

# Where is JavaScript Used?



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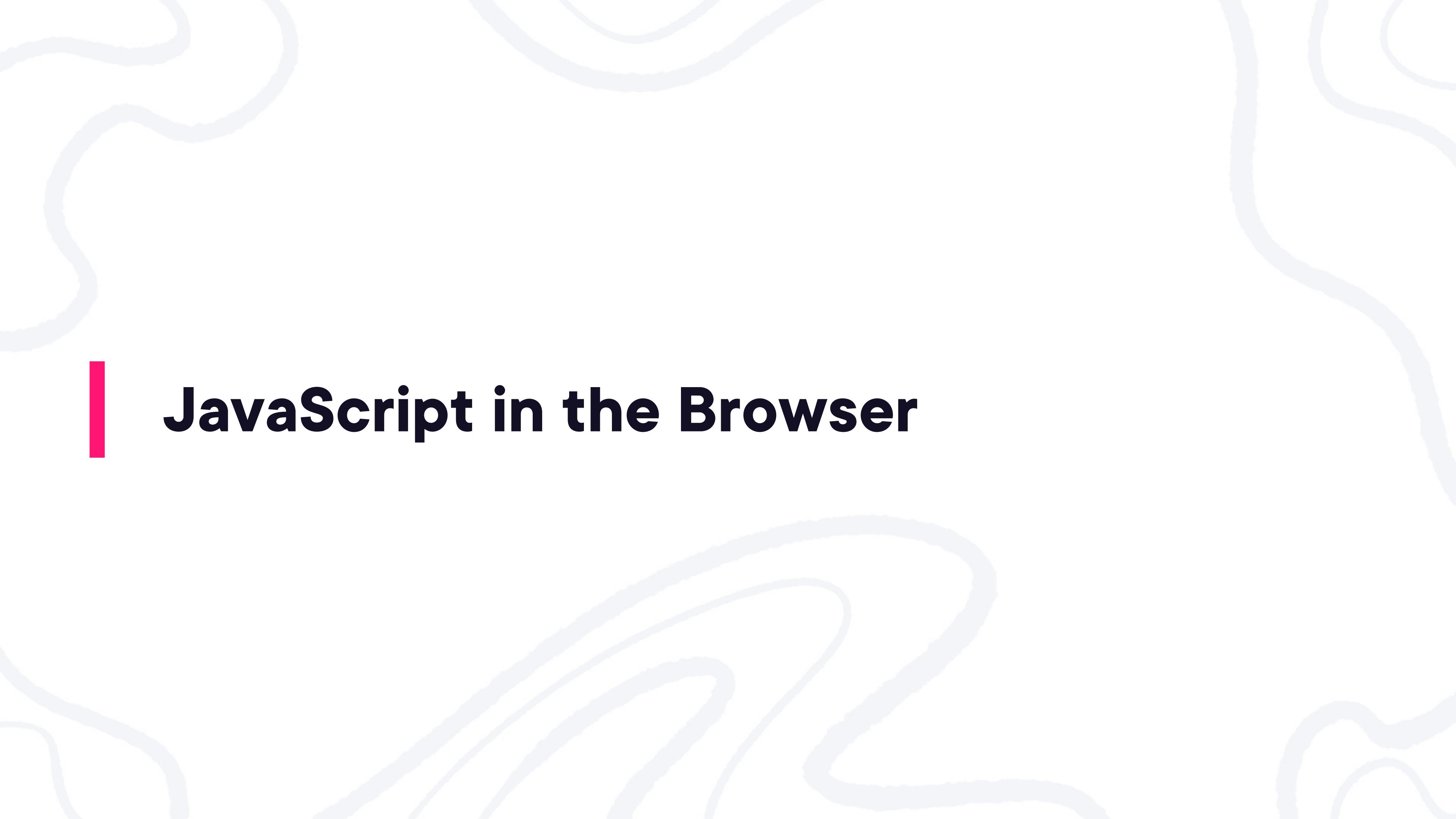
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## **Course Links and Resources**

All tools, frameworks, and resources mentioned in this course can be found via the following link.

**<https://tuck.cc/jslinks>**



# JavaScript in the Browser

# Popular JavaScript Engines

**V8**

Google Chrome,  
Microsoft Edge

**JavaScriptCore**

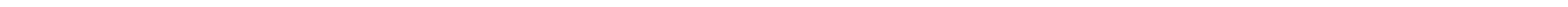
Safari

**SpiderMonkey**

Firefox

# **HTML**

**HTML stands for HyperText Markup Language,  
and it is where we define the structure of any  
web page.**



# HTML Example

## index.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>HTML Example</title>
  </head>
  <body>
    <p>This is a paragraph within HTML. In
      addition, you can also define links to get
      to other pages like <a href="https://
      pluralsight.com">Pluralsight</a>.</p>
  </body>
</html>
```

# World Wide Web

The WorldWideWeb (W3) is a wide-area [hypermedia](#) information universe of documents.

## First ever web page by Tim Berners-Lee

Everything there is online about W3 is linked directly or indirectly to this document, including an [executive summary](#) of the project, [Mailing lists](#), [Policy](#), November's [W3 news](#), [Frequently Asked Questions](#).

### [What's out there?](#)

Pointers to the world's online information, [subjects](#), [W3 servers](#), etc.

### [Help](#)

on the browser you are using

### [Software Products](#)

A list of W3 project components and their current state. (e.g. [Line Mode](#), [X11 Viola](#), [NeXTStep](#), [Servers](#), [Tools](#), [Mail robot](#), [Library](#))

### [Technical](#)

Details of protocols, formats, program internals etc

### [Bibliography](#)

Paper documentation on W3 and references.

### [People](#)

A list of some people involved in the project.

### [History](#)

A summary of the history of the project.

### [How can I help ?](#)

If you would like to support the web..

# CSS

**CSS stands for Cascading Style Sheets, and it enables us to define how our HTML should look when it is rendered in the browser.**

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# CSS Example

## style.css

```
body {  
    background-color: white;  
    margin-top: 10px;  
}  
  
p {  
    color: red;  
    font-size: 40px;  
}  
  
a {  
    text-decoration: none;  
}
```

# JavaScript Example

index.html

```
<head>
  <script>
    function onClick() {
      const m = document.getElementById("menu");
      if (m.style.display === 'none') {
        m.style.display = 'block';
      } else {
        m.style.display = 'none';
      }
    }
  </script>
</head>
<body>
  <button onclick="onClick()">Toggle Menu</button>
  <div id="menu">Site Menu</div>
</body>
```

# Popular Web App Frameworks

**React**

Maintained by Meta

**Angular**

Maintained by Google

**Vue.js**

**Svelte**

# JSX

**JSX is an extension for JavaScript, most commonly used in the React framework, that enables you to write HTML-like markup directly within JavaScript.**

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# JavaScript on the Server

# Node.js

**Node.js is a JavaScript environment which executes JavaScript code inside of the V8 JavaScript engine and provides an I/O library to do things you can't do in the browser environment.**

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# Package manager

In terms of software development, a package manager is a tool that enables you to install and manage software written by other developers into your own software projects.

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# Package Management Options

**Package management clients:**

- npm
- yarn
- pnpm

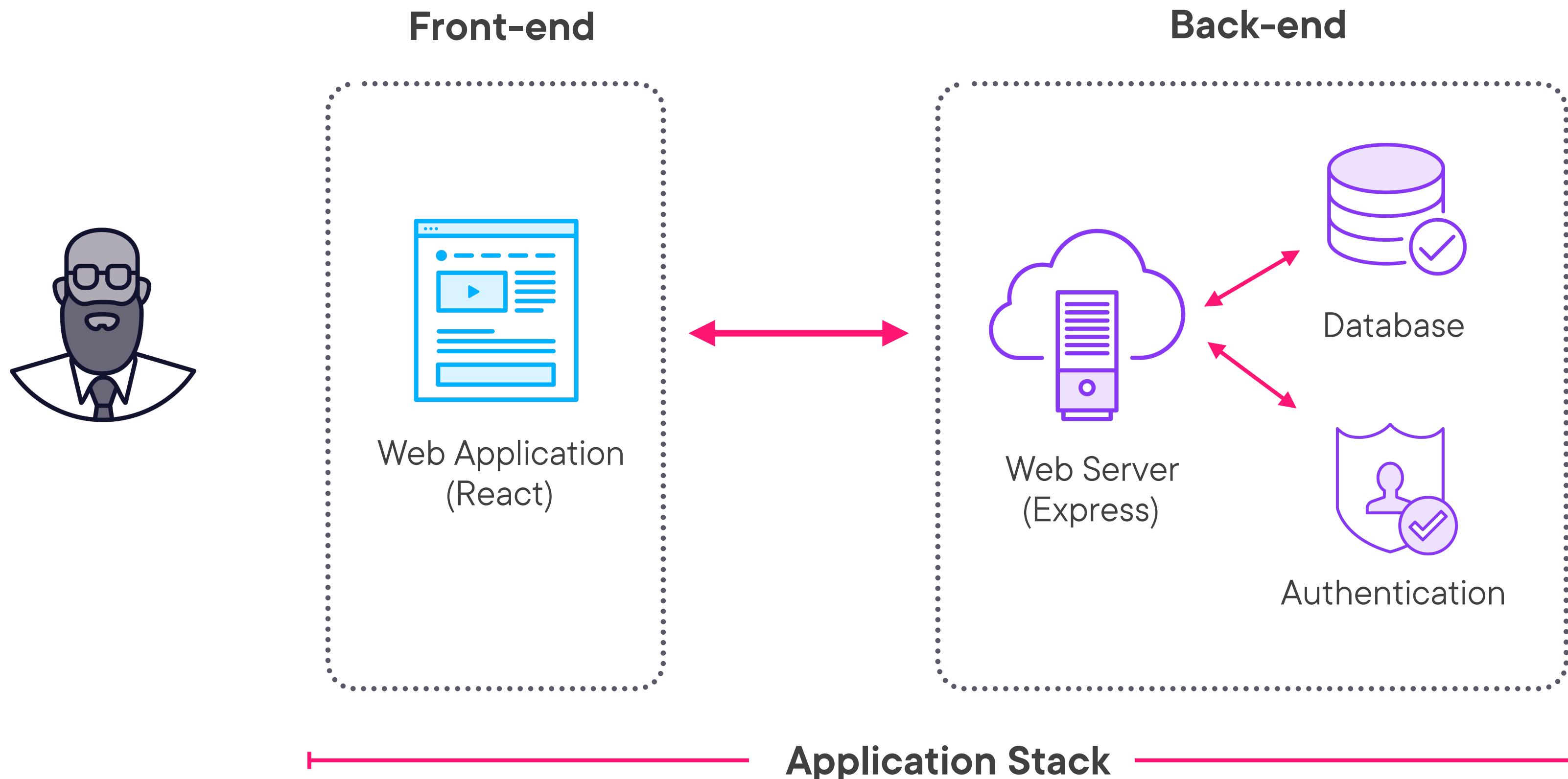
**Registries:**

- npm



# Full Stack JavaScript

# Typical Web Application



## **Full Stack Benefits**

**Understand  
challenges on all tiers**

**Gain exposure to  
other tools and  
frameworks**

**Build with your own  
skill set**



# **Additional JavaScript Use Cases**

# JavaScript Use Cases

**Desktop applications**

**Mobile applications**

**IoT experiences**

**Configure and deploy  
cloud infrastructure**

# Public Cloud Providers



**Amazon Web  
Services (AWS)**



**Microsoft  
Azure**



**Google Cloud**

**Google Cloud  
Platform (GCP)**

**Up Next:**

# **How is JavaScript Versioned?**

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