

I Can Hear You 🗣️

After understanding how a HTTP request looks like, let's take a look at responses!

Goal: Analyze the HTTP Response

After the server gets a HTTP request, it will send back a HTTP response. This response would include:

- A status line indicating the request's outcome
- Headers providing metadata about the response,
- Optionally, a body containing the requested resource.

Here is an example of a HTTP response based on what was analyzed above:

HTTP 200 Response OK Example:

```
HTTP/1.1 200 OK
Content-Type: text/html
Server: Apache/2.4.41
Content-Length: 1256

<!doctype html>
<html>
...
</html>
```

Breakdown of the Response Body

- The response body is the actual content of the requested resource.
- In this case, it is an HTML document. Your web browser knows how to read it and display a pretty version of the website, based on it.

- It doesn't necessarily have to be HTML data, though; it can be any data format we like - HTTP is also used to transfer images, videos, documents and other types of data.

Instructions

Fill in the missing boxes according to what you can find based on the Example given above.

Write all your answers in a text file.

Part 1: Status Line

Component	Meaning
HTTP/1.1	
200 OK	

Part 2: Headers

Write in detail the purpose of each header in the response and answer the two questions below.

Header	Purpose
Content-Type:	
Server:	
Content-Length:	

- Why does the browser need **Content-Type** and **Content-Length**?
- As cyber security researchers, how can the **Server** header help us (or help potential attackers)?

Bonus tasks (Optional): Explore HTTP Status Codes

HTTP status codes are a standardized way to indicate the outcome of a client's request by the server.

Each status code falls into one of several categories, such as informational responses, success, redirection, client errors, and server errors.

Your task is to research common HTTP status codes, and understand what they mean.

You can learn more about [Common HTTP Status Codes](#) here

For each status code number provided, fill in the complete status code (including its textual representation) and its meaning. You can put the answers in the same text file and upload it.

Status Code Number	Complete Status Code	When does this happen? Explain in your own words
200		
404		
500		
301		
403		

To submit

Submit your answers in a text file and upload it.

