EAGER: Sonifying Cyber-Security Cues for Internet Users Who Are Visually Impaired



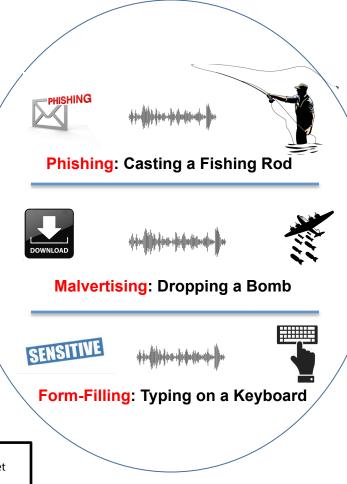
Challenge:

- Visual cues can be lost when screen readers translate them to speech sounds
- The use of screen readers with Web browsers present contents via speech sounds and difficult to comprehend

Solution:

- Design appropriate and representative sounds to represent security warnings and cues
 - User-centric sonification

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Scientific Impact:

- Increase understanding of the security and privacy concerns of Internet users who are visually impaired
- Identify and built the most effective sonification of security and privacy information that needs to be conveyed to the users

Broader Impact:

- Help building a valuable assistive technology and tool for a big minority group of individuals who are visually impaired to help them navigate the Internet safely
- The technology can be adopted by big IT companies (e.g., Apple) for general Internet users