

URL: (Uniform Resource Locator), a reference to a web resource that specifies its location on a computer network and a mechanism for retrieving it.

TCP/IP: (Transmission Control Protocol / Internet Protocol) the suite of communications protocols used to connect users to the internet

UDP: (User Datagram Protocol) an alternative protocol to TCP, used primarily for low-latency and loss-tolerating connections between applications on the internet.

Packet: Unit of data that is sent over a network

Port: an endpoint for communication, similar to a wireless channel

Protocol: a specific set of communication rules and instructions that each computer follows to transmit information

Bandwidth: the maximum data transfer rate of a network connection, it doesn't describe how fast the data is moving, but how much data can be flowed through a connection at one time.

Phishing: A method of stealing personal information by pretending to be a legitimate in order to "lure" people into putting in their username, password, or other sensitive data. Most commonly found in email scams.

SSL: (Secure Sockets Layer) a secure protocol that encrypts data that is transmitted so that no one else can "eavesdrop".

DDoS: (Distributed Denial-of-Service Attack) a an effort to make one or more computer systems unavailable, typically targeted at web servers. The most effective way to achieve this is by flooding a network with multiple request all at once, either pings or series of packets, to the point that server is unable to respond to legitimate request. This is usually achieved through the use of bots

Ransomware: a virus that prevents access to certain files by either encrypting or locking it with the threat that it will be erased if you don't pay a ransom fee. The best way to avoid this is to not download suspicious files.

The internet to society is everything due to how connected it is. Instead of being only limited to what's around you, the internet allows communication with anyone. In a way, it has elevated society by allowing everyone to have a common ground.

URLS:

Swift: <https://docs.swift.org/swift-book/LanguageGuide/TheBasics.html>

Social Media: <https://www.tiktok.com/> , <https://cprewritten.net/>

CTEC: <https://ctec.canyonsdistrict.org/>

Canyons: <http://www.canyonsdistrict.org/>

AP CSP: <https://apcentral.collegeboard.org/courses/ap-computer-science-principles/course>