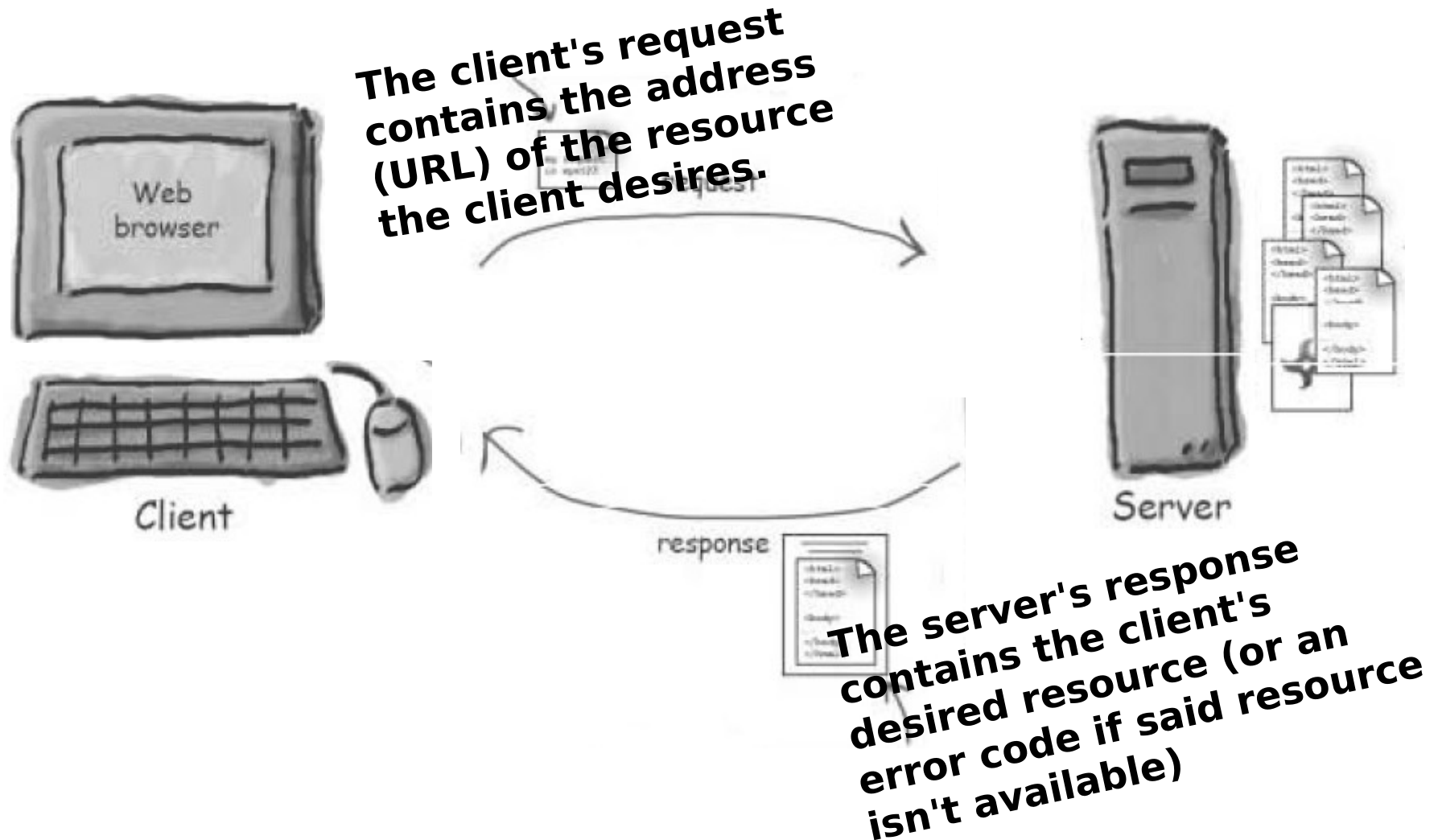


Object Oriented Programming II (JAVA ADVANCED)

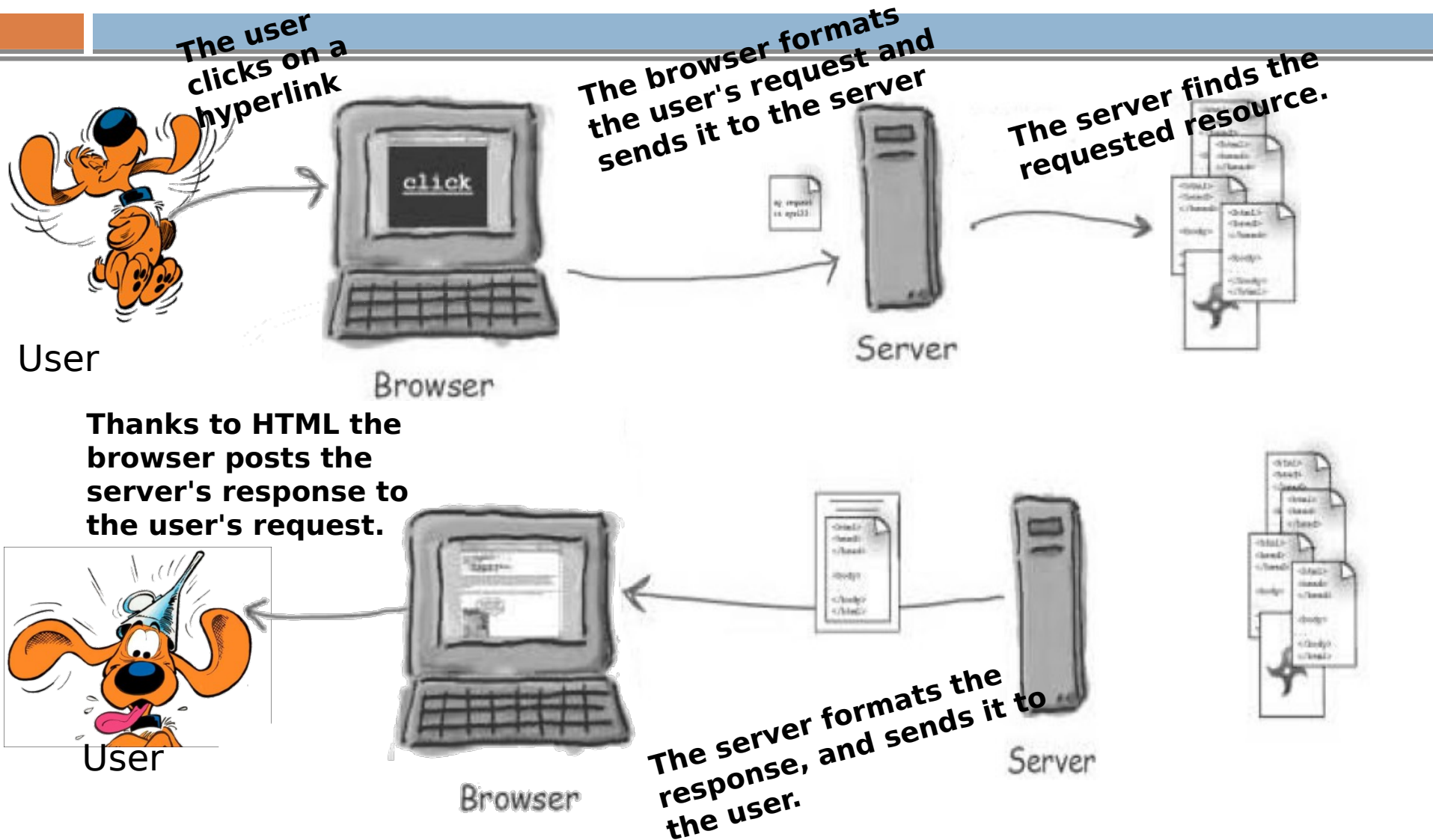
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Hypertext Transfer Protocol (HTTP)

The Role of the Server



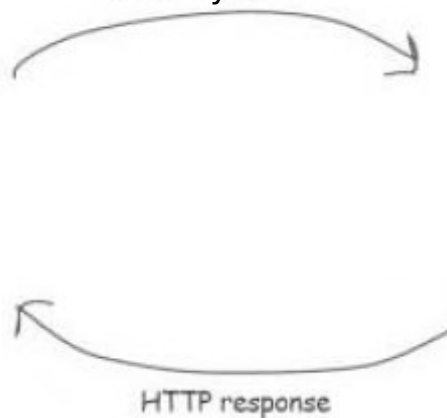
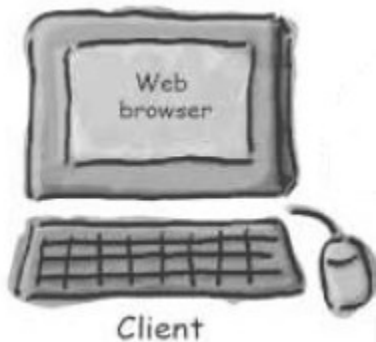
The Role of the Client



The Role of HTTP

Http requests are composed of:

- A request
- Headers
- And sometimes a body.



An Http response is composed of:

- A status
- Zero or more headers
- And generally a body.

Remarks:

After the response is sent to the client, **the HTTP connection that was established between the server and the client is cut off.**

HTTP is a stateless protocol, that is to say without the use of memory.

A new HTTP connection between the user and the server is only established if the client makes a new request to the server.

Commands

GET

HEAD

POST

PUT

DELETE

The GET Command

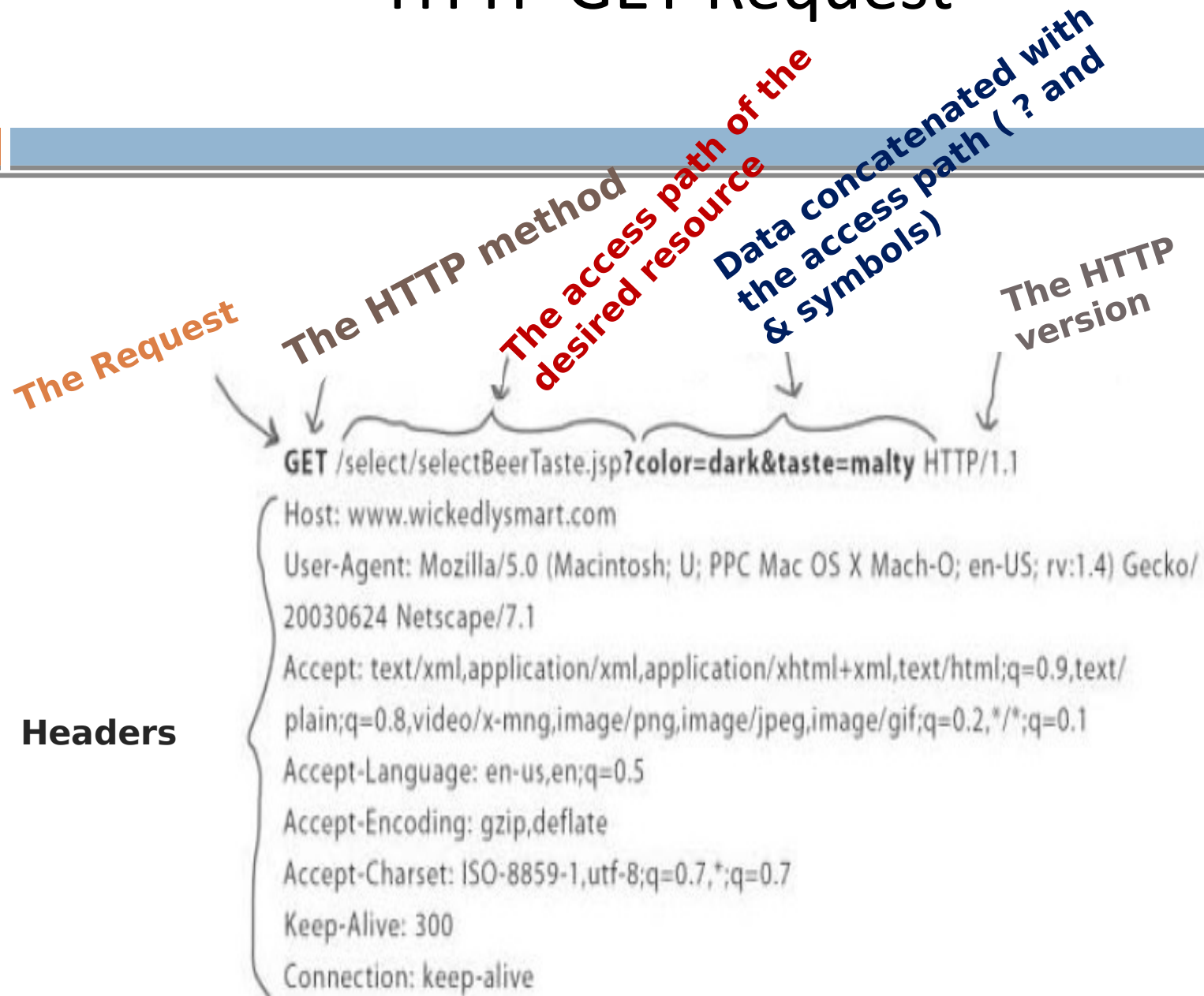
- ♦ GET is the most direct way to request a resource (web page, PDF document, image ...) without having an effect on that resource.
- ♦ GET is used by default for hyperlinks and forms.
- ♦ The GET method can also send data to a web server.

Transfer data to server :

1. Limited size (is dependent on the web server used).
2. Data is concatenated with the URL and will appear on the address bar of the browser.

"In HTTP, a method is a Command that specifies a type of request, that is, it asks the server to perform an action. Generally, the action is for a resource identified by the URL that follows the name of the method." (Wikipedia)

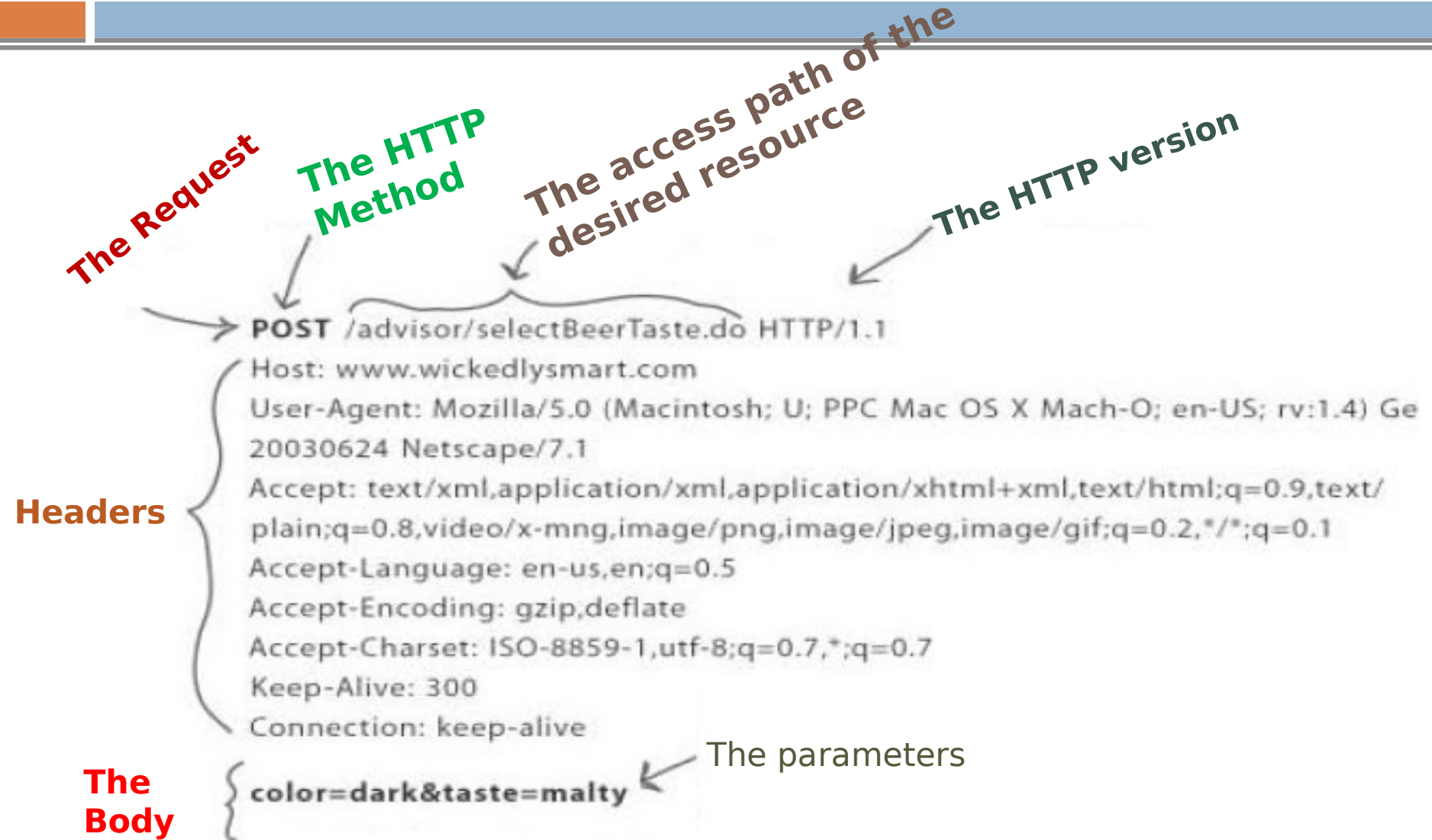
HTTP GET Request



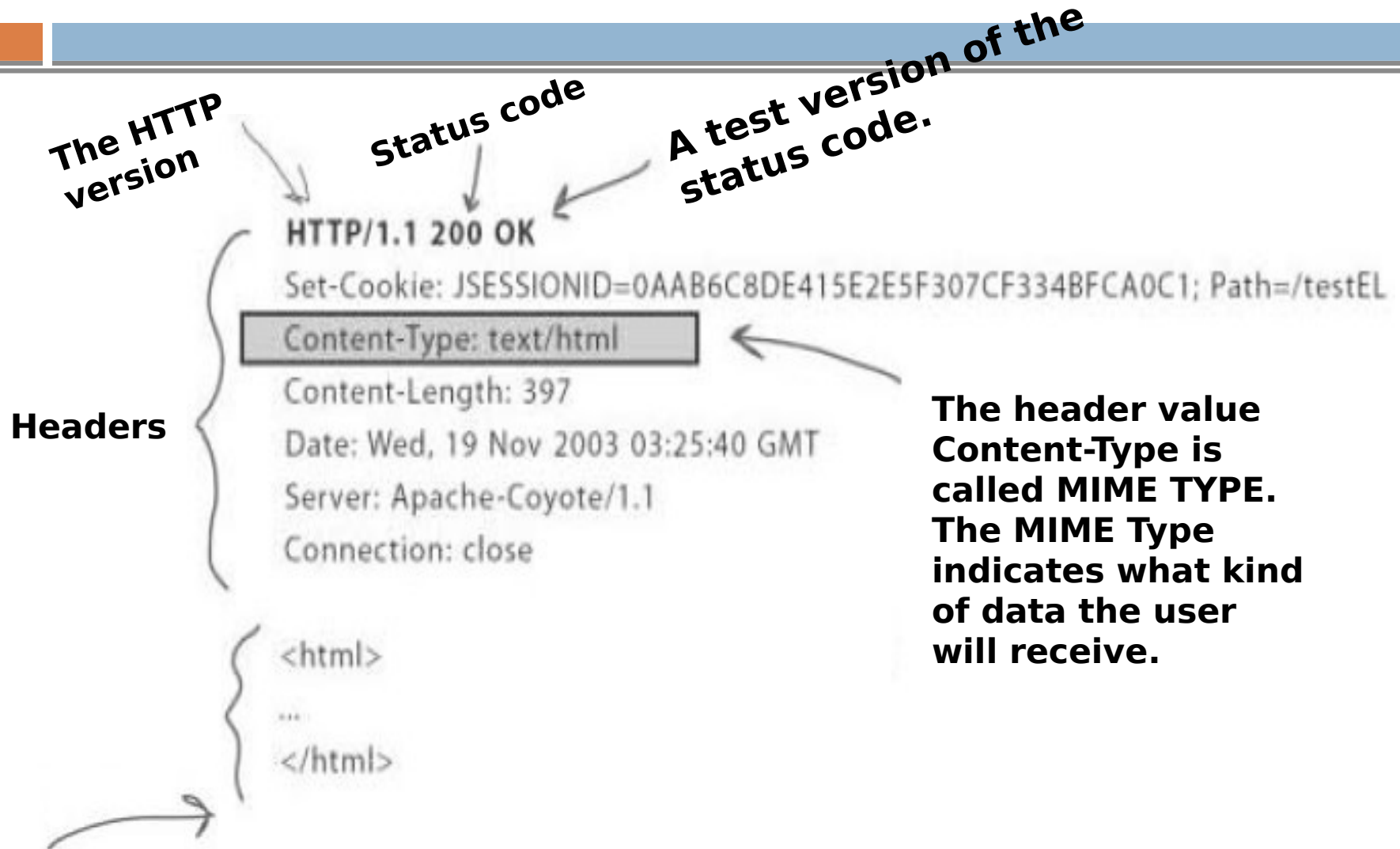
The POST Command

- ♦ The POST method is another HTTP command used to make requests to a server.
- ♦ The POST method, like GET, can also transfer data. In fact, POST is preferred for this purpose because:
 - / POST has no limit to the data transmitted.
 - / POST is more secure, as the data is packaged in the body of the request (rather than in the address bar).

HTTP POST Request



HTTP Response



The header value Content-Type is called MIME TYPE. The MIME Type indicates what kind of data the user will receive.

The body can contain HTML or any other type of resource demanded by the request.

Summary of request / response cycle:

