

NodeJS & HTTP

Agenda

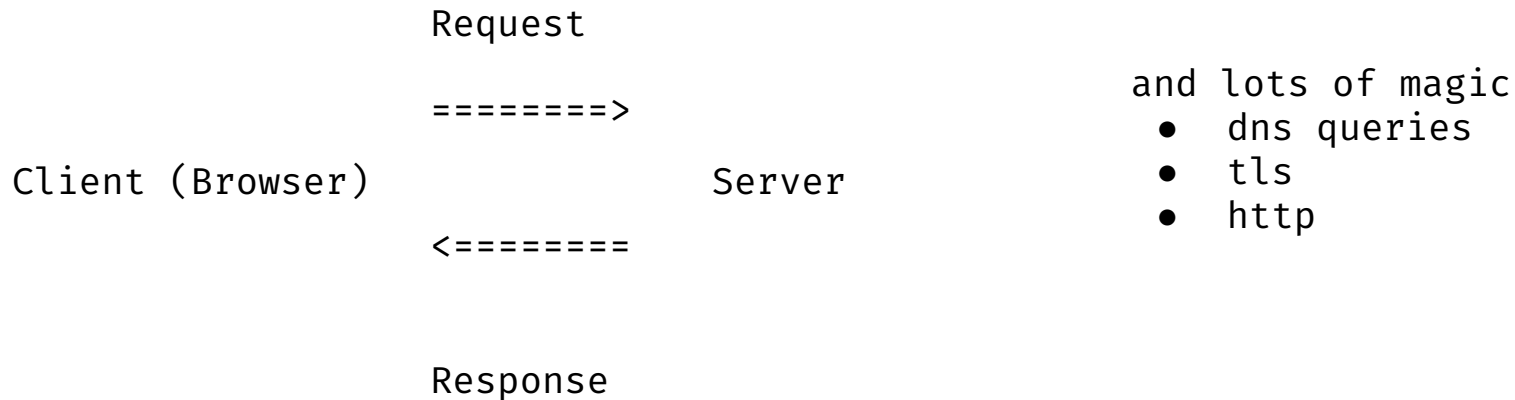
- NodeJS
- NPM
- How the web works
- HTTP Headers
- HTTP Methods
- HTTP Status

NodeJS

- NodeJS is a JS runtime environment
- NodeJS is server-side
- Node has a set of core modules
 - events
 - fs
 - http
 - os
 - path

NPM

- Node Package Manager
- Installing 3rd party modules
- `./package.json`



How the web works

HTTP Headers

HTTP headers let the client and the server pass additional information with an HTTP request or response.

HTTP Headers (cont.)

- Content-Type
- Authentication
- Accept
- Accept-Language
- Location
- Cache-Control

HTTP Methods

- GET
- HEAD
- POST
- PUT
- DELETE
- PATCH
- OPTIONS

HTTP Status

- 100-199 (Informational responses)
- 200-299 (Successful responses)
 - 200 OK - The request has succeeded
 - 201 Created - The request has succeeded and a new resource has been created as a result
 - 204 No Content - There is no content to send for this request, but the headers may be useful.

HTTP Status (cont.)

- 300-399 (Redirects)
 - 300 Multiple Choice - The request has more than one possible response
 - 301 Moved Permanently - The URL of the requested resource has been changed permanently
 - 302 Found - This response code means that the URI of requested resource has been changed temporarily

HTTP Status (cont.)

- 400-499 (Client errors)
 - 400 Bad Request - The server could not understand the request due to invalid syntax
 - 401 Unauthorized - the client must authenticate itself to get the requested response
 - 403 Forbidden - The client does not have access rights to the content; that is, it is unauthorized, so the server is refusing to give the requested resource. Unlike 401, the client's identity is known to the server

HTTP Status (cont.)

- **400-499 (Client errors)**
 - 404 Not Found - The server can not find the requested resource
 - 405 Method Not Allowed - The request method is known by the server but has been disabled and cannot be used
 - 409 Conflict - This response is sent when a request conflicts with the current state of the server
- **500-599 (Server errors)**
 - 500 Internal Server Error - The server has encountered a situation it doesn't know how to handle
 - 501 Not Implemented - The request method is not supported by the server and cannot be handled.

Question?

Code example

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