I. The Basic HTTP GET/response interaction

1. Http 1.1

No.	Time	Source	Destination	Protocol	Length	Info
77	3.864524	10.0.0.11	128.119.245.12	HTTP	568	GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1
96	4.019861	128.119.245.12	10.0.0.11	HTTP	540	HTTP/1.1 200 OK (text/html)

2. French / English US GB

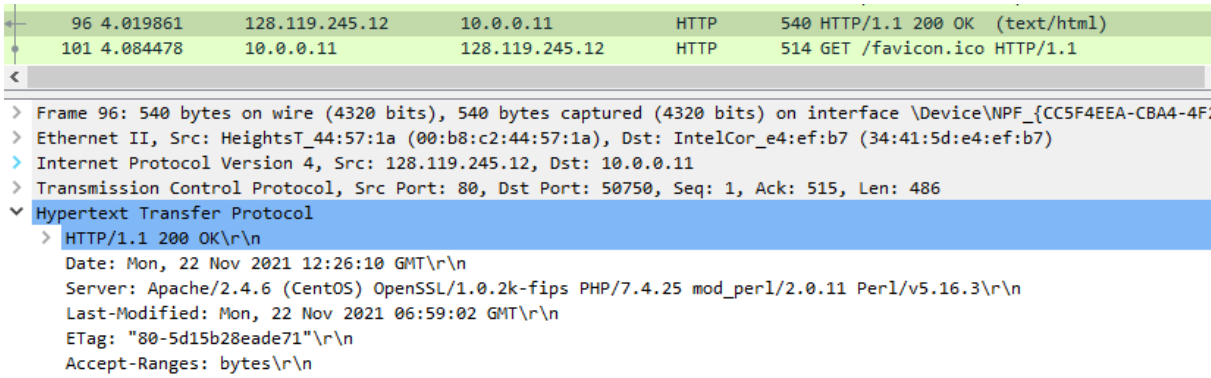
```
Accept-Encoding: gzip, deflate\r\n
Accept-Language: fr,fr-FR;q=0.9,en;q=0.8,en-GB;q=0.7,en-US;q=0.6\r\n
\r\n
```

3. My computer : 10.0.0.11
   Server : 128.119.245.12

4. 200 OK

```
Hypertext Transfer Protocol
  HTTP/1.1 200 OK\r\n
```

5. Last-Modified: Mon, 22 Nov 2021 06:59:02 GMT\r\n



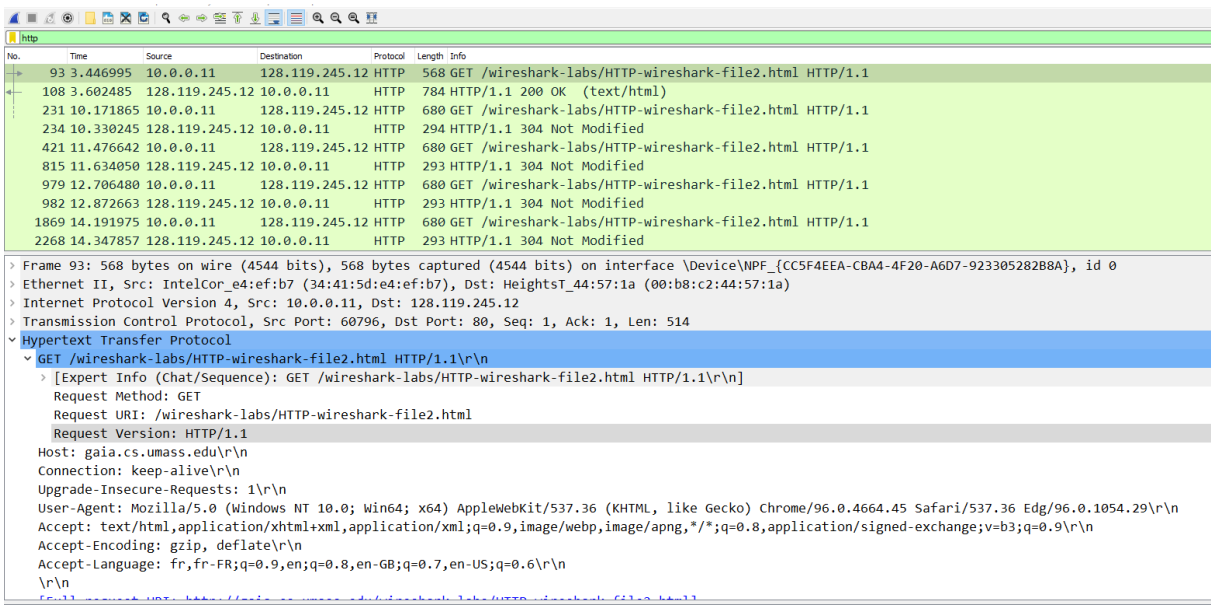
6. [Content length: 128]

```
Content-Length: 128\r\n
    [Content length: 128]
Keep-Alive: timeout=5, max=100\r\n
Connection: Keep-Alive\r\n
```

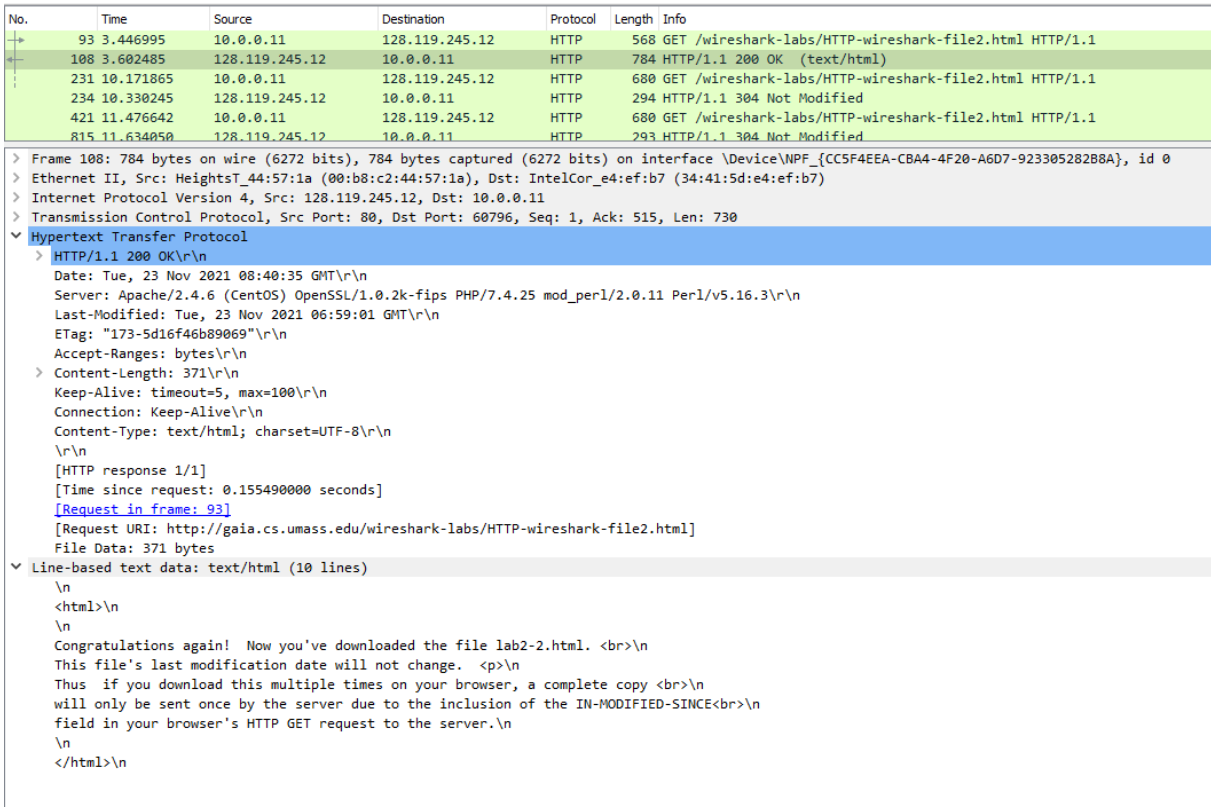
7. .

II. The HTTP CONDITIONAL GET/response interaction

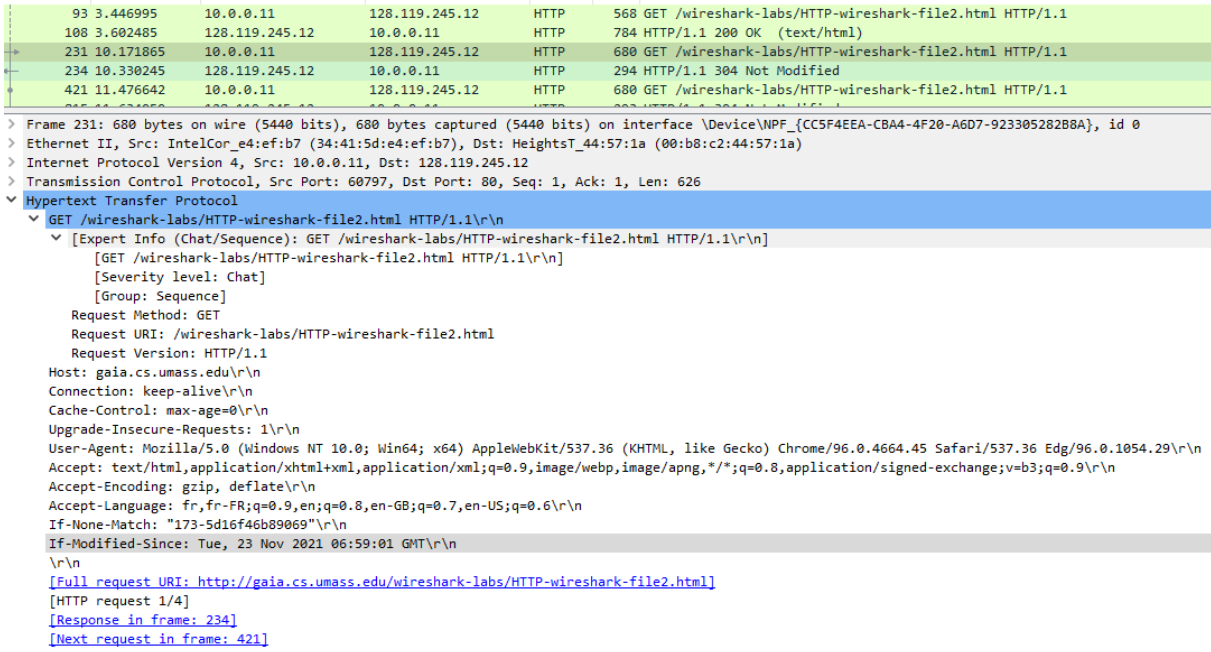
8. No there is no “IF-MODIFIED-SINCE” line in the HTTP GET.



9. Yes, the server explicitly returns the contents of the file.
We can see the content into the line-based text data part where we can see all the html code that was display on my web browser.
We also can see that the http response is 1/1 so we can be sure that we didn’t miss anything.



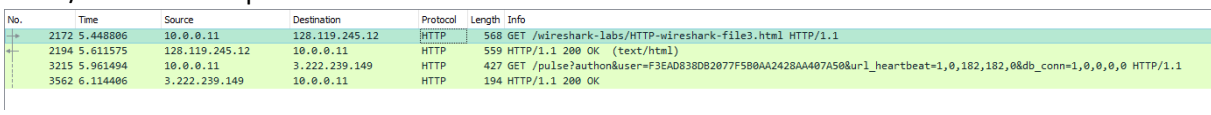
10. Yes , there is a line “IF-MODIFIED-SINCE:”.
    It shaw the date the last time i ask for those web page, if the content was modified after this , we need to download it again and not to use what we have in the cache.



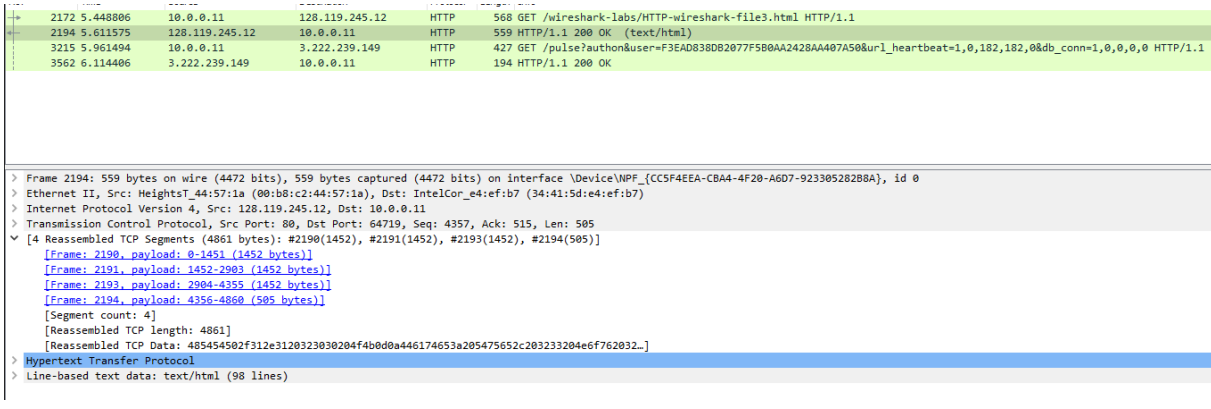
11. HTTP/1.1 304 Not Modified\r\n
    The server didn’t return the content he return the information that the content didn’t get modified so the web browser will used what he have on his cache that is exactly the same content instead of asking it again.

III. Retrieving Long Documents

12. The browser send 2 GET messages.
    2172 / 3215 are the packet numbers

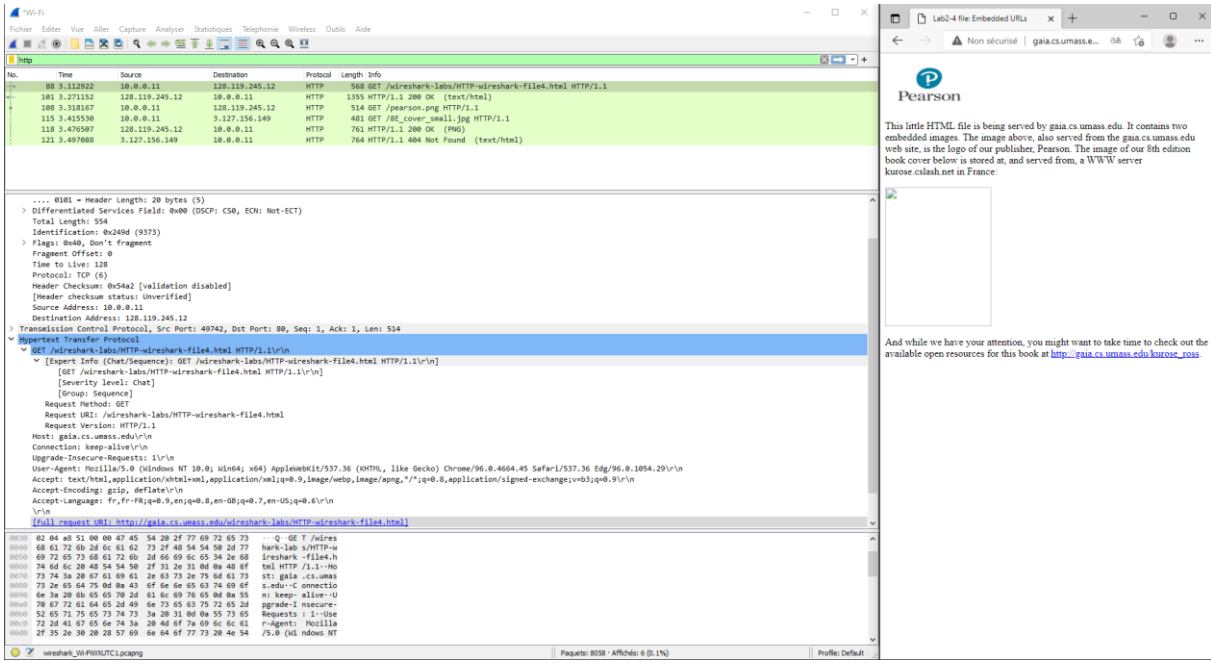


13. The number of the packet is 2194
14. 200 OK
15. There is 4 data containing TCP segemets



IV. HTML Documents with Embedded Objects

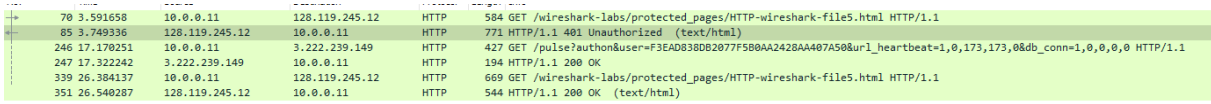
16. The browser send 3 http GET request messages.
    The frist one to 128.119.245.12 : [Full request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file4.html]
    The second to 128.119.245.12 : [Full request URI: http://gaia.cs.umass.edu/pearson.png]
    The third one to 3.127.156.149: [Full request URI: http://kurose.cslash.net/8E_cover_small.jpg]



17. The browser download the images in serially. We can see different request at different time, each request get response before another request was send. We request and responses images one by one.

V. HTTP Authentication

18. [HTTP/1.1 401 Unauthorized\r\n]



19. At the second time , The GET resquest added username and password to get authorize access