 months)

## Expressed Consent

- Person has clearly agreed (verbally or written) to receive communications.

It is the responsibility of the sender to keep records of this information.

# SPAM LAWS AND REGULATIONS

## CASL Enforcement

- Canadian Radio And Television Commission (CRTC)
- Competition Bureau
- Office Of The Privacy Commissioner

## CASL Education and Coordination

- Innovations, Science, Economic Development Canada
- Spectrum Information Technologies and Telecommunication Sector (SITT)
- Office of Consumer Affairs
- <http://fightspam.gc.ca> - to report a violation or educate yourself

# Malware and Antivirus Laws

## Cyber crime Enforcement

- Canadian Anti-Fraud Centre (CAFC)
- RCMP
- Department of Justice
- Public Safety Canada
- Canada Revenue Association (CRA)

Most notably is the Protecting Canadians From Online Crime Act (2014)

<http://www.antifraudcentre-centreantifraude.ca/> - to find out more

# Botnets

- Account for potentially 97% of Spam and Malware on the Internet
- Resilient and Ever evolving
- HNS Botnet has grown from 12 devices to 20,000 in the past 6 months
- Used by criminal organisations to launch sophisticated ransomware attacks using Tor and Bitcoin





# SPAM LAWS AND REGULATIONS

## Charges Under CASL

- 300,000 Average complaints per year since its inception
- Over 1 million complaints to date
- Only 8 public charges as of November 2017

porter





The background is a blue gradient. In the corners, there are decorative white lines resembling circuit traces or neural network connections, with small circles at the endpoints.

THANK YOU!