# HTTP – Hyper Text Transfer Protocol

The HTTP was designed for communication between web browsers and web servers. It helps to receive the request from client side and returns the response for that request.

## Basic differences between HTTP 1.1 and HTTP 2.0

### HTTP 1.1

* The client cannot able to get all the resources to render a website in a single TCP connection. The client had to break and remake the TCP connection with every new request, a costly affair in terms of both time and resources.
* It is a state less protocol. Every request is independent of the previous and the next request. Each request has to carry its own data like cookies, cache-control etc…

### HTTP 2.0

* The HTTP 2.0 establishes a single TCP connection between the two machines. Within this connection there are multiple streams of data. Each stream consists of multiple messages in the familiar request/response format.
* The HTTP 2.0 has PUSH frames feature which enables us to send mandatory resources in advance along with an HTTP response.
* HTTP 2.0 has feature called HPACK. It separates the header data from the requests reducing the HTTPS request size. It also enables us to reuse the header data which is repeated in every request.