**Difference between HTTP 1.1 and HTTP 2**

**HTTP 1.1 –** is the first standardized version of the Hypertext Transfer Protocol (HTTP), which is the protocol that enables communication on the World Wide Web.

* It was developed by Timothy Berners-Lee in 1989 and introduced in 1999.
* HTTP/1.1 is a textual format that exchanges information between a web server and a client computer.
* When a client visits a website, the web browser sends an HTTP request to the server in the form of a text-based message.
* HTTP/1.1 introduced several key features that improved performance and security, including: Pipelining, Chunked responses, Content negotiation, Caching, and Support for chunked encoding.
* However, HTTP/1.1 is still relatively slow compared to modern web applications. HTTP/2 works on a binary protocol and allows multiplexing, so one TCP connection can be used for multiple requests. HTTP/3 is designed to improve performance and reduce latency compared to HTTP/1 and HTTP/2.
* Http 1 has the following information
  + HOST:
  + USER-AGENT:
  + ACCEPT-LANGUAGE:
  + ACCEPT-ENCODING:
  + CONTENT-TYPE:
  + DATA:
  + LAST-MODIFIED:
  + SERVER:
  + VARY:

**HTTP 2-** Hypertext Transfer Protocol version 2 (HTTP/2) is a newer, faster, and more efficient version of the HTTP protocol.

* It's based on SPDY, Google's alternative to HTTP1.x. HTTP/2 aims to make applications faster, simpler, and more robust by improving many of the drawbacks of the first HTTP version.
* HTTP/2 offers a feature called weighted prioritization. This allows developers to decide which page resources will load first, every time.
* In HTTP/2, when a client makes a request for a webpage, the server sends several streams of data to the client at once, instead of sending one thing after another.
* HTTP/2 compression uses the HPACK compression format to compress HTTP header.
* HTTP/2's server push mechanism allows servers to send resources to clients and store them in the client's cache without waiting for the client to send a request. This mechanism is also known as "Cache Push".