**HTTP**

The **HyperText Transfer Protocol (HTTP)** is a data communications protocol and acts as the foundation of the World Wide Web. Invented by Tim Berners-Lee at CERN in the years 1989–1991. **HTTP functions as a request–response protocol in the client–server computing model.**

HTTP has four versions — HTTP/0.9, HTTP/1.0, HTTP/1.1, and HTTP/2.0. Today the version in common use is HTTP/1.1 and the future will be HTTP/2.0.

**HTTP 1.1**

The first usable version of HTTP was created in 1997. Because it went through several stages of development, this first version of HTTP was called HTTP/1.1. This version is still in use on the web.

**HTTP 2**

In 2015, a new version of HTTP called HTTP/2 was created. HTTP/2 solves several problems that the creators of HTTP/1.1 did not anticipate. In particular, HTTP/2 is much faster and more efficient than HTTP/1.1.

**DIFFERENCE**

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| **S. NO** | **CATEGORY** | **HTTP 1.1** | **HTTP 2** |
| 1 | Multiplexing | HTTP/1.1 loads resources one after the other, so if one resource cannot be loaded | HTTP/2 is able to use a single TCP connection to send multiple streams of data at once so that no one resource blocks any other resource. |
| 2 | Server push | server only serves content to a client device if the client asks for it. | HTTP/2 solves this problem by allowing a server to "push" content to a client before the client asks for it. The server also sends a message letting the client know what pushed content to expect. |
| 3 | Header compression | Small files load more quickly than large ones. To speed up web performance, HTTP/1.1 compress HTTP messages to make them smaller. | HTTP/2 uses a more advanced compression method called HPACK that eliminates redundant information in HTTP header packets. This eliminates a few bytes from every HTTP packet. |
| 4 | Prioritization | Prioritization refers to the order in which pieces of content are loaded. Prioritization affects a webpage's load time. | HTTP/2 offers a feature called weighted prioritization. This allows developers to decide which page resources will load first, every time. |