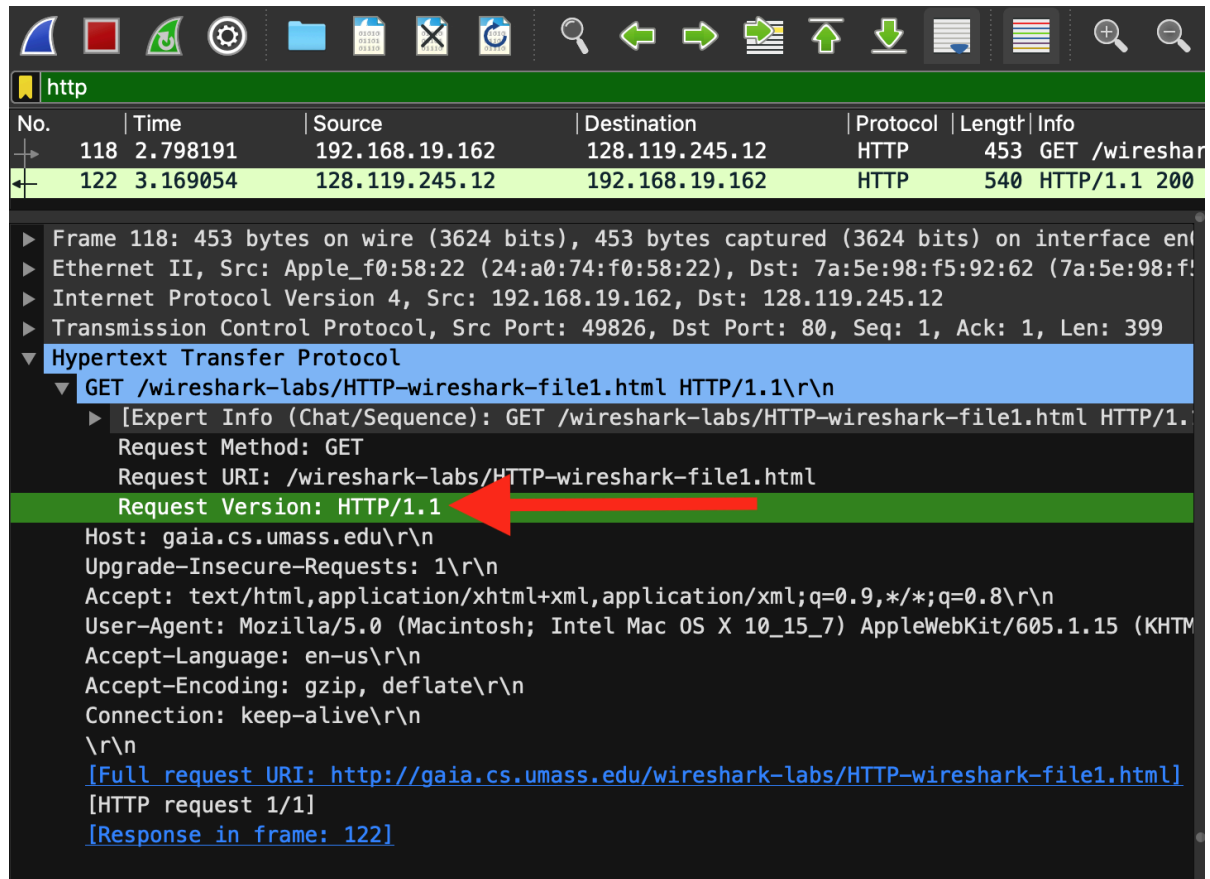


For

gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file1.html

1. Is your browser running HTTP version 1.0 or 1.1? What version of HTTP is the server running?

Browser is running HTTP version 1.1.



The server is running HTTP version 1.1

http					
No.	Time	Source	Destination	Protocol	Length
118	2.798191	192.168.19.162	128.119.245.12	HTTP	453
122	3.169054	128.119.245.12	192.168.19.162	HTTP	540

▶ Frame 122: 540 bytes on wire (4320 bits), 540 bytes captured (4320 bits) on
 ▶ Ethernet II, Src: 7a:5e:98:f5:92:62 (7a:5e:98:f5:92:62), Dst: Apple_f0:58:2
 ▶ Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.19.162
 ▶ Transmission Control Protocol, Src Port: 80, Dst Port: 49826, Seq: 1, Ack:

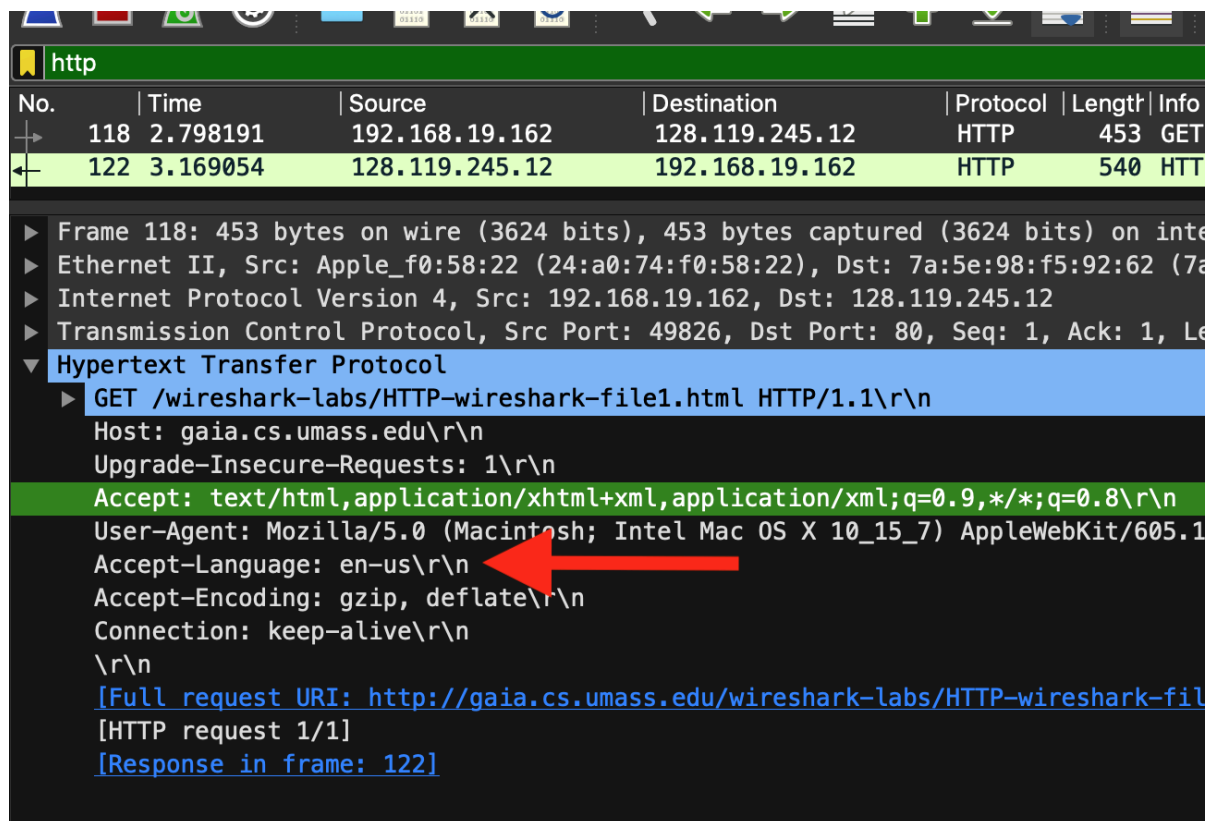
▼ Hypertext Transfer Protocol

▼ HTTP/1.1 200 OK\r\n
 ▶ [Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n]

Response Version: HTTP/1.1
 Status Code: 200
 [Status Code Description: OK]
 Response Phrase: OK
 Date: Thu, 08 Feb 2024 09:55:38 GMT\r\n
 Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/7.4.33 mod_perl/2.0
 Last-Modified: Thu, 08 Feb 2024 06:59:01 GMT\r\n

2. What languages (if any) does your browser indicate that it can accept to the server? In the captured session, what other information (if any) does the browser provide the server with regarding the user/browser?

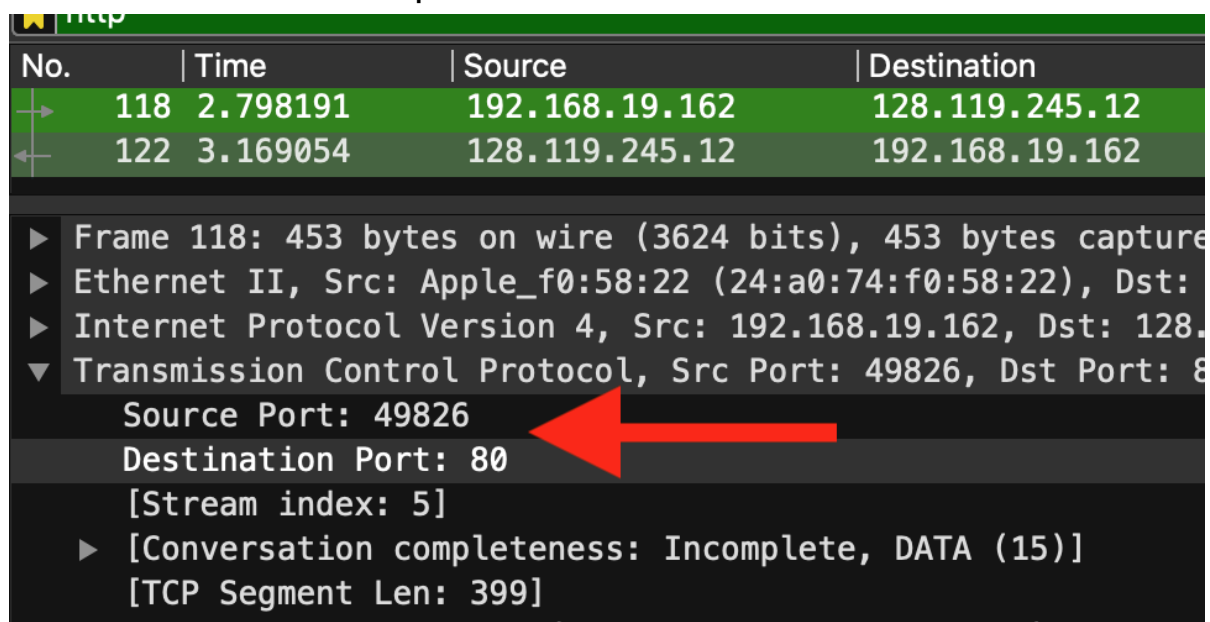
It can accept US-english. It also shows my browser, its version and my operating system and other information related to my device.



3. What is the IP address and port number of your computer? Of the server?

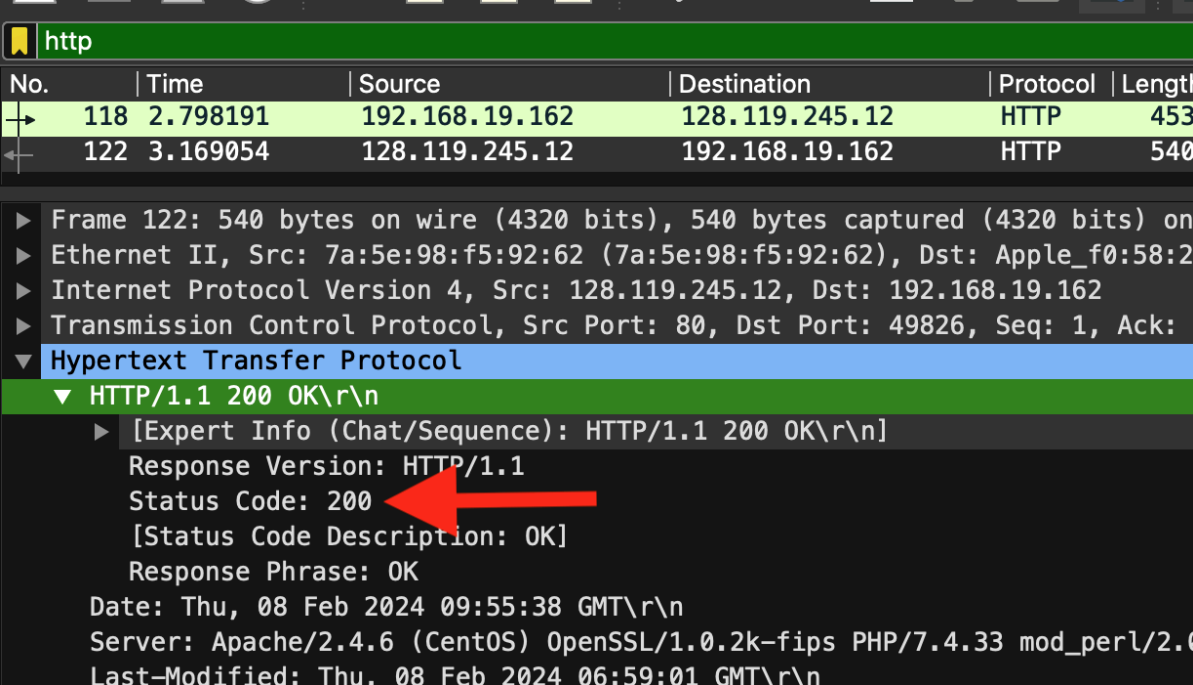
My IP address and port: 192.168.19.162:49826

Server IP address and port: 128.119.245.12:80



4. What is the status code returned from the server to your browser?

The status code returned was 200.



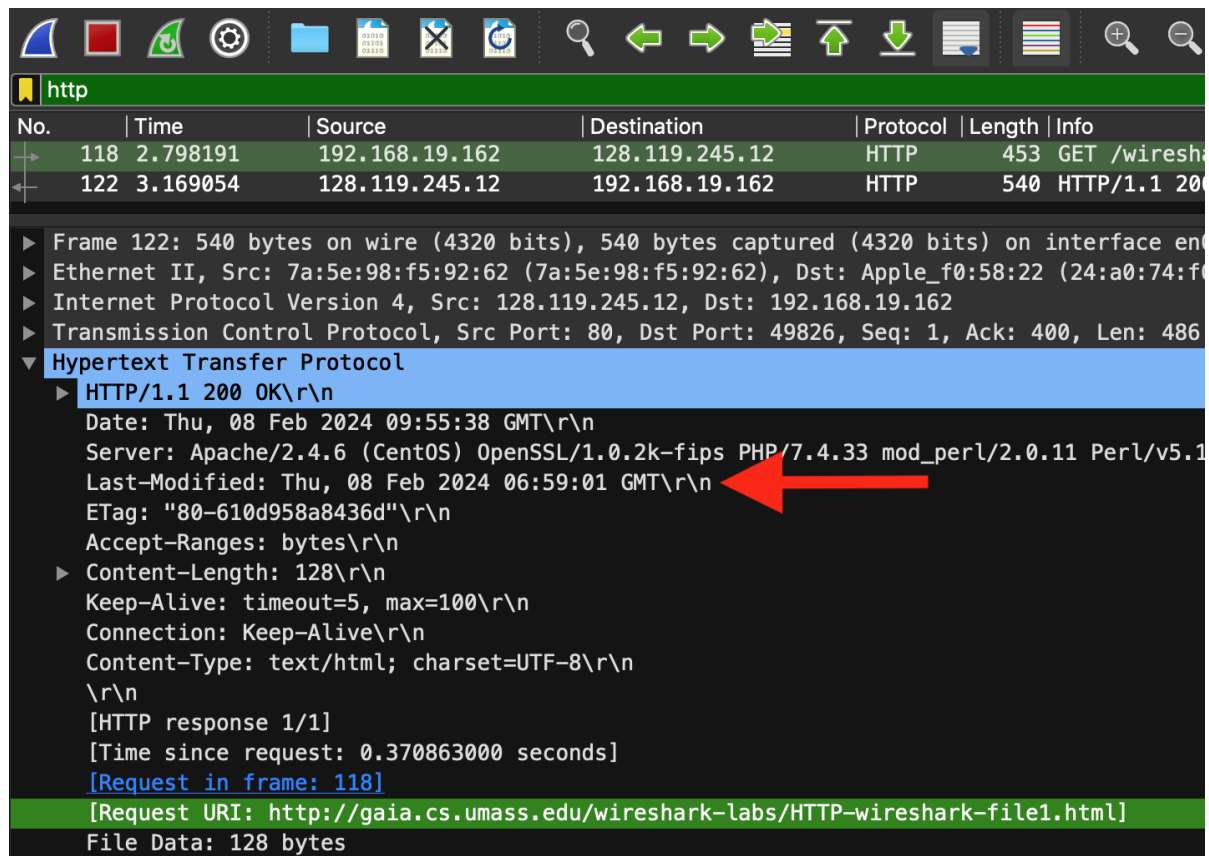
The image shows a Wireshark packet capture of an HTTP transaction. The packet list at the top shows two packets: packet 118 (request) and packet 122 (response). Packet 122 is selected, and its details pane is expanded to show the Hypertext Transfer Protocol section. The status code is 200, which is highlighted by a red arrow.

No.	Time	Source	Destination	Protocol	Length
118	2.798191	192.168.19.162	128.119.245.12	HTTP	453
122	3.169054	128.119.245.12	192.168.19.162	HTTP	540

Frame 122: 540 bytes on wire (4320 bits), 540 bytes captured (4320 bits) on
Ethernet II, Src: 7a:5e:98:f5:92:62 (7a:5e:98:f5:92:62), Dst: Apple_f0:58:2
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.19.162
Transmission Control Protocol, Src Port: 80, Dst Port: 49826, Seq: 1, Ack: .
Hypertext Transfer Protocol
HTTP/1.1 200 OK\r\n
[Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n]
Response Version: HTTP/1.1
Status Code: 200
[Status Code Description: OK]
Response Phrase: OK
Date: Thu, 08 Feb 2024 09:55:38 GMT\r\nServer: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/7.4.33 mod_perl/2.0
Last-Modified: Thu, 08 Feb 2024 06:59:01 GMT\r\n

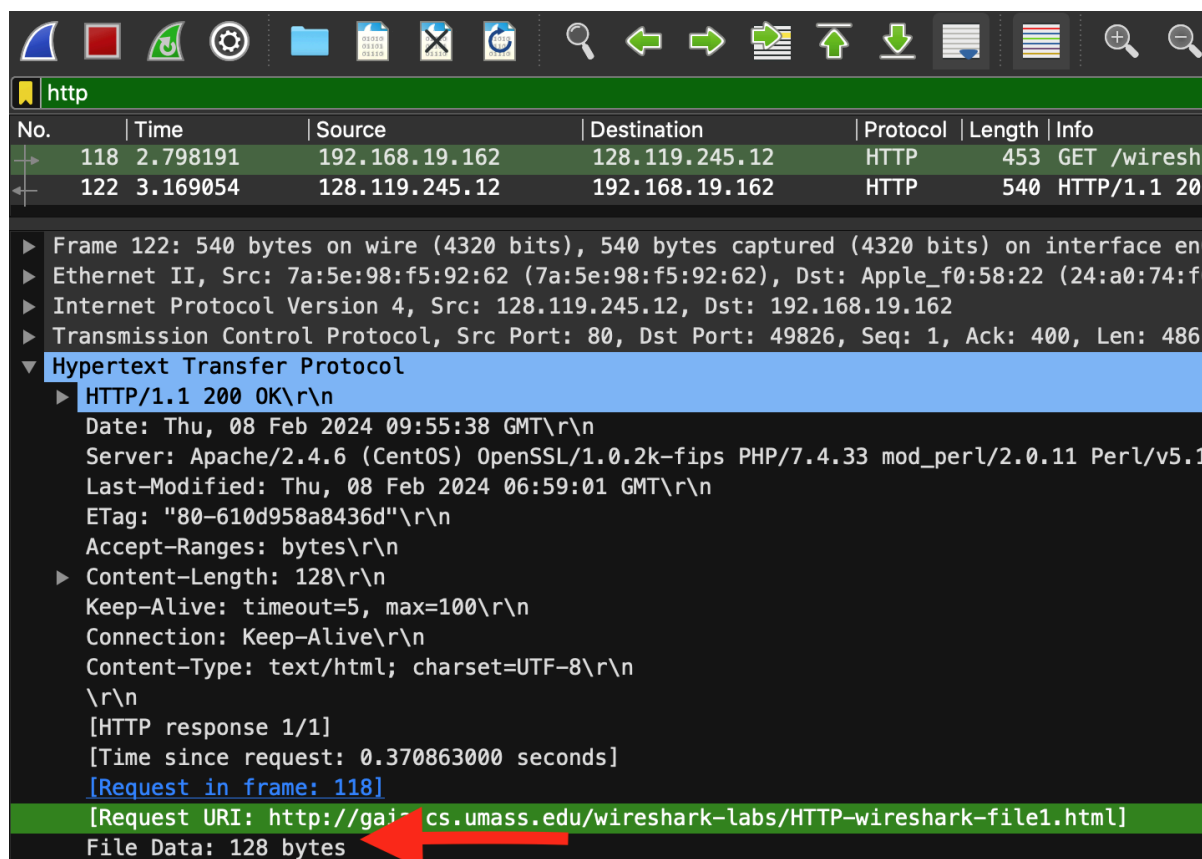
5. When was the HTML file that you are retrieving last modified at the Server?

It was at this time.



6. How many bytes of content are being returned to your browser?

It returned 128 bytes of data.



For <http://coolgrandastoundingpeace.neverssl.com/online/>

1. Is your browser running HTTP version 1.0 or 1.1? What version of HTTP is the server running?

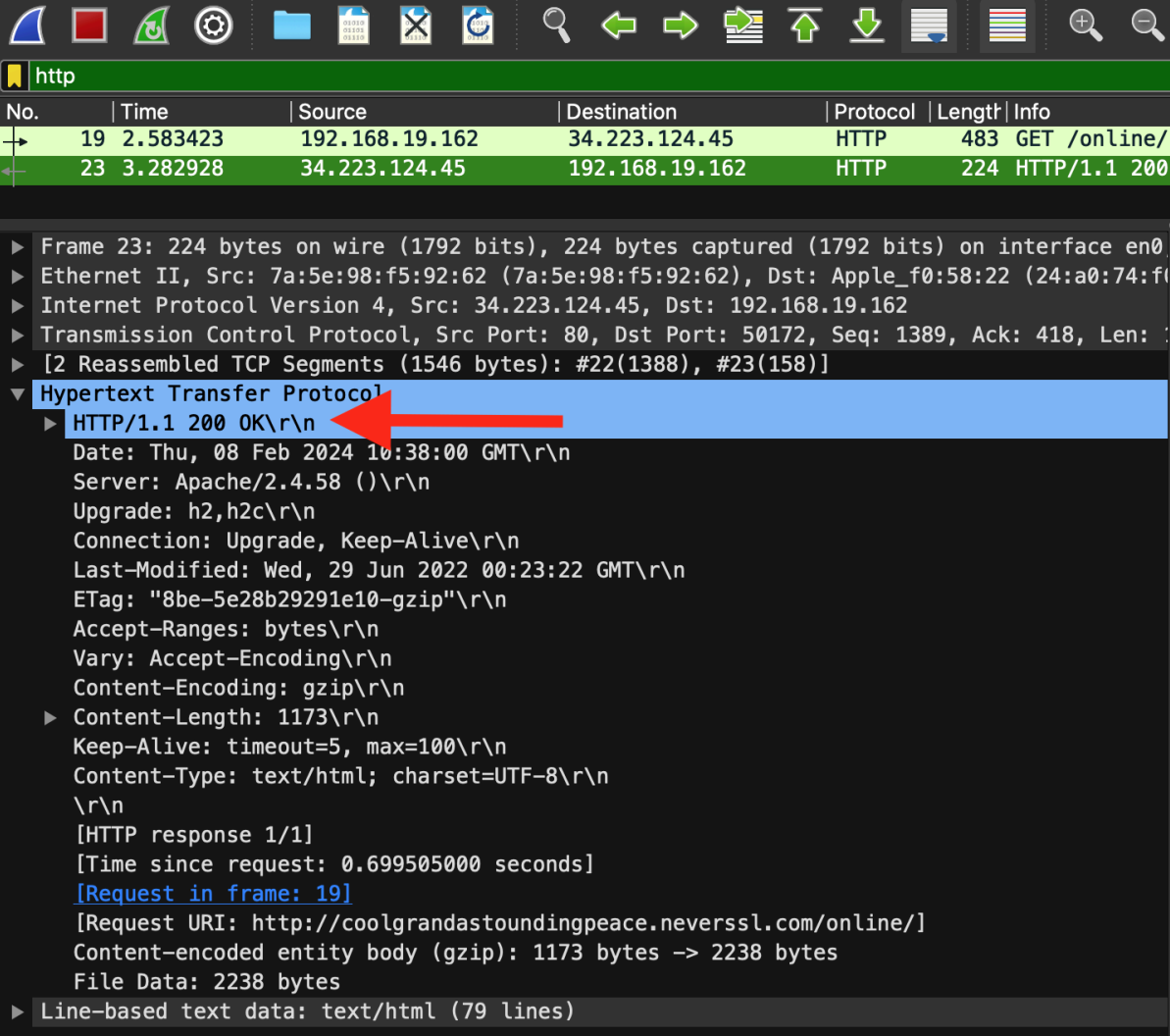
Browser is running HTTP version 1.1.

The image shows a Wireshark packet capture window. At the top, a packet list table is visible. Below it, the details pane for the selected packet (No. 23) is shown, highlighting the Hypertext Transfer Protocol section. A red arrow points to the 'GET /online/' line in the details pane.

No.	Time	Source	Destination	Protocol	Length	Info
19	2.583423	192.168.19.162	34.223.124.45	HTTP	483	GET /online/
23	3.282928	34.223.124.45	192.168.19.162	HTTP	224	HTTP/1.1 200

Frame 19: 483 bytes on wire (3864 bits), 483 bytes captured (3864 bits) on interface en0
Ethernet II, Src: Apple_f0:58:22 (24:a0:74:f0:58:22), Dst: 7a:5e:98:f5:92:62 (7a:5e:98:f5:92:62)
Internet Protocol Version 4, Src: 192.168.19.162, Dst: 34.223.124.45
Transmission Control Protocol, Src Port: 50172, Dst Port: 80, Seq: 1, Ack: 1, Len: 417
Hypertext Transfer Protocol
GET /online/ HTTP/1.1\r\n
Host: coolgrandastoundingpeace.neverssl.com\r\n
Connection: keep-alive\r\n
Upgrade-Insecure-Requests: 1\r\n
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8\r\n
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/605.1.15 (KHTML, like Gecko) Chrome/87.0.4398.97 Safari/605.1.15\r\n
Referer: http://neverssl.com/\r\n
Accept-Language: en-us\r\n
Accept-Encoding: gzip, deflate\r\n
\r\n
[Full request URI: http://coolgrandastoundingpeace.neverssl.com/online/]
[HTTP request 1/1]
[Response in frame: 23]

The server is running HTTP version 1.1

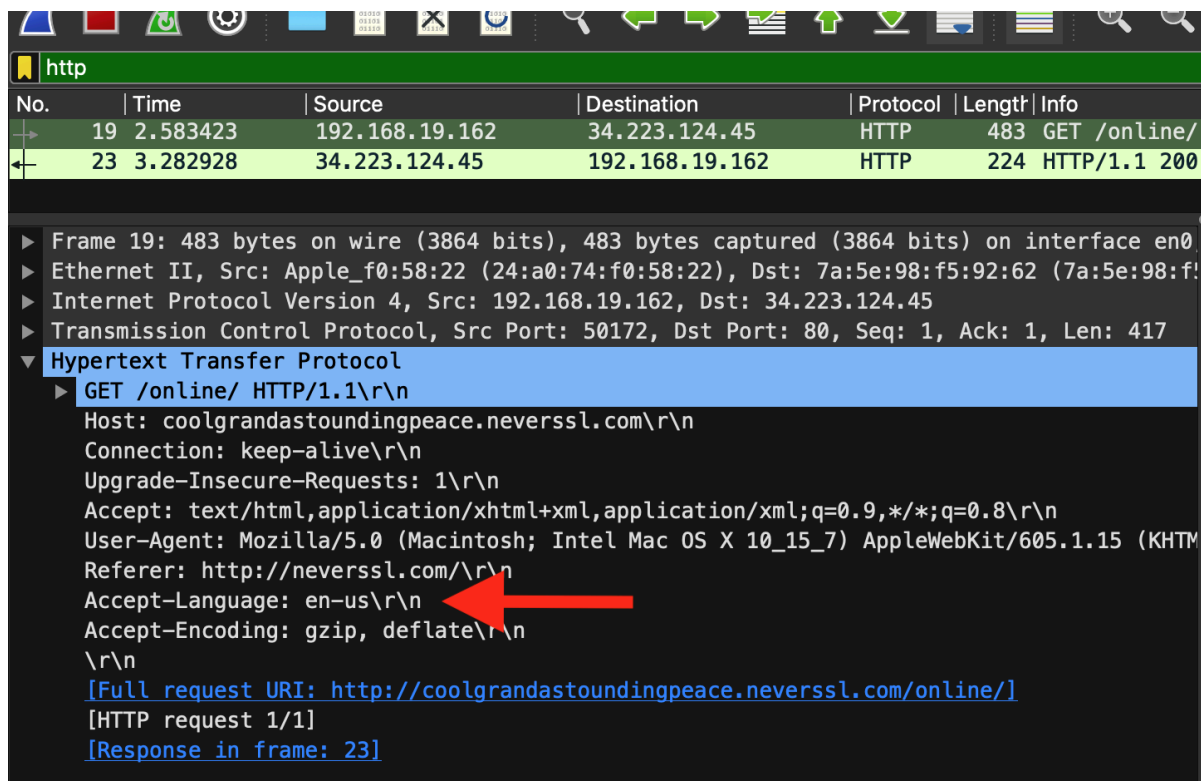


No.	Time	Source	Destination	Protocol	Length	Info
19	2.583423	192.168.19.162	34.223.124.45	HTTP	483	GET /online/
23	3.282928	34.223.124.45	192.168.19.162	HTTP	224	HTTP/1.1 200

▶ Frame 23: 224 bytes on wire (1792 bits), 224 bytes captured (1792 bits) on interface en0
 ▶ Ethernet II, Src: 7a:5e:98:f5:92:62 (7a:5e:98:f5:92:62), Dst: Apple_f0:58:22 (24:a0:74:f0:58:22)
 ▶ Internet Protocol Version 4, Src: 34.223.124.45, Dst: 192.168.19.162
 ▶ Transmission Control Protocol, Src Port: 80, Dst Port: 50172, Seq: 1389, Ack: 418, Len: 224
 ▶ [2 Reassembled TCP Segments (1546 bytes): #22(1388), #23(158)]
 ▼ Hypertext Transfer Protocol
 ▶ HTTP/1.1 200 OK\r\n
 Date: Thu, 08 Feb 2024 10:38:00 GMT\r\n
 Server: Apache/2.4.58 ()\r\n
 Upgrade: h2,h2c\r\n
 Connection: Upgrade, Keep-Alive\r\n
 Last-Modified: Wed, 29 Jun 2022 00:23:22 GMT\r\n
 ETag: "8be-5e28b29291e10-gzip"\r\n
 Accept-Ranges: bytes\r\n
 Vary: Accept-Encoding\r\n
 Content-Encoding: gzip\r\n
 Content-Length: 1173\r\n
 Keep-Alive: timeout=5, max=100\r\n
 Content-Type: text/html; charset=UTF-8\r\n
 \r\n
 [HTTP response 1/1]
 [Time since request: 0.699505000 seconds]
[\[Request in frame: 19\]](#)
 [Request URI: http://coolgrandastoundingpeace.neverssl.com/online/]
 Content-encoded entity body (gzip): 1173 bytes -> 2238 bytes
 File Data: 2238 bytes
 ▶ Line-based text data: text/html (79 lines)

2. What languages (if any) does your browser indicate that it can accept to the server? In the captured session, what other information (if any) does the browser provide the server with regarding the user/browser?

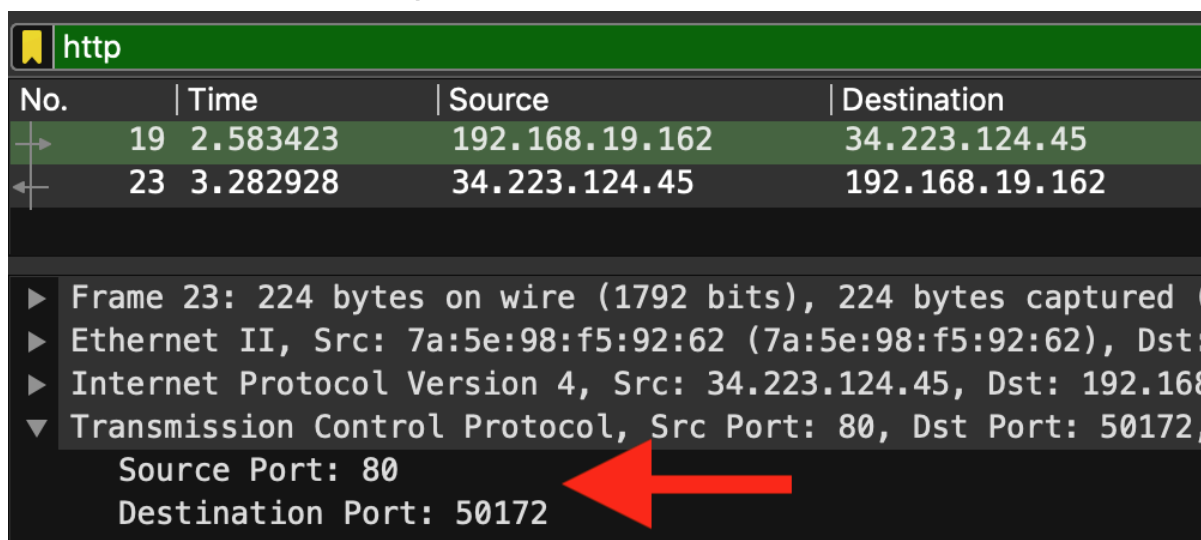
It can accept US-english. It also shows my browser, its version and my operating system and other information related to my device.



3. What is the IP address and port number of your computer? Of the server?

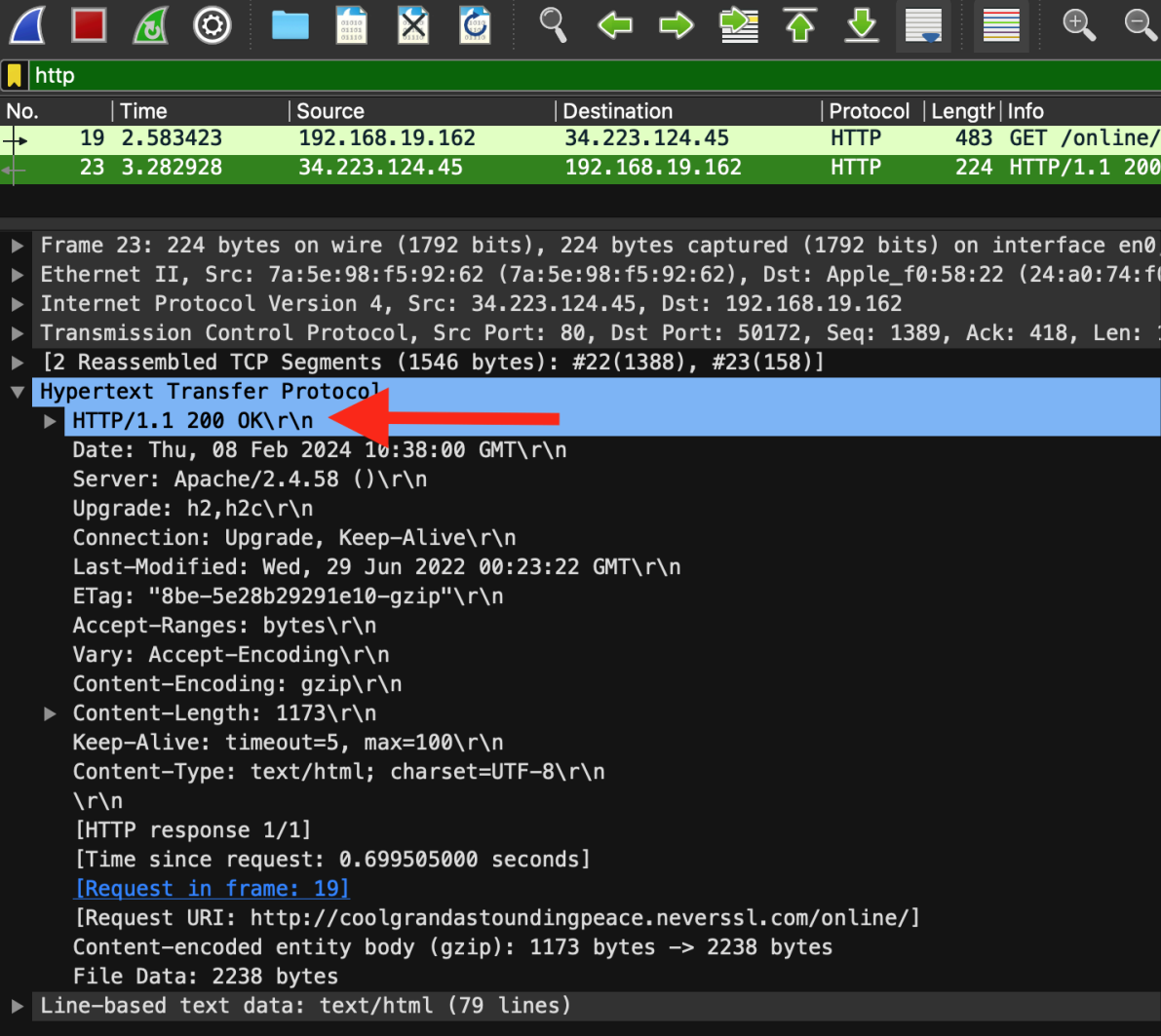
My IP address and port: 192.168.19.162:50172

Server IP address and port: 34.223.124.45:80



4. What is the status code returned from the server to your browser?

The status code returned was 200.



The image shows a Wireshark packet capture interface. At the top, there's a toolbar with various icons. Below it, a green bar indicates the filter is set to 'http'. A packet list table shows two packets:

No.	Time	Source	Destination	Protocol	Length	Info
19	2.583423	192.168.19.162	34.223.124.45	HTTP	483	GET /online/
23	3.282928	34.223.124.45	192.168.19.162	HTTP	224	HTTP/1.1 200

Below the table, the details pane for packet 23 is expanded, showing the 'Hypertext Transfer Protocol' section. A red arrow points to the status line: 'HTTP/1.1 200 OK\r\n'. The rest of the details pane shows various response headers and information.

```
Frame 23: 224 bytes on wire (1792 bits), 224 bytes captured (1792 bits) on interface en0
Ethernet II, Src: 7a:5e:98:f5:92:62 (7a:5e:98:f5:92:62), Dst: Apple_f0:58:22 (24:a0:74:f0)
Internet Protocol Version 4, Src: 34.223.124.45, Dst: 192.168.19.162
Transmission Control Protocol, Src Port: 80, Dst Port: 50172, Seq: 1389, Ack: 418, Len: 224
[2 Reassembled TCP Segments (1546 bytes): #22(1388), #23(158)]
Hypertext Transfer Protocol
  HTTP/1.1 200 OK\r\n
  Date: Thu, 08 Feb 2024 10:38:00 GMT\r\n
  Server: Apache/2.4.58 ()\r\n
  Upgrade: h2,h2c\r\n
  Connection: Upgrade, Keep-Alive\r\n
  Last-Modified: Wed, 29 Jun 2022 00:23:22 GMT\r\n
  ETag: "8be-5e28b29291e10-gzip"\r\n
  Accept-Ranges: bytes\r\n
  Vary: Accept-Encoding\r\n
  Content-Encoding: gzip\r\n
  Content-Length: 1173\r\n
  Keep-Alive: timeout=5, max=100\r\n
  Content-Type: text/html; charset=UTF-8\r\n
  \r\n
  [HTTP response 1/1]
  [Time since request: 0.699505000 seconds]
  [Request in frame: 19]
  [Request URI: http://coolgrandastoundingpeace.neverssl.com/online/]
  Content-encoded entity body (gzip): 1173 bytes -> 2238 bytes
  File Data: 2238 bytes
  Line-based text data: text/html (79 lines)
```

5. When was the HTML file that you are retrieving last modified at the Server?

It was at this time.

The image shows a Wireshark packet capture of an HTTP transaction. The packet list at the top shows two packets: packet 19 is a GET request from 192.168.19.162 to 34.223.124.45, and packet 23 is the corresponding HTTP 200 OK response from 34.223.124.45 to 192.168.19.162. The packet details pane for packet 23 is expanded, showing the Hypertext Transfer Protocol section. A red arrow points to the 'Last-Modified' header value: 'Wed, 29 Jun 2022 00:23:22 GMT'. Other visible headers include Date, Server, Upgrade, Connection, ETag, Accept-Ranges, Vary, Content-Encoding, Content-Length, Keep-Alive, and Content-Type. The packet bytes pane at the bottom shows the response is a text/html document of 79 lines.

No.	Time	Source	Destination	Protocol	Length	Info
19	2.583423	192.168.19.162	34.223.124.45	HTTP	483	GET /online/
23	3.282928	34.223.124.45	192.168.19.162	HTTP	224	HTTP/1.1 200

Frame 23: 224 bytes on wire (1792 bits), 224 bytes captured (1792 bits) on interface en0
Ethernet II, Src: 7a:5e:98:f5:92:62 (7a:5e:98:f5:92:62), Dst: Apple_f0:58:22 (24:a0:74:f0:58:22)
Internet Protocol Version 4, Src: 34.223.124.45, Dst: 192.168.19.162
Transmission Control Protocol, Src Port: 80, Dst Port: 50172, Seq: 1389, Ack: 418, Len: 224
[2 Reassembled TCP Segments (1546 bytes): #22(1388), #23(158)]
Hypertext Transfer Protocol
HTTP/1.1 200 OK\r\nDate: Thu, 08 Feb 2024 10:38:00 GMT\r\nServer: Apache/2.4.58 ()\r\nUpgrade: h2,h2c\r\nConnection: Upgrade, Keep-Alive\r\nLast-Modified: Wed, 29 Jun 2022 00:23:22 GMT\r\nETag: "8be-5e28b29291e10-gzip"\r\nAccept-Ranges: bytes\r\nVary: Accept-Encoding\r\nContent-Encoding: gzip\r\nContent-Length: 1173\r\nKeep-Alive: timeout=5, max=100\r\nContent-Type: text/html; charset=UTF-8\r\n\r\n[HTTP response 1/1]
[Time since request: 0.699505000 seconds]
[\[Request in frame: 19\]](#)
[Request URI: http://coolgrandastoundingpeace.neverssl.com/online/]
Content-encoded entity body (gzip): 1173 bytes -> 2238 bytes
File Data: 2238 bytes
Line-based text data: text/html (79 lines)

6. How many bytes of content are being returned to your browser?

It returned 2238 bytes of data.

http

No.	Time	Source	Destination	Protocol	Length	Info
19	2.583423	192.168.19.162	34.223.124.45	HTTP	483	GET /online/
23	3.282928	34.223.124.45	192.168.19.162	HTTP	224	HTTP/1.1 200

▶ Frame 23: 224 bytes on wire (1792 bits), 224 bytes captured (1792 bits) on interface en0

▶ Ethernet II, Src: 7a:5e:98:f5:92:62 (7a:5e:98:f5:92:62), Dst: Apple_f0:58:22 (24:a0:74:f0)

▶ Internet Protocol Version 4, Src: 34.223.124.45, Dst: 192.168.19.162

▶ Transmission Control Protocol, Src Port: 80, Dst Port: 50172, Seq: 1389, Ack: 418, Len: 224

▶ [2 Reassembled TCP Segments (1546 bytes): #22(1388), #23(158)]

▼ Hypertext Transfer Protocol

▶ HTTP/1.1 200 OK\r\n

Date: Thu, 08 Feb 2024 10:38:00 GMT\r\n

Server: Apache/2.4.58 ()\r\n

Upgrade: h2,h2c\r\n

Connection: Upgrade, Keep-Alive\r\n

Last-Modified: Wed, 29 Jun 2022 00:23:22 GMT\r\n

ETag: "8be-5e28b29291e10-gzip"\r\n

Accept-Ranges: bytes\r\n

Vary: Accept-Encoding\r\n

Content-Encoding: gzip\r\n

Content-Length: 1173\r\n

Keep-Alive: timeout=5, max=100\r\n

Content-Type: text/html; charset=UTF-8\r\n

\r\n

[HTTP response 1/1]

[Time since request: 0.699505000 seconds]

[\[Request in frame: 19\]](#)

[Request URI: http://coolgrandastoundingpeace.neverssl.com/online/]

Content-encoded entity body (gzip): 1173 bytes -> 2238 bytes

File Data: 2238 bytes

▶ Line-based text data: text/html (79 lines)