**Differences between HTTP/1 and HTTP/2**

**Multiplexing**:

HTTP/1.1 uses multiple connections for parallel requests, while HTTP/2 supports multiplexing, allowing multiple requests and responses to be sent over a single connection, improving efficiency and reducing latency.

**Header Compression**:

HTTP/1.1 sends headers as plaintext, leading to increased bandwidth usage. HTTP/2 introduces header compression, reducing overhead by compressing header fields, resulting in faster transmission.

**Server Push**:

HTTP/2 enables servers to push resources to the client proactively, optimizing page load times, whereas HTTP/1.1 relies on the client to request each resource individually.

**Binary Protocol**:

HTTP/1.1 uses a textual representation for messages, while HTTP/2 employs a binary protocol for better parsing, compression, and multiplexing.

**Stream Prioritization**:

HTTP/2 allows for stream prioritization, enabling clients to specify the importance of resources, which helps optimize page rendering and user experience.

These differences contribute to HTTP/2's improved performance, making it the preferred choice for modern web applications.