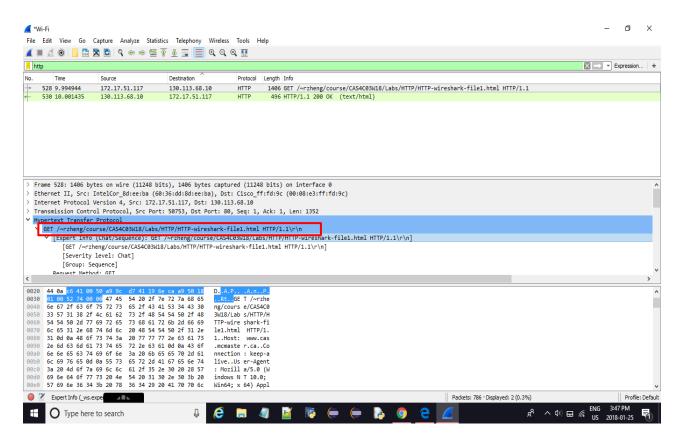
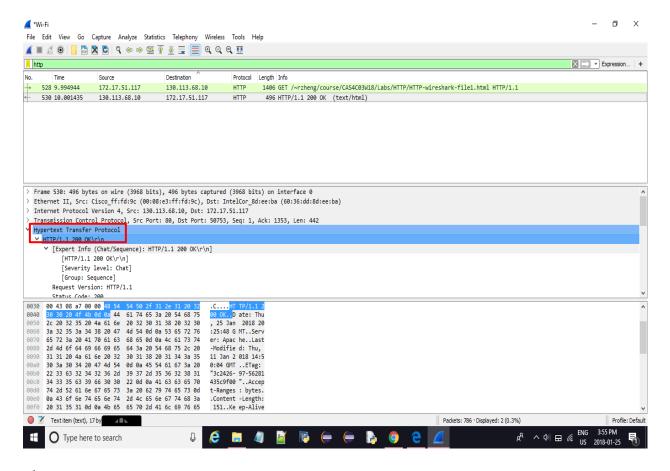
# Wireshark Lab 1

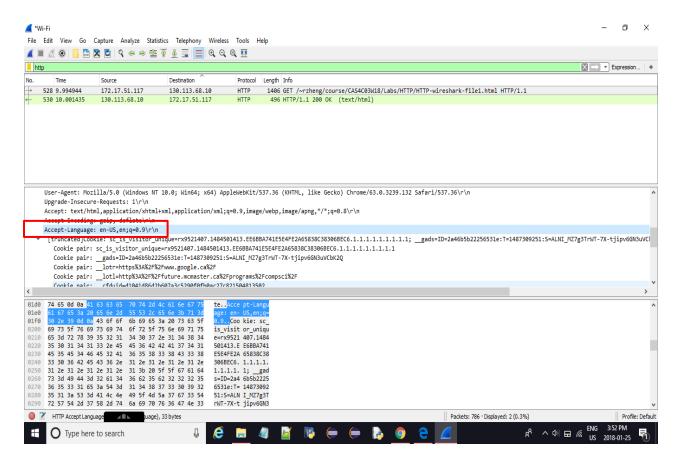
1.



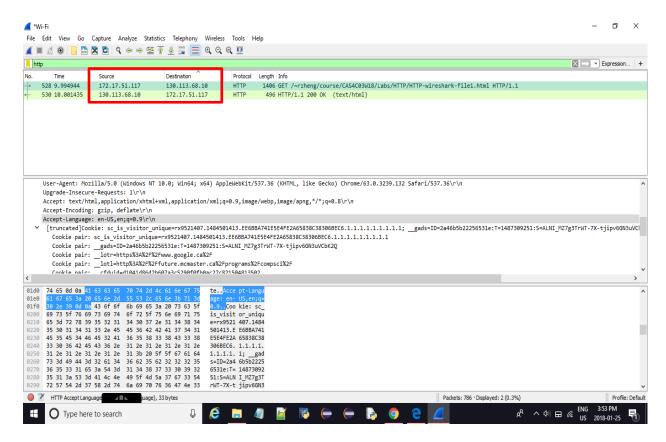
The browser is running HTTP version 1.1



The server is running HTTP version 1.1

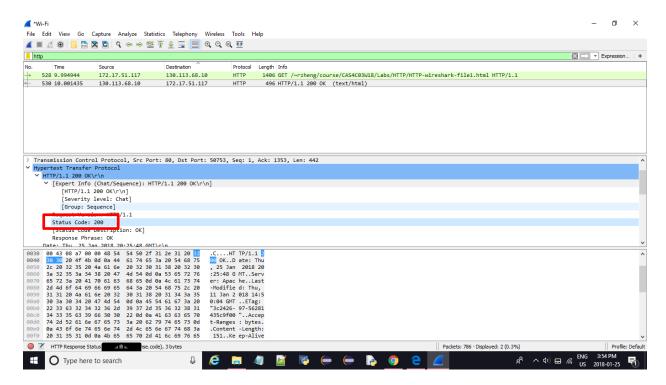


The language accepted: en-US, en;q=0.9\r\n

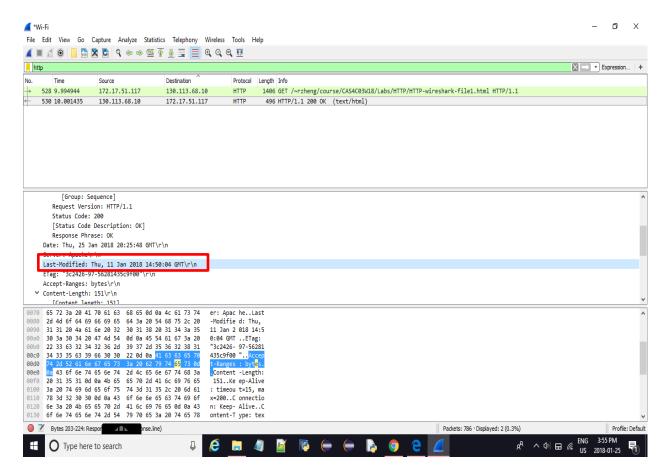


The IP address of my computer is 172.17.51.117

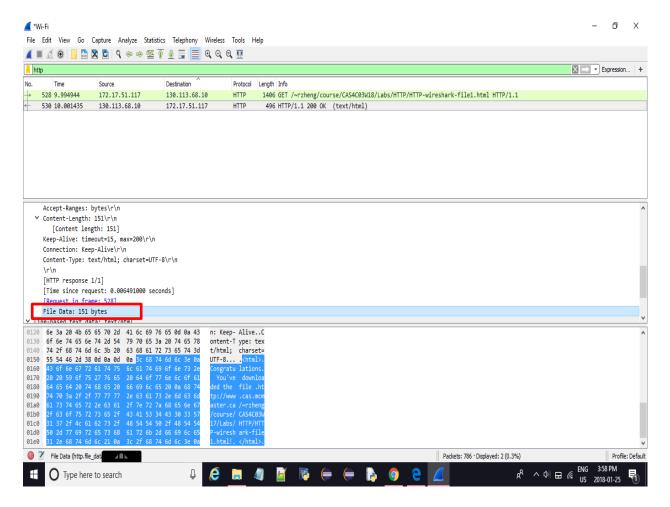
The IP address of www.cas.mcmaster.ca server is 130.113.68.10



Status code: 200



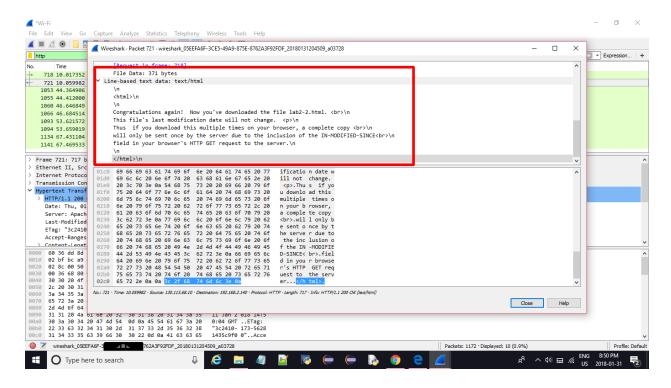
Last modified: Thu, 11 2018 14:50:04 GMT\r\n

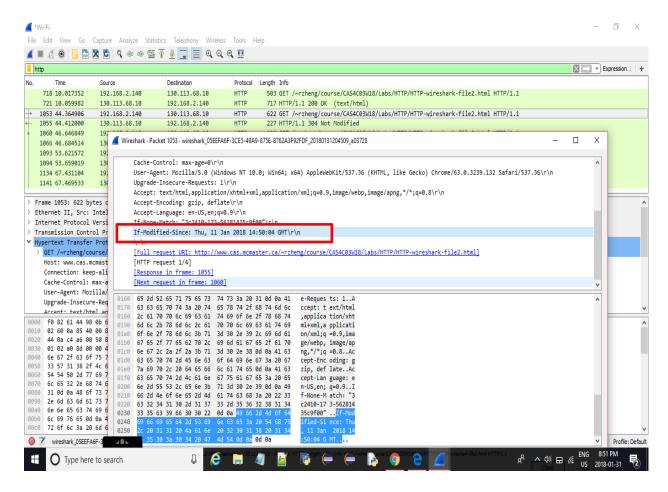


151 bytes

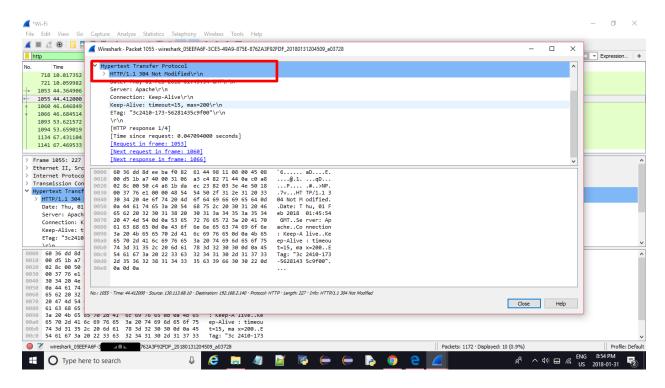
- 7. No, I do not see any headers within the data that are not displayed in the packet-listing window.
- 8. No, there is no IF-MODIFIED-SINCE in the first HTTP GET.

# Yes it did



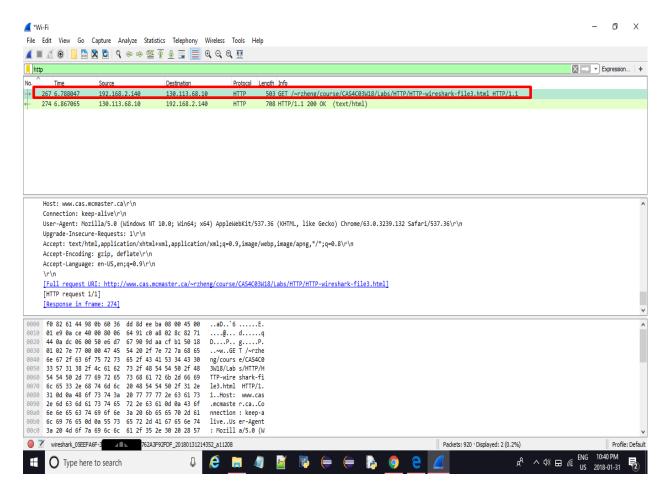


Yes, there is an If-Modified-Since in the second HTTP GET. The information follows are the date and time that was last accessed.

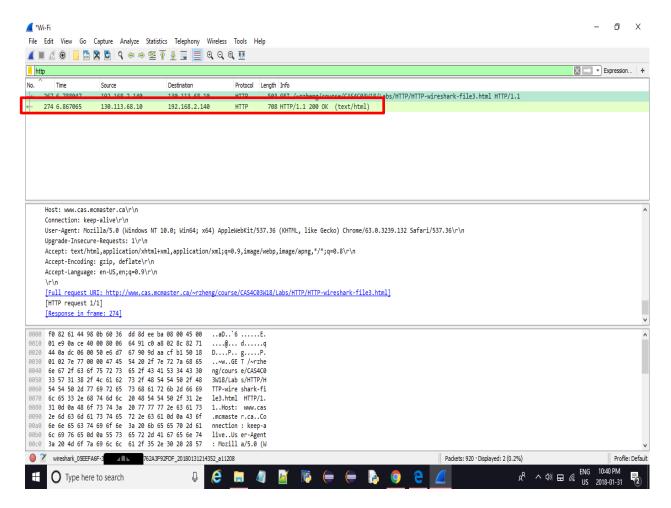


# The HTTP status code returned is: 304 Not Modified

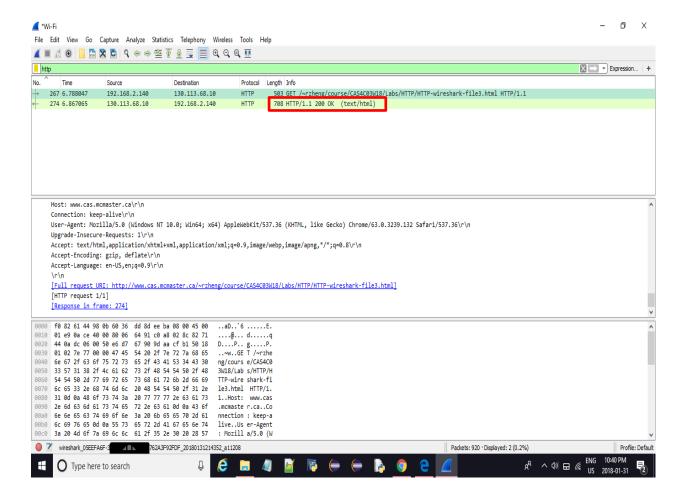
No the server did not return the contents of the file this time. Since we only refreshed the page, the browser just retrieved the contents from the memory. If the file was modified since last accessed, then it would return the contents.



The browser sent one HTTP GET message, the packet number that contains the GET message is 267.

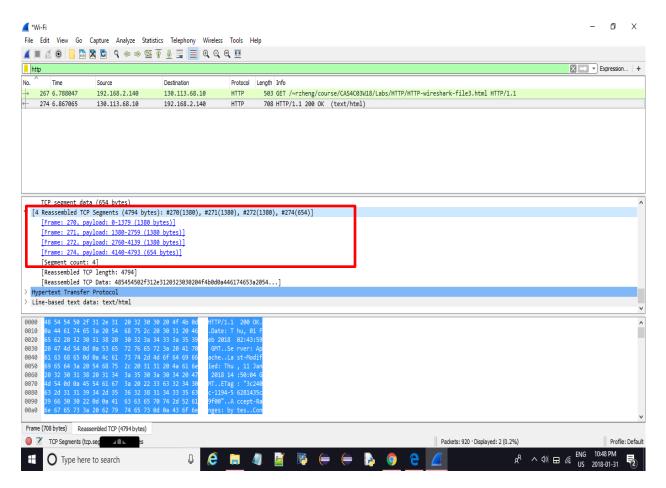


The packet number is 274, which contains the status code and phrase in response to HTTP GET request.

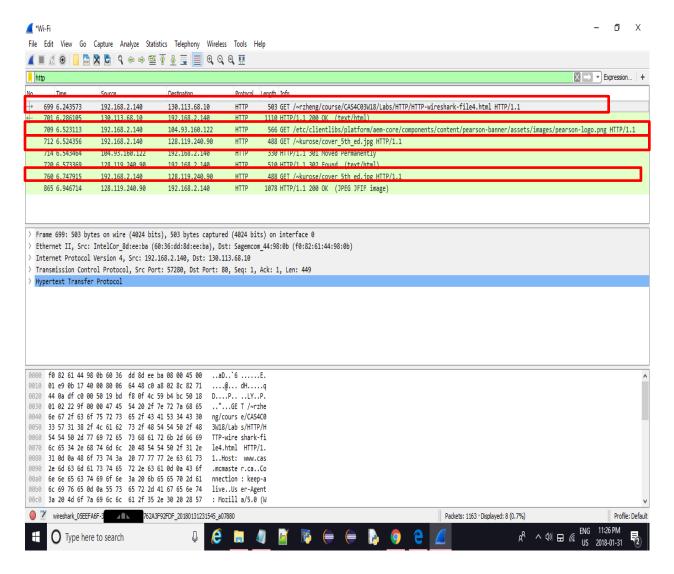


Status code: 200

Phrase: OK



As shown, 4 TCP segments were needed to carry the single HTTP response and the text of the Bill of Rights.



There are 4 HTTP GET request message. Packet 699 was send to get the initial page, packet 709 was sent to get the Pearson logo, packet 712 was sent to get the cover of the 5<sup>th</sup> edition Pearson book image, packet 760 was sent to get the cover of the 5<sup>th</sup> edition Pearson book image again.

Address sent to:

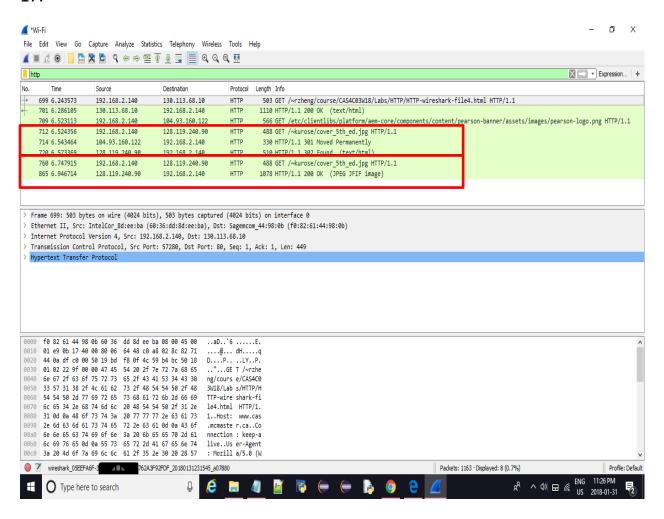
Initial page: 130.113.68.10

Pearson logo: 104.93.160.122

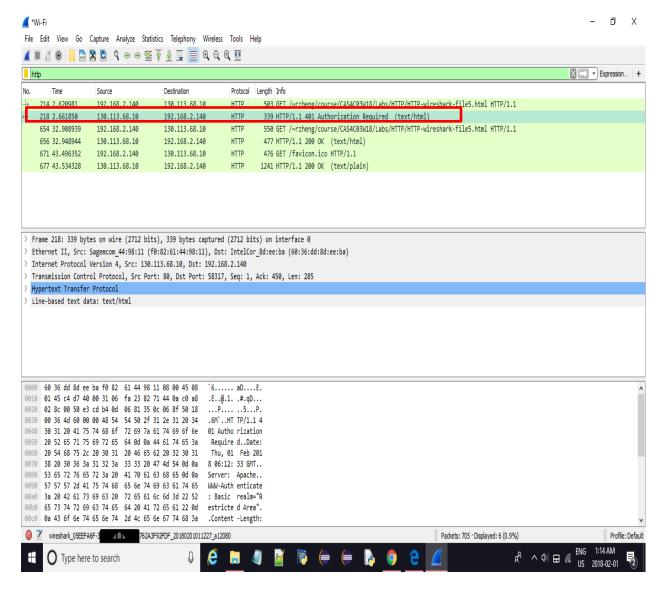
Pearson textbook cover: 128.119.240.90

Pearson textbook cover: 128.119.240.90

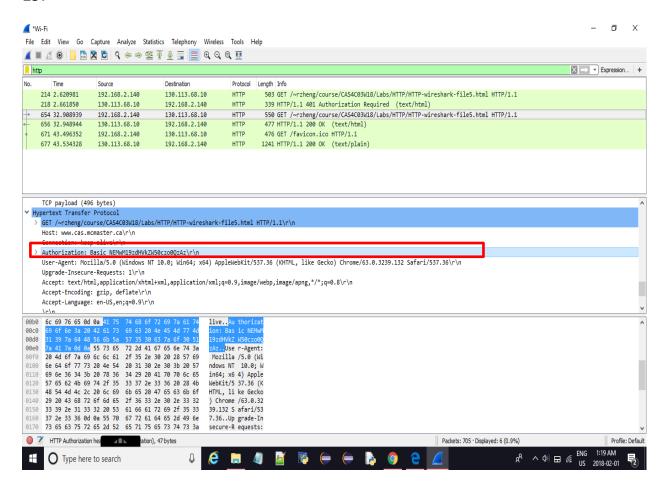
### 17.



The browser downloaded the two images in serially. The first image was requested (packet 712) and got a reply (packet 720) before the second image was requested (packet 760) by the browser.



The server's response: 401 Authorization required



The new field that is now included is the authorization field. This happened because we sent the username and password along with our request to the server to ask for the authorization of the page.