

Arbeitsauftrag:

1. Erläutern Sie den Unterschied zwischen der GET und der HEAD Methode.
2. Markieren Sie weitere "Befehle", die der Client an den Server schicken kann.
3. Betrachten Sie die folgende client-to-server HTTP GET Nachricht:
 - (a) Nennen Sie den Namen der Datei, die durch die GET Nachricht angefordert wird.
 - (b) Nennen Sie die HTTP-Version, die der Client benutzt.
 - (c) Wahr oder falsch: Der Client akzeptiert html-Dateien.
 - (d) Wahr oder falsch: Der Client akzeptiert jpeg-Grafiken.
 - (e) Wahr oder falsch: Der Client akzeptiert die Sprache Deutsch.
 - (f) Erklären Sie die Bedeutung der folgenden Felder.
 - Host
 - IF-Modified-Since
 - User Agent

```
GET /kurose_ross_sandbox/interactive/quotation1.htm HTTP/1.1
Host: gaia.cs.umass.edu
Accept: text/plain, text/html, text/xml, image/png, image/gif, audio/vnf.wave,
audio/basic, video/mp4, video/wmv,
Accept-Language: en-us, en-gb;q=0.2, en;q=0.5, fr, fr-ch, zh, da, ar
If-Modified-Since: Tue, 13 Oct 2020 10:45:58 -0700
User Agent: Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/535.19 (KHTML, like
Gecko) Chrome/18.0.1025.162 Safari/535.19
```

Quelle: http://gaia.cs.umass.edu/kurose_ross/interactive/http-get.php

Auszug aus **RFC 2616: "Hypertext Transfer Protocol -- HTTP/1.1"**, 1999, 176 Pages

[3](#) Protocol Parameters

[3.1](#) HTTP Version

[...]

The version of an HTTP message is indicated by an HTTP-Version field in the first line of the message.

```
HTTP-Version    = "HTTP" "/" 1*DIGIT "." 1*DIGIT
```

[...]

[5.1.1](#) Method

The Method token indicates the method to be performed on the resource identified by the Request-URI. The method is case-sensitive.

```
Method          = "OPTIONS"           ; Section 9.2
                  | "GET"              ; Section 9.3
                  | "HEAD"             ; Section 9.4
                  | "POST"            ; Section 9.5
                  | "PUT"              ; Section 9.6
                  | "DELETE"          ; Section 9.7
                  | "TRACE"           ; Section 9.8
                  | "CONNECT"         ; Section 9.9
                  | extension-method
extension-method = token
```

[...]

[5.3](#) Request Header Fields

The request-header fields allow the client to pass additional

information about the request, and about the client itself, to the server. These fields act as request modifiers, with semantics equivalent to the parameters on a programming language method invocation.

```
request-header = Accept           ; Section 14.1
                  | Accept-Charset ; Section 14.2
                  | Accept-Encoding ; Section 14.3
                  | Accept-Language ; Section 14.4
                  | Authorization ; Section 14.8
                  | Expect        ; Section 14.20
                  | From          ; Section 14.22
                  | Host          ; Section 14.23
                  | If-Match      ; Section 14.24
                  | If-Modified-Since ; Section 14.25
                  | If-None-Match  ; Section 14.26
                  | If-Range      ; Section 14.27
                  | If-Unmodified-Since ; Section 14.28
                  | Max-Forwards  ; Section 14.31
                  | Proxy-Authorization ; Section 14.34
                  | Range        ; Section 14.35
                  | Referer      ; Section 14.36
                  | TE           ; Section 14.39
                  | User-Agent    ; Section 14.43
```

[...]

[9.3](#) GET

The GET method means retrieve whatever information (in the form of an entity) is identified by the Request-URI. [...]

[9.4](#) HEAD

The HEAD method is identical to GET except that the server MUST NOT return a message-body in the response. [...]

[14.23](#) Host

The Host request-header field specifies the Internet host and port number of the resource being requested, [...]

```
Host = "Host" ":" host [ ":" port ] ; Section 3.2.2
```

A "host" without any trailing port information implies the default port for the service requested (e.g., "80" for an HTTP URL). [...]

[14.25](#) If-Modified-Since

The If-Modified-Since request-header field is used with a method to make it conditional: if the requested variant has not been modified since the time specified in this field, an entity will not be returned from the server; instead, a 304 (not modified) response will be returned without any message-body. [...]

[14.43](#) User-Agent

The User-Agent request-header field contains information about the user agent originating the request. This is for statistical purposes, the tracing of protocol violations, and automated recognition of user agents for the sake of tailoring responses to avoid particular user agent limitations. [...]