HTTP: Hyper Text Transfer Protocol

**How HTTP works, specifically how browsers make requests to web servers using HTTP, and how Python can be used to interact with servers over the network?**

**Application Layer Protocols (like HTTP)**: HTTP is the protocol that governs how web browsers and servers communicate.

When you type a URL into your browser or click on a link, you’re essentially sending an HTTP GET request to a web server.

The server then sends back the requested document (e.g., HTML content) as a response.

In Python, sockets let you connect to a server and exchange data. Using **connect()** opens a doorway to a specific server and port (often port 80 for HTTP).

Once connected, you can send a request, like GET /page1.html HTTP/1.1, to retrieve a specific web page.

We call it a **Request Response Cycle.**