Write a function that takes in a number and returns the corresponding day of the week.

Ex:

Input: 1

Output: 'Monday'

Input: 5

Output: 'Friday'

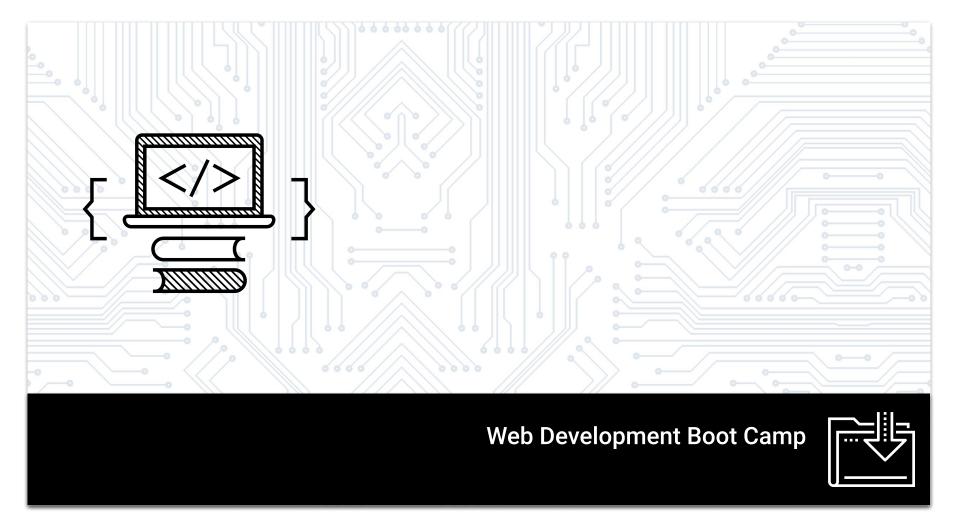
Input: 8

Output: undefined

Hints:

- 1. new Date().getHours() will return the hours 0 -23
- 2. use a Swtich-Case

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A Little Perspective on How Far You've Come:

Last time I said this, you barely knew what a <div> was.

Instructor Feedback

Things I've noticed people doing incredibly well:



Stunning front-ends



Amazing execution of challenging concepts (no one took the easy road)



Fantastic explanations of your code and technology



Basically everything!



Share your hard work with the world—find ways to showcase your code on social media and the web.

Close Out Your Projects Well

Take your finished project to the next level



Create READMEs for your code on GitHub.



Fork/star other people's code.



Consider writing a blog article or making a video that builds from scratch.

The Mystery of Back-End

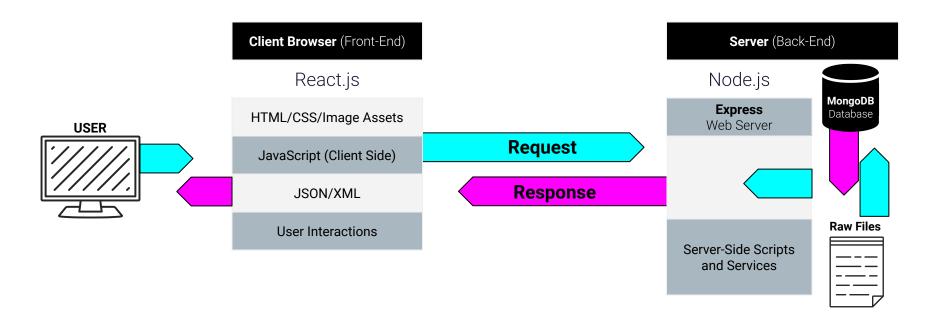


Full-Stack Development?



Full-Stack Development

In modern web applications, there is constant back-and-forth communication between the visuals displayed on the user's browser (the **front-end** or the **client**) and the data and logic stored on the server (the **back-end**).



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The "Magic" of YouTube

Key Question: Examples of Server-Side Code?

Server-Side Code in Action!

Examples of server-side code:



APIs that parse URL parameters to provide selective JSONs



Dynamically render HTML using a template engine



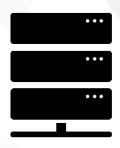
Clicking an invoice that provides a PDF report



Image processing software that takes an image, applies a filter, then saves the new version



Google providing results that are relevant to your searches on other sites



Critical Question:

What Is a Server?

Definition of Server

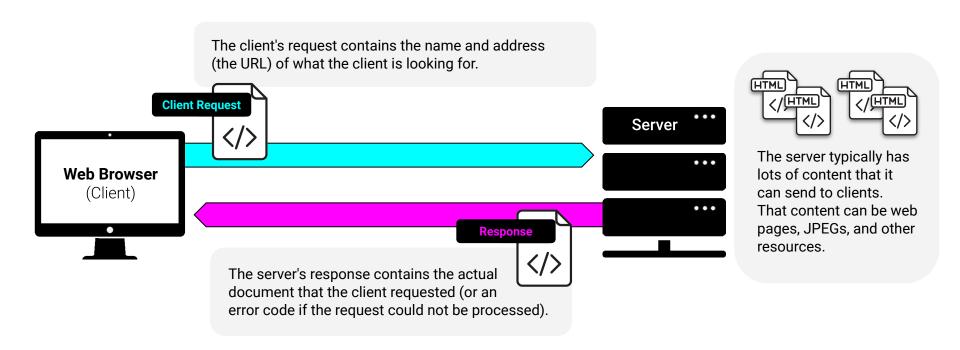
A web server takes a client request and gives something back.

A web browser lets a user request a resource. The web server gets the request, finds the resource, and returns something to the user. Sometimes the resource is an HTML page. Sometimes it's a picture. Or a sound file. Or even a PDF document. Doesn't matter—the client asks for the thing (resource) [or action] and the server sends it back.

...When we say "server," we mean either the physical (hardware) or the web server application (software) [that actually runs the server commands].

- Kathy Sierra, Head First Servlets and JSP (O'Reilly, 2004)

Server Definition



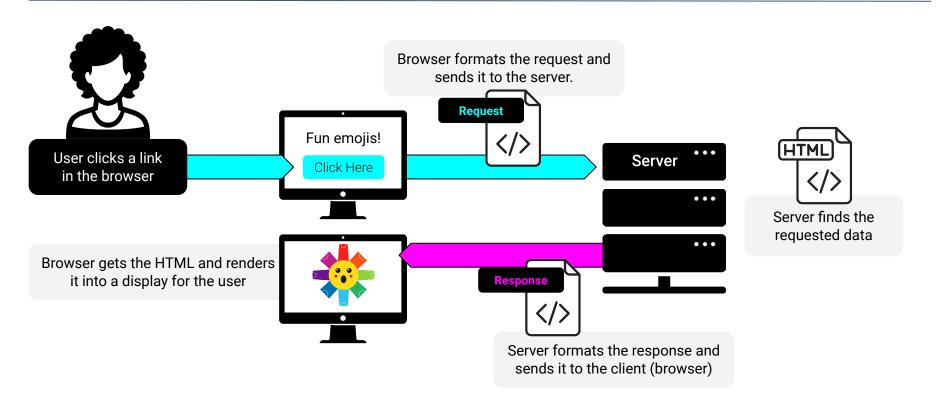
Definition of Web Client

A **web client** lets the user request something on the server and then shows the result (response) from the server.

When we talk about client, though, we usually mean both (or either) the human user and the browser application. The browser is the piece of the software that knows how to communicate with the server. The browser's other big job is interpreting the HTML code (sent by the server) and rendering the web page to the user.

- Kathy Sierra, Head First Servlets and JSP (O'Reilly, 2004)

Web Client Definition





Activity:

Turn to the person next to you and take turns explaining the following terms to each other:

- Server
- Web client
- Request
- Response

Suggested Time:



Yay!

You made it through the ultra-important stuff!





Key Question:So What Is ndcs?

Definition of NodeJS

Node.js is an open source, cross-platform JavaScript runtime environment designed to be run outside of browsers.

It is a general utility that can be used for a variety of purposes including asset compilation, scripting, monitoring, and **most notably as the basis for web servers.**





Activity:

Take a few moments to research five companies that actively use NodeJS in production.

Suggested Time:



Why Use NodeJS as a Server?



NodeJS reuses Javascript, which means a front-end Javascript developer can build an entire server themselves.



It's easily extendable. Numerous plugins exist to expand the capabilities of Node.



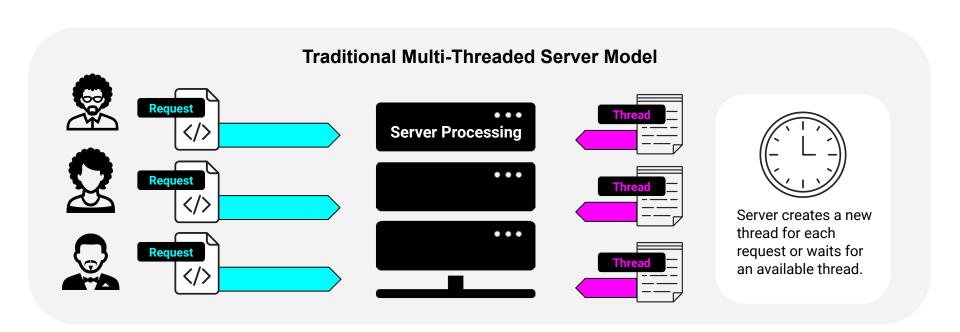
Fast implementation, which allows you to create an entire working server with only a few lines of code.



Single-Threaded Asynchronous Model, which means it can handle multiple requests simultaneously and not get bottlenecked.

Synchronous Threading

In synchronous threading, each request requires its own thread. No other request can pass through that thread until it completes. This can create bottlenecks.



Asynchronous Threading (the Node Way)

In Node-based asynchronous threading, a single thread is used throughout. Each thread is "put to the side" using callbacks and responded to when ready. Because of this, there is no limit on the number of requests that can be responded to and there is no bottleneck.

