

Welcome to GDSC FST Cybersecurity

Cypersecurity Introduction!

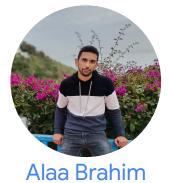


Google Developer Student Clubs



Meet The Cybersecurity Team!

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Malek Trabelsi



Adem Marzouki



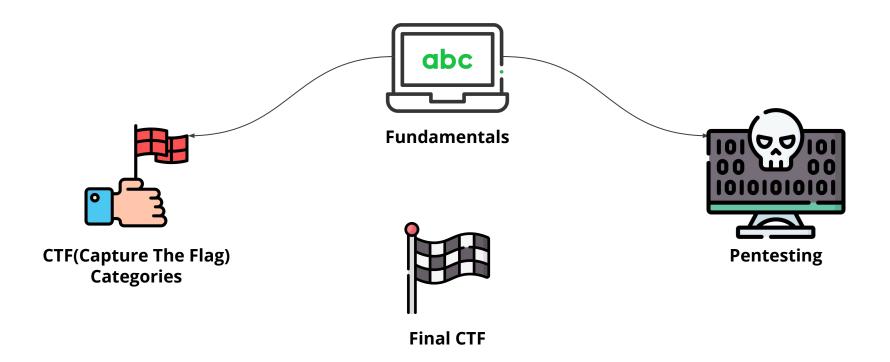
Oussema Hamouda



Take a look at our Plan!

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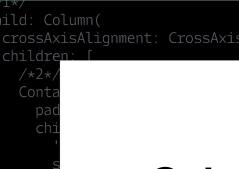
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What is Cybersecurity?

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Cybersecurity is the practice of protecting computer systems, networks, and data from theft, damage, or unauthorized access.



Big Tech Invests Big in Cybersecurity

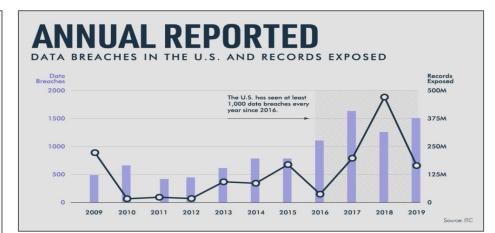
GAFAM spending on cybersecurity deals and funding per year*

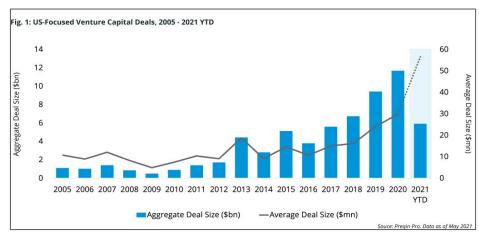


^{*} GAFAM = Google/Alphabet, Amazon, Facebook/Meta, Apple, Microsoft Source: CB Insights











Common Cybersecurity Terminology

- **Vulnerabilities**: Weaknesses that can be exploited.
- Attack: Unauthorized access or harm to systems.
- Malware: Software designed to harm or exploit.
- **Virus**: A type of malware that replicates.
- Encryption: Scrambling data in specific ways.
- Ransomware: Malware that encrypts data for a ransom.
- Brute Force Attack: Repeatedly trying passwords.

White, gray and black hat comparison



WHITE HAT

Considered the good guys because they follow the rules when it comes to hacking into systems without permission and obeying responsible disclosure laws



GRAY HAT

May have good intentions, but might not disclose flaws for immediate fixes

Prioritize their own perception of right versus wrong over what the law might say



BLACK HAT

Considered cybercriminals; they don't lose sleep over whether or not something is illegal or wrong

Exploit security flaws for personal or political gain-or for fun

Attack Types

Physical

Involves direct, unauthorized access to a computer system, network, or hardware.

Exp : Break-ins to server rooms

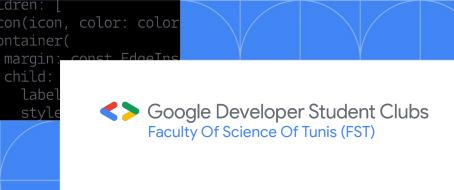


Remote

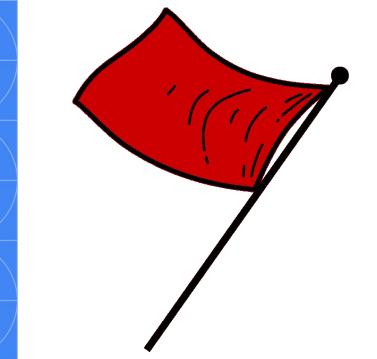
Occurs when hackers exploit vulnerabilities from a distance, often over the internet.

Exp : Phishing attacks through email or fake websites

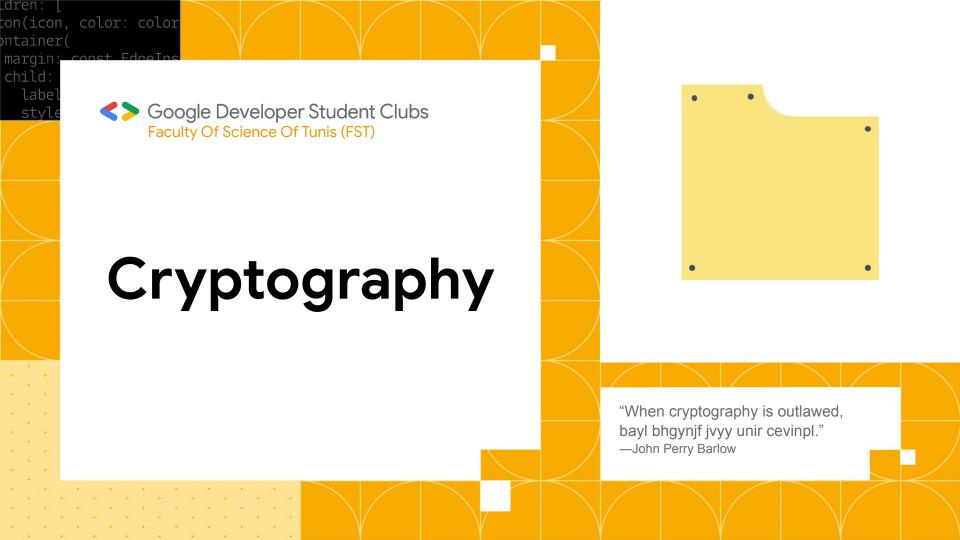


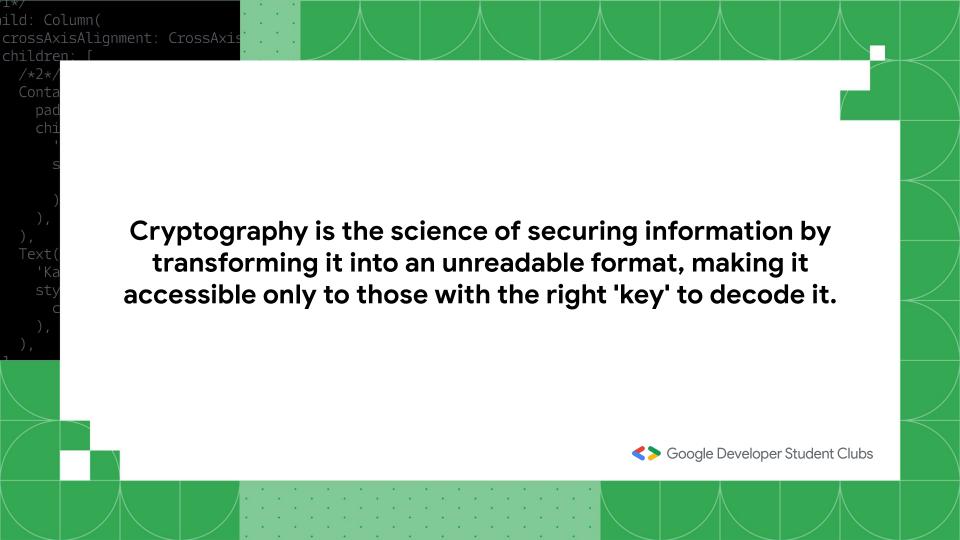


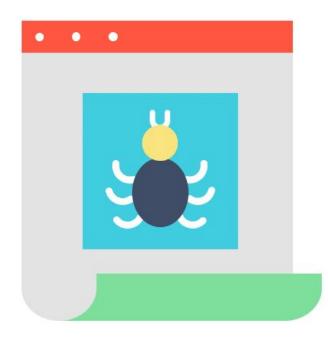
Capture The Flag (CTF)

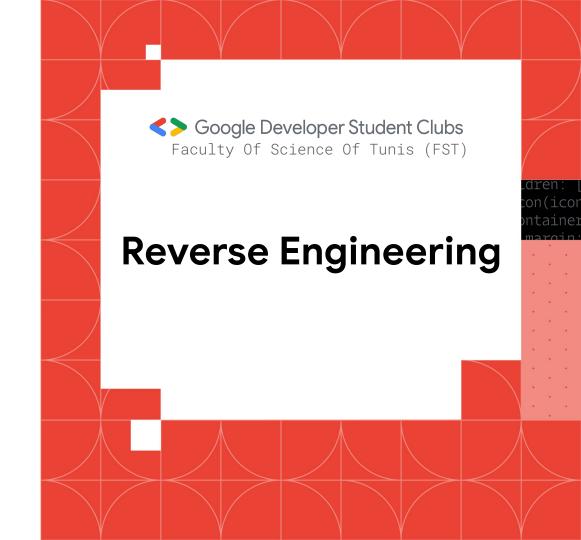


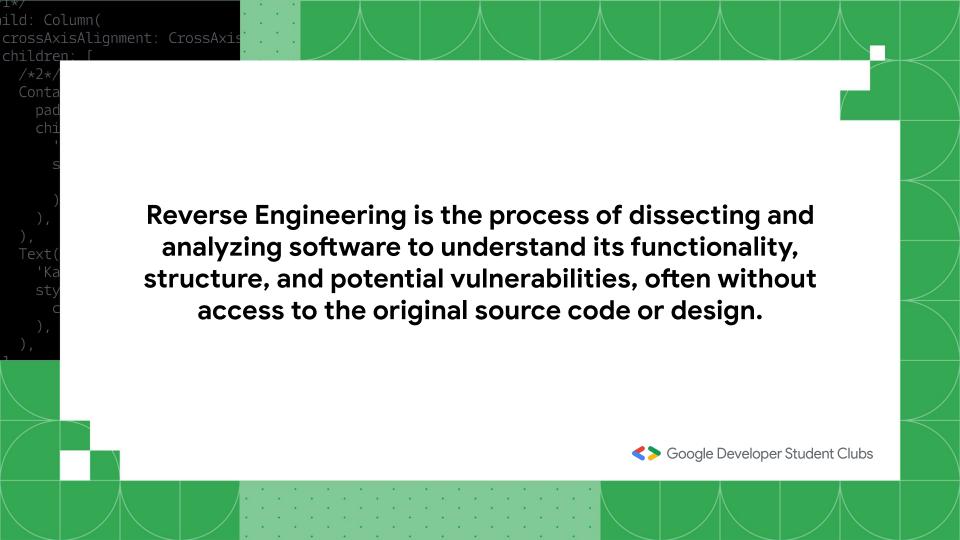
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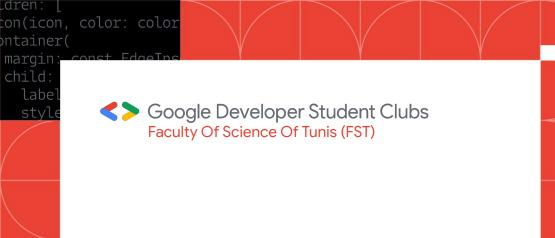








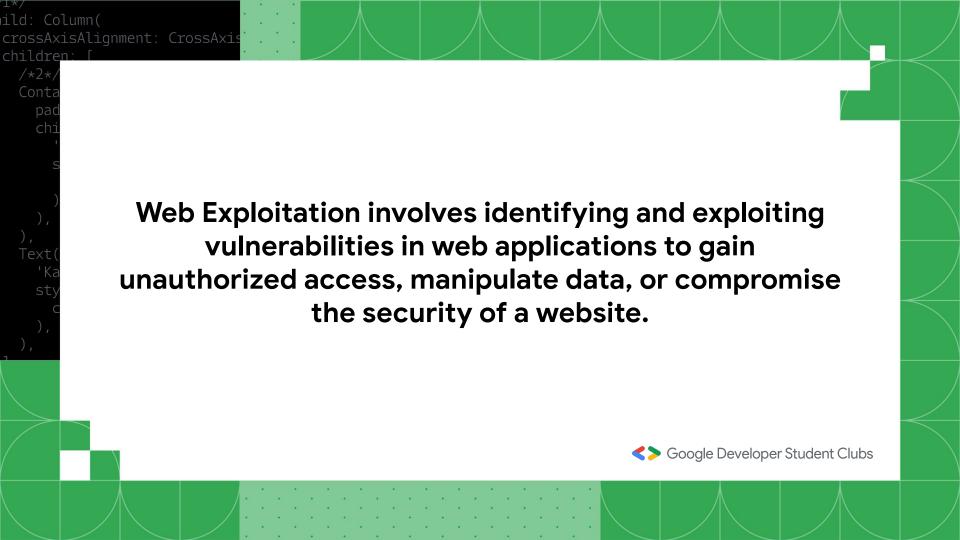








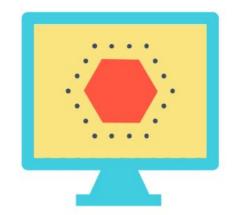
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Open Source Intelligence (OSINT)



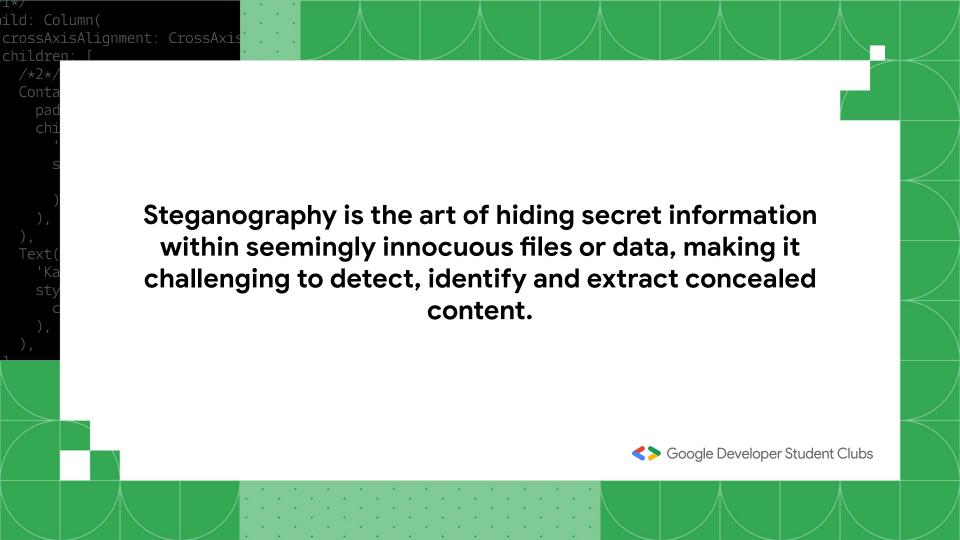
First GDSC FST Session Date?

ild: Column(children: Open Source Intelligence (OSINT) is the practice of gathering and analyzing publicly available information from various sources, such as social media, websites, and public records, to uncover insights and potentially identify security risks. **Songle Developer Student Clubs**



Steganography

https://alaabrahim.github.io/gdsc-c yber-intro-web/logo.png









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Quiz Time!



https://quizizz.com/join?gc=1 99168



Thank you Very much!



