
JAVASCRIPT INTRODUCTION

Anirach Mingkhwан

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Google Scholar 🔍



Anirach Mingkhwan

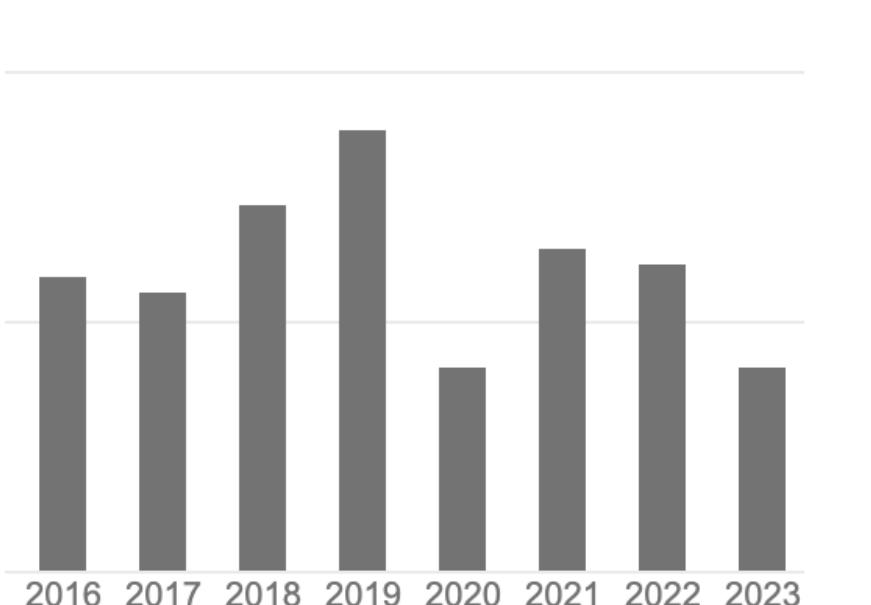
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Network Technologies Information Science Natural Inspired Computing Mobile Computing

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Generating and Evaluating Text Summarisations using Text-representing Centroids (TRC) Y Ruamsuk, A Mingkhwan, H Unger 2022 Research, Invention, and Innovation Congress: Innovative Electricals ...	2022	
A Concept for Recommender Systems Based on Text-Representing Centroids H Unger, M Kubek, H Unger, M Kubek, Y Ruamsuk, A Mingkhwan The Autonomous Web, 25-33	2022	
ผลของการเรียนด้วยระบบการเรียนแบบปรับเหมาะสมตามรูปแบบการเรียนรู้ VARK เพื่อเสริมสร้างผลสัมฤทธิ์ทางการเรียนของนักศึกษาระดับปริญญาตรีสาขาเทคโนโลยีสารสนเทศมหาวิทยาลัยเทคโนโลยี... B Daoruang, C Sanrach, A Mingkhwan Journal of Educational Measurement Mahasarakham University 27 (2), 178-191	2021	
Design of Particulate Matter Monitoring based on NB-IoT N Nakjuatong, A Mingkhwan, P Boonrawd 2021 25th International Computer Science and Engineering Conference (ICSEC ...	2	2021

Co-authors [VIEW ALL](#)

 Madjid Merabti University of Sharjah, UAE	>
 Paul Fergus Professor of Machine Learning a...	>
 Martin Hanneghan Subject Leader for Computing an...	>

anirach.m@fitm.kmutnb.ac.th

Grade categories

Grade category*	Default points*	X
Class Participation	5	
20 / 100		
Grade category*	Default points*	X
HW-01	5	
5 / 100		
Grade category*	Default points*	X
HW-02	5	
5 / 100		
Grade category*	Default points*	X
HW-03	5	
5 / 100		
Grade category*	Default points*	X
HW-04	5	
5 / 100		
Grade category*	Default points*	X
HW-05	5	
5 / 100		
Grade category*	Default points*	X
Project	10	
7 / 100		
Grade category*	Default points*	X
Midterm	30	
7 / 100		
Grade category*	Default points*	X
Final	30	

The screenshot shows the Exercism website dashboard for user Anirach. At the top, there is a navigation bar with links for Dashboard, Tracks, Mentoring, Community (which has a 'New' badge), and Donate. To the right of the navigation are icons for a profile picture, a bell, notifications (4 notifications), and more options. Below the navigation, a sidebar on the left displays the user's profile picture and name, Anirach Mingkhwan. A blue button on the right says 'See your journey on Exercism >'. The main content area features a large 'Welcome back, Anirach!' message with a subtext about solving coding exercises and getting mentored. It also includes a call-to-action button for contributing or donating. Below this, there are four cards: 'Continue learning on your tracks', 'Try your hand at mentoring', 'Contribute to building Exercism', and 'Donate to help us grow sustainably'. To the right, a section titled 'Your Tracks' lists 'JavaScript' and 'Python' with progress bars showing 2/139 and 2/131 exercises completed respectively. A 'Discover more tracks' link is also present.

{`}` **Anirach**
Anirach Mingkhwan

Dashboard Tracks Mentoring Community New Donate 💕

See your journey on Exercism >

{`}` Welcome back, Anirach!

Solve coding exercises and get mentored to gain true fluency in your chosen programming languages. Exercism is open-source and not-for-profit.

Exercism is built by people like you. Can you [contribute](#) or [donate](#) to help us grow?

Continue learning on your tracks

Try your hand at mentoring

Contribute to building Exercism

Donate to help us grow sustainably

Your Tracks

JavaScript
2 / 139 exercises completed

Python
2 / 131 exercises completed

[Discover more tracks →](#)

<https://exercism.org/>

The screenshot shows the Exercism JavaScript track dashboard. At the top, there's a navigation bar with links for Dashboard, Tracks, Mentoring, Community (with a 'New' badge), and Donate. On the right side of the header are icons for a profile picture, notifications (4), and a user icon.

The main section features a large 'JavaScript' title with a yellow hexagon icon containing 'JS'. Below it, it says '205,490 students'. There are four tabs: Overview (selected), Syllabus, Exercises, and About.

Your Activity

You're 1.4% through the JavaScript track. Keep it up! 🚀

A progress bar shows 1.4% completion. Below the progress bar is a grid of 139 exercise icons. The first two are green with checkmarks, while the rest are grey with locks. At the bottom of the grid, it says 'Completed 2', 'In-progress 0', 'Available 40', 'Locked 97', and 'Total Exercises 139'.

Contributors & Mentors

215 contributors
4104 mentors

Activity Metrics

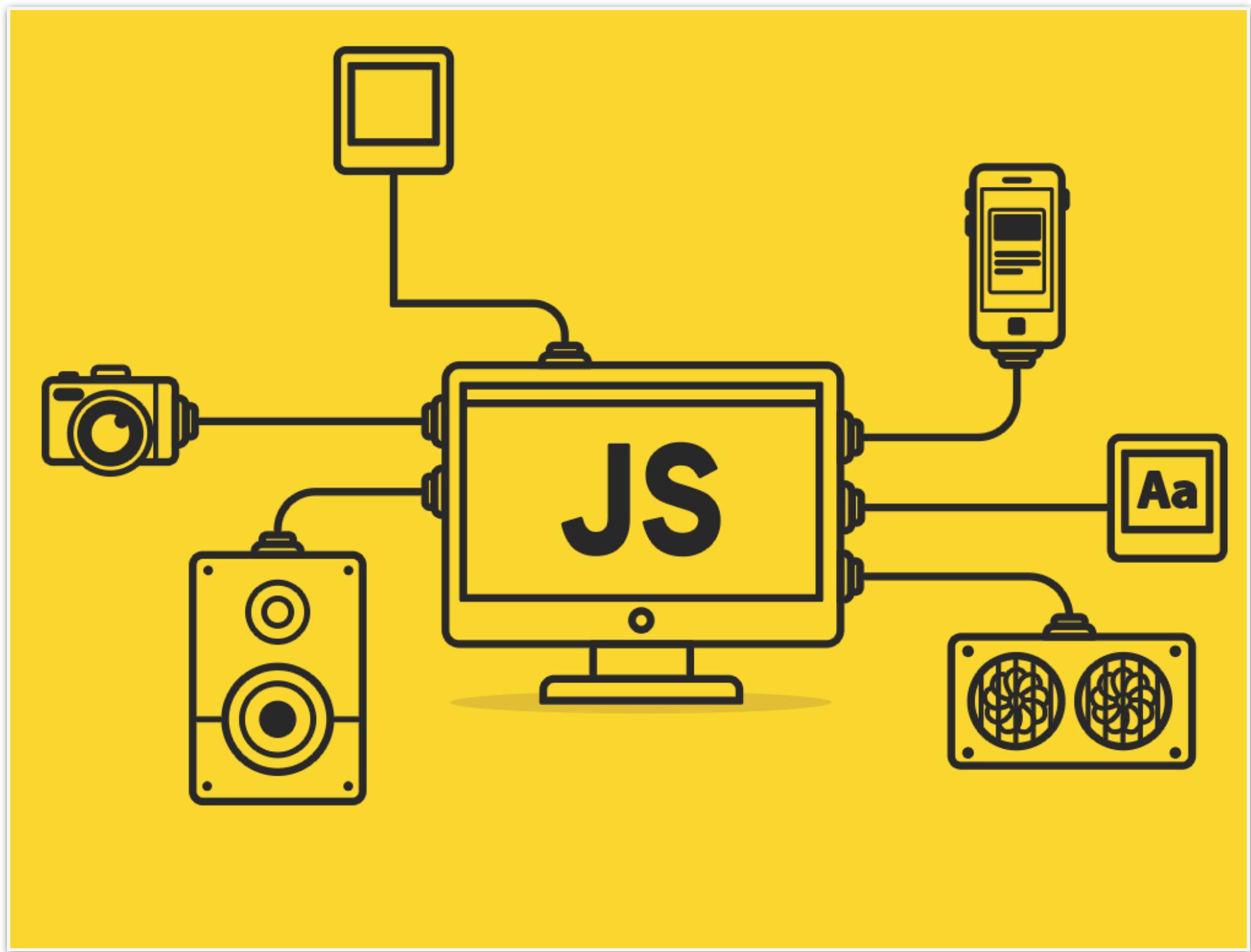
0.3 Avg. exercises completed per week (last 8 weeks)

2 Exercises completed

<https://exercism.org/>

OUTLINE

- Introduction
- Setup and Hello World
- JavaScript in Browsers



ONLINE LEARNING

The screenshot shows the Channel 9 website interface. At the top, there is a navigation bar with a logo of a white robot head on a yellow book-like shape, followed by the text "Channel 9". To the right of the logo are links for "all content", "shows", and "events". On the far right of the bar are search and sign-in buttons. Below the navigation bar, the main content area has a dark background with a large, semi-transparent watermark of the words "Beginner's Series to: JavaScript" repeated across it. The main title "Beginner's Series to: JavaScript" is displayed prominently in white. To the left of the title is a thumbnail image for the series, which features the text "Beginner's Series to: JavaScript" and "51 episodes" over a blue circular graphic. To the right of the title are two buttons: one for "rss" and one for "sign in to subscribe". The main text content discusses the purpose of the series, mentioning Node.js and the core concepts of JavaScript. A "show more" button is located at the bottom left of the main text area.

Last episode: Oct 05, 2020 at 8:00AM
Beginner's guide to JavaScript on Node.js

Learning a new framework or development environment is made even more difficult when you don't know the programming language. Fortunately, we're here to help! We've created this series of videos to focus on the core concepts of JavaScript.

While we don't cover every aspect of JavaScript, we will help you build a foundation from which you can continue to...

show more

<https://channel9.msdn.com/Series/Beginners-Series-to-JavaScript>

ONLINE LEARNING

The screenshot shows the Codecademy website interface. At the top, there is a navigation bar with links: codecademy, My Home, Course Catalog, Resources ▾, Community ▾, and Plans + Pricing ▾. To the right of the navigation are search, notification, and user profile icons, along with a purple "Try Pro For Free" button. Below the navigation is a large teal-colored section containing the text "Learn JavaScript" and a yellow "Resume" button. At the bottom of the page, there are two tabs: "Overview" and "Syllabus", with "Syllabus" being underlined. A progress bar at the bottom indicates "0%" completion, accompanied by a trophy icon.

<https://www.codecademy.com/learn/introduction-to-javascript>

ONLINE LEARNING

The screenshot shows the homepage of [JavaScript.info](https://javascript.info/). At the top left is the logo "JAVÅSCRIPT.INFO" with "EN" below it. At the top right are buttons for "Buy EPUB/PDF", user profile, and search. The main title "The Modern JavaScript Tutorial" is centered above a subtitle: "How it's done now. From the basics to advanced topics with simple, but detailed explanations." Below this are publication details: "12th December 2020" and "12570 ★ github". There are social sharing links for Twitter and Facebook. A search bar at the bottom left contains the placeholder "Search in the tutorial" and an orange "SEARCH" button. A "Table of contents" section is visible at the bottom.

JAVÅSCRIPT.INFO
EN

Buy EPUB/PDF

The Modern JavaScript Tutorial

How it's done now. From the basics to advanced topics with simple, but detailed explanations.

12th December 2020 12570 ★ github Share:

Search in the tutorial

Table of contents

Main course contains 2 parts which cover JavaScript as a programming language and working with a browser. There are also additional series of thematic articles.

ONLINE LEARNING

The screenshot shows a website navigation bar at the top with links for Home, HTML, CSS, JAVASCRIPT (which is highlighted in green), SQL, PYTHON, PHP, BOOTSTRAP, HOW TO, MORE ▾, REFERENCES ▾, and CERTIFI. The main content area has a sidebar on the left titled "JS Tutorial" with a "JS HOME" section containing links to various JavaScript topics: JS Introduction, JS Where To, JS Output, JS Statements, JS Syntax, JS Comments, JS Variables, JS Operators, JS Arithmetic, JS Assignment, JS Data Types, JS Functions, JS Objects, JS Events, and JS Strings. The main content area features a large title "JavaScript Tutorial". Below it are four bullet points: "JavaScript is the world's most popular programming language.", "JavaScript is the programming language of the Web.", "JavaScript is easy to learn.", and "This tutorial will teach you JavaScript from basic to advanced.". A green button at the bottom of this section says "Start learning JavaScript now ➔". At the bottom of the page, the text "Examples in Each Chapter" is displayed.

JS Tutorial

JS HOME

JS Introduction
JS Where To
JS Output
JS Statements
JS Syntax
JS Comments
JS Variables
JS Operators
JS Arithmetic
JS Assignment
JS Data Types
JS Functions
JS Objects
JS Events
JS Strings

JavaScript Tutorial

◀ Home

Next ➔

JavaScript is the world's most popular programming language.

JavaScript is the programming language of the Web.

JavaScript is easy to learn.

This tutorial will teach you JavaScript from basic to advanced.

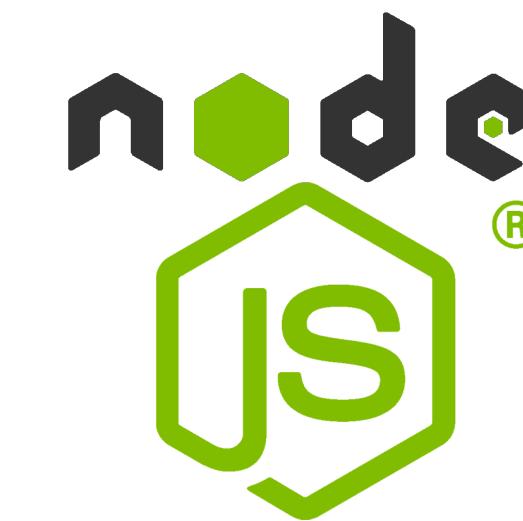
Start learning JavaScript now ➔

Examples in Each Chapter

INTRODUCTION



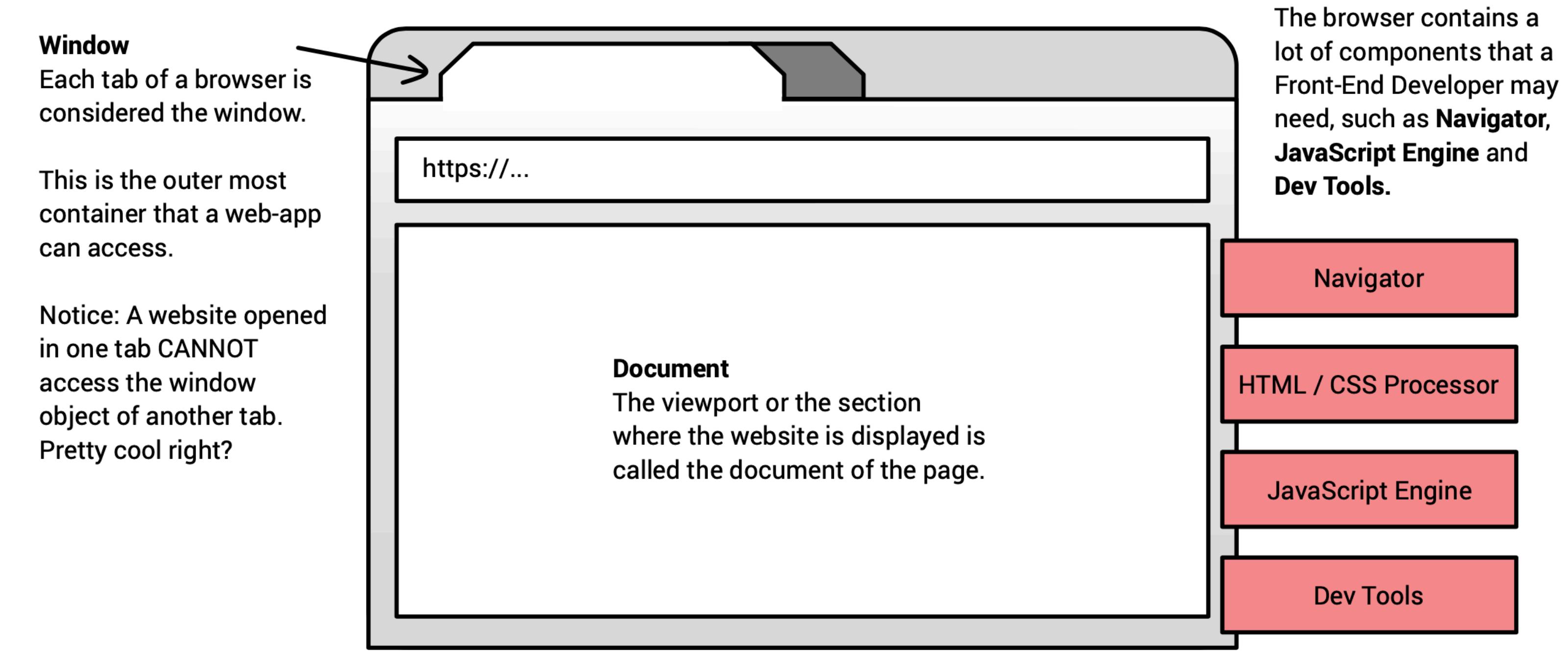
Netscape



- JavaScript ถูกพัฒนาโดยนาย Brendan Eich พนักงานจากบริษัท NetScape โดยชื่อแรกของมันคือ Mocha แต่ถูกเรียกและเปิดตัวอย่างเป็นทางการในชื่อ LiveScript ก่อนจะมาเป็น JavaScript ในปัจจุบัน
- หลาย ๆ คนอาจเข้าใจผิดว่า JavaScript กับ ECMAScript คือภาษาเดียวกัน เพราะชื่อจำพวก ES6, ES7, ES2016 แต่จริง ๆ แล้วมันคนละตัวกัน โดย ECMAScript เป็นมาตรฐานสำหรับภาษา Script ซึ่ง JavaScript นั้นก็ถูกพัฒนาตามมาตรฐานนี้เช่นกัน
- JavaScript เดิมเป็น Engine อยู่ใน Web Browser และได้ถูกถอดออกจากเพื่อให้ทำงานภายนอก Web Browser ได้ในชื่อของ node โดย

BROWSER

A web browser is a pretty advance piece of software which contains a lot of components. Many of these components are accessible to a web developer, so we can create complex web apps. At the same time a lot of components are kept out of reach of the web developer for security purposes. For instance, we as web developers can get access to the user's location, but we cannot get access to the user's saved passwords or browsing history. **Let's see below how a browser is structured:**



HTML

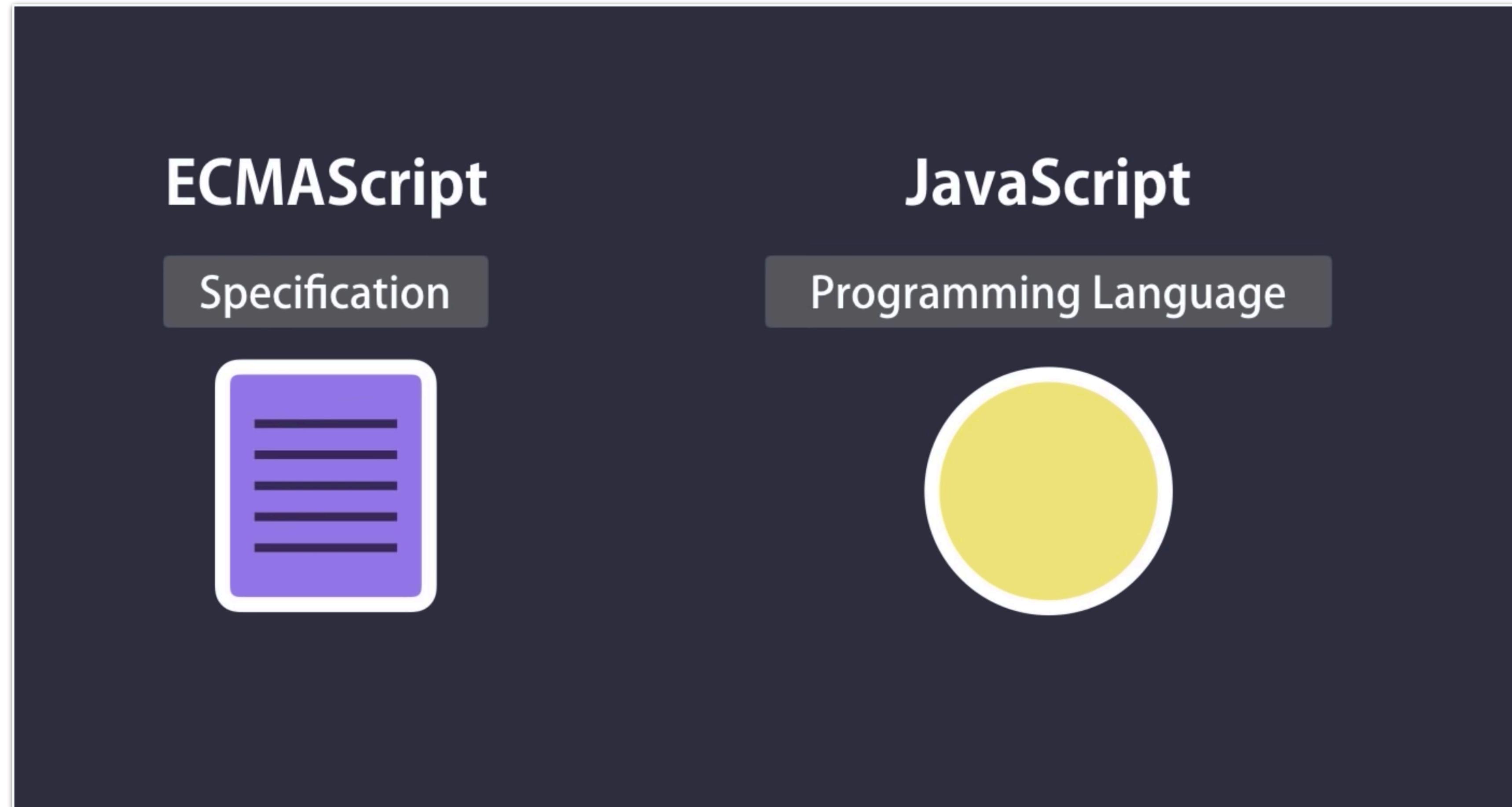
Lecture-01 Introduction >  Hello.html > ...

```
1  <!DOCTYPE html>
2  <html>
3  |  <head> </head>
4  |  <body>
5  |  |  <h1>Hello, world!</h1>
6  |  </body>
7  </html>
8
```

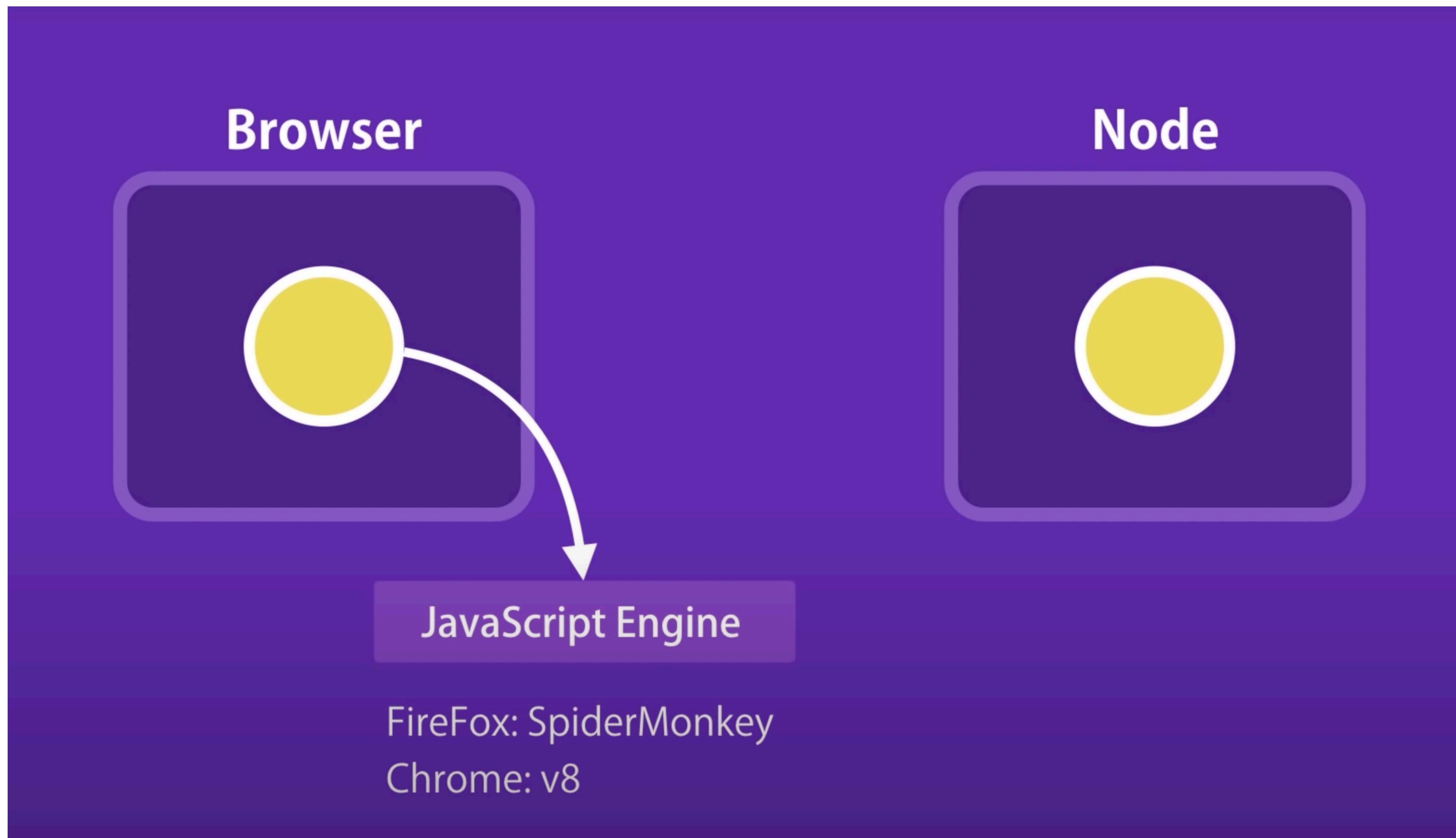
HTML with JavaScript

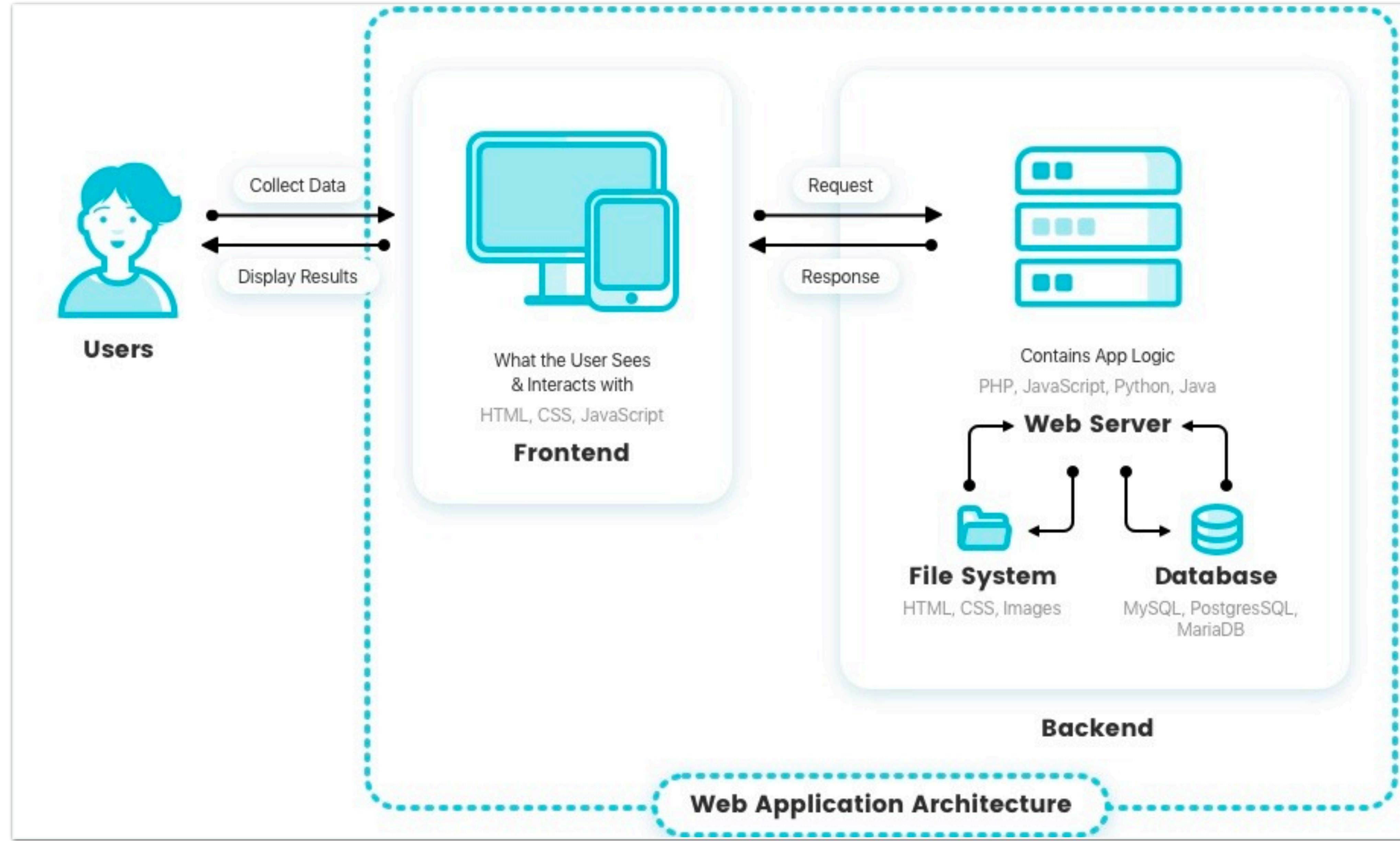
Lecture-01 Introduction >  jsHello.html > ...

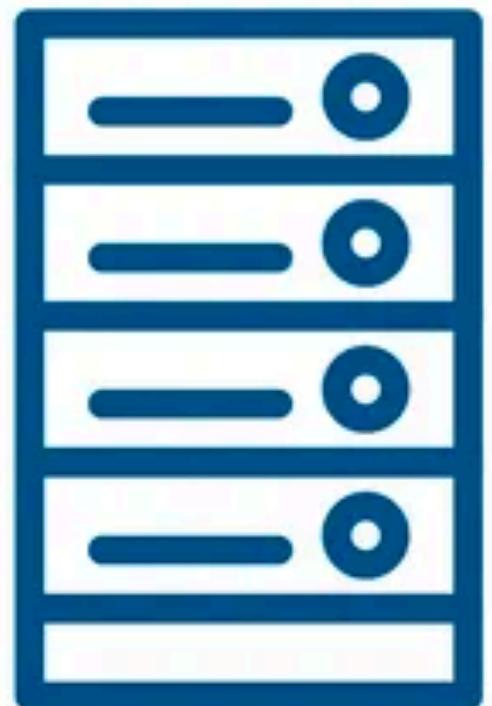
```
1  <!DOCTYPE html>
2  <html>
3  |  <body>
4  |  |  <h1 id="demo"></h1>
5  |  |  <script>
6  |  |  |  function myFunction() {
7  |  |  |  |  document.getElementById("demo").innerHTML = "Hello World!";
8  |  |  |  }
9  |  |  |  myFunction();
10 |  |  </script>
11 |  </body>
12 </html>
13
```



ECMA : European Computer Manufacturer's Association





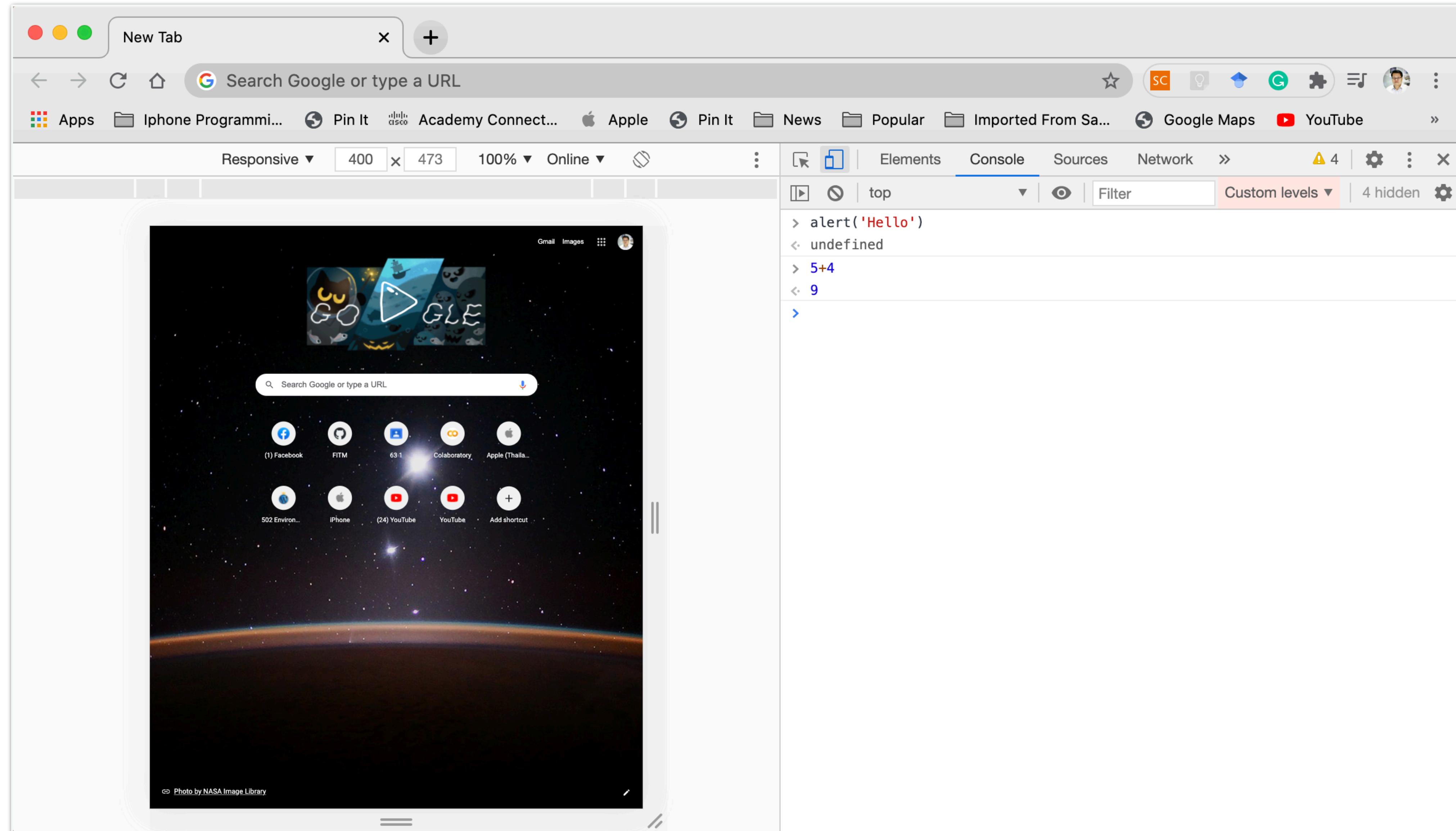


Front End

- Markup and web languages such as HTML, CSS and Javascript
- Asynchronous requests and Ajax
- Specialized web editing software
- Image editing
- Accessibility
- Cross-browser issues
- Search engine optimisation

Back End

- Programming and scripting such as Python, Ruby and/or Perl
- Server architecture
- Database administration
- Scalability
- Security
- Data transformation
- Backup



The screenshot shows a browser window displaying a simple HTML page titled "What Can JavaScript Do?". The page contains a paragraph stating "JavaScript can change HTML content." and a button labeled "Click Me!". Below the browser window is the developer tools interface.

Elements Tab:

```
<!DOCTYPE html>
...<html> == $0
<head></head>
<body data-new-gr-c-s-check-loaded="14.982.0">
  <h2>What Can JavaScript Do?</h2>
  <p id="demo">JavaScript can change HTML content.</p>
  <button type="button" onclick="document.getElementById("demo").innerHTML = "Hello JavaScript!">
    Click Me!
  </button>
  <!-- Code injected by live-server -->
  ><script type="text/javascript">...</script>
</body>
</html>
```

Styles Panel:

The Styles panel displays the following CSS rules:

```
element.style {
}
html {
  display: block;
}
```

A visual representation of the element's bounding box is shown, divided into margin, border, and padding layers. The total dimensions are 980 x 130.812.

The screenshot shows a browser window displaying a simple HTML page titled "What Can JavaScript Do?". The page contains the text "Hello JavaScript!" and a button labeled "Click Me!". Below the browser window is the developer tools interface.

Elements Tab:

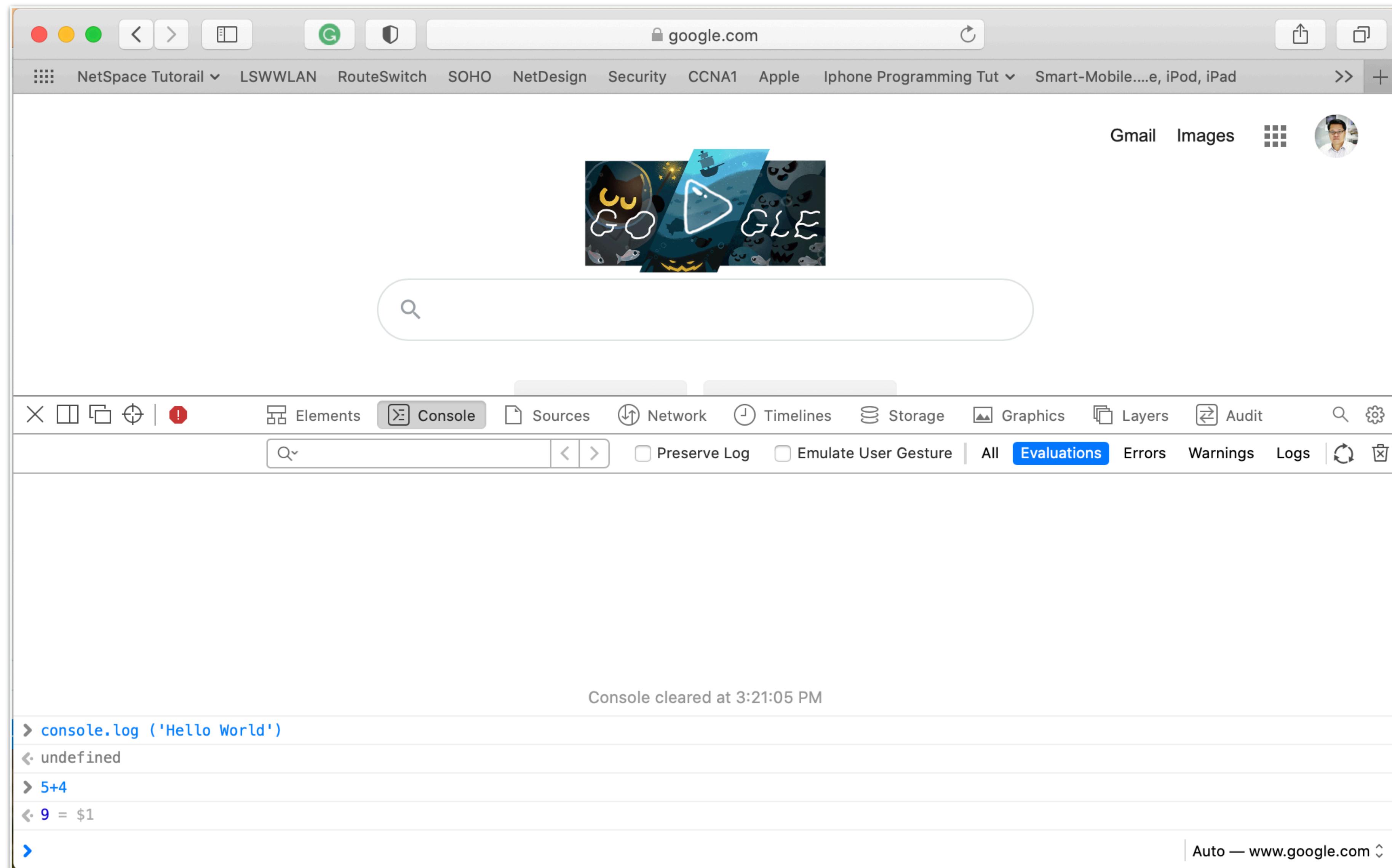
```
<!DOCTYPE html>
...<html> == $0
<head></head>
<body data-new-gr-c-s-check-loaded="14.982.0">
  <h2>What Can JavaScript Do?</h2>
  <p id="demo">Hello JavaScript!</p>
  <button type="button" onclick="document.getElementById("demo").innerHTML = "Hello JavaScript!">
    Click Me!
  </button>
  <!-- Code injected by live-server -->
  ><script type="text/javascript">...</script>
</body>
</html>
```

Styles Panel:

The Styles panel displays the CSS rules applied to the page:

```
element.style {
}
html {
  user agent stylesheet
  display: block;
}
```

A visual representation of the element's bounding box is shown at the bottom right, with dimensions of 980 x 130.812.



SETUP AND HELLO WORLD



Node.js® is a JavaScript runtime built on [Chrome's V8 JavaScript engine](#).

#BlackLivesMatter

Download for macOS (x64)

14.15.0 LTS

Recommended For Most Users

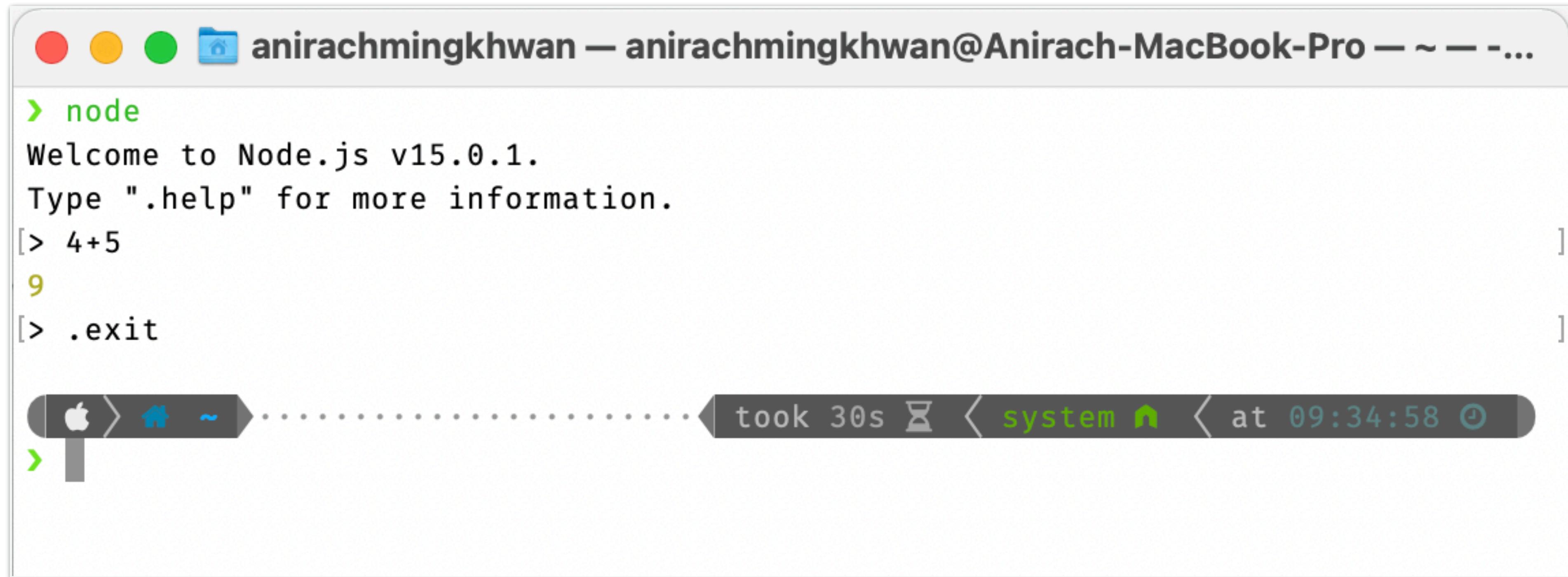
15.0.1 Current

Latest Features

[Other Downloads](#) | [Changelog](#) | [API Docs](#) [Other Downloads](#) | [Changelog](#) | [API Docs](#)

Or have a look at the [Long Term Support \(LTS\) schedule](#).

<https://nodejs.org/en/>



The screenshot shows a macOS terminal window. At the top, there are three colored dots (red, yellow, green) followed by the user information: anirachmingkhwan — anirachmingkhwan@Anirach-MacBook-Pro — ~ — -... Below this, the command `> node` is entered, followed by the Node.js welcome message: "Welcome to Node.js v15.0.1. Type ".help" for more information." A calculation `[> 4+5` is performed, resulting in `9`. Finally, the command `[> .exit` is run to exit the Node.js REPL. The bottom status bar of the terminal shows the path `..... took 30s ✘ < system 🏠 < at 09:34:58 ⏲`.

Nvm for Mac

```
curl -o- https://raw.githubusercontent.com/nvm-sh/nvm/v0.36.0/install.sh | zsh
```

GIT INSTALL

The screenshot shows the official Git website at <https://git-scm.com/>. The main navigation bar includes links for About, Documentation, Downloads, and Community. A sidebar on the left promotes the "Pro Git book". The central content area features a large "Downloads" section with links for Mac OS X, Windows, and Linux/Unix. To the right, a prominent iMac monitor displays a teal-themed window for the "Latest source Release 2.29.2" with a "Download 2.27.0 for Mac" button. Below the monitor, sections for "GUI Clients" and "Logos" are visible.

git --fast-version-control

About

Documentation

Downloads

GUI Clients
Logos

Community

The entire [Pro Git book](#) written by Scott Chacon and Ben Straub is available to [read online for free](#). Dead tree versions are available on [Amazon.com](#).

Downloads

[Mac OS X](#) [Windows](#)
 [Linux/Unix](#)

Older releases are available and the [Git source repository](#) is on GitHub.

GUI Clients

Git comes with built-in GUI tools (`git-gui`, `gitk`), but there are several third-party tools for users looking for a platform-specific experience.

[View GUI Clients →](#)

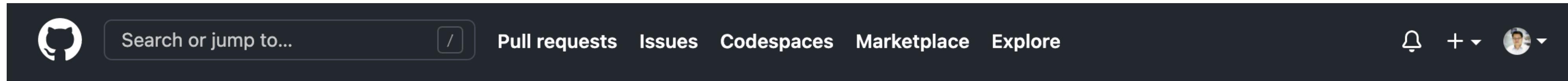
Logos

Various Git logos in PNG (bitmap) and EPS (vector) formats are available for use in online and print projects.

[View Logos →](#)

<https://git-scm.com/downloads>

The screenshot shows the GitHub sign-up interface. At the top, there's a navigation bar with links for "Why GitHub?", "Team", "Enterprise", "Explore", "Marketplace", and "Pricing". On the right side of the header are "Search GitHub", a search icon, "Sign in", and "Sign up". The main content area features a large, bold heading "Built for developers" followed by a descriptive paragraph: "GitHub is a development platform inspired by the way you work. From open source to business, you can host and review code, manage projects, and build software alongside 50 million developers." To the right of this text is a sign-up form with fields for "Username", "Email", and "Password". Below these fields is a note: "Make sure it's at least 15 characters OR at least 8 characters including a number and a lowercase letter. [Learn more.](#)". A large green button labeled "Sign up for GitHub" is centered below the password field. At the bottom of the sign-up form, there's a small note: "By clicking 'Sign up for GitHub', you agree to our [Terms of Service](#) and [Privacy Statement](#). We'll occasionally send you account related emails." In the bottom right corner of the slide, there's a decorative illustration of three GitHub cat avatars wearing hard hats and safety vests, standing next to a large satellite dish antenna.

**Initialize this repository with:**

Skip this step if you're importing an existing repository.

 Add a README file

This is where you can write a long description for your project. [Learn more.](#)

The screenshot shows a GitHub repository page for the user 'Anirach' named 'JavaXcript'. The repository has 1 branch and 0 tags. The 'Code' tab is selected. A commit from 'Anirach' titled 'Initial commit' is shown, with the commit hash '5edfc35' and status 'now'. The file 'README.md' is listed under 'Initial commit'. A modal window is open over the repository page, showing the content of the 'README.md' file. The modal title is 'JavaXcript' and the content reads: 'To collect all the code of JavaScript Class'.

Anirach / JavaXcript

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main ▾ 1 branch 0 tags Go to file Add file ▾ Code ▾

Anirach Initial commit 5edfc35 now 1 commit

README.md Initial commit now

README.md

JavaXcript

To collect all the code of JavaScript Class

About To collect all the code of JavaScript Class

Readme

Releases No releases published Create a new release

Packages No packages published Publish your first package

GITFLOW



 Visual Studio Code Docs Updates Blog API Extensions FAQ Learn

Version 1.50 is now available! Read about the new features and fixes from September.

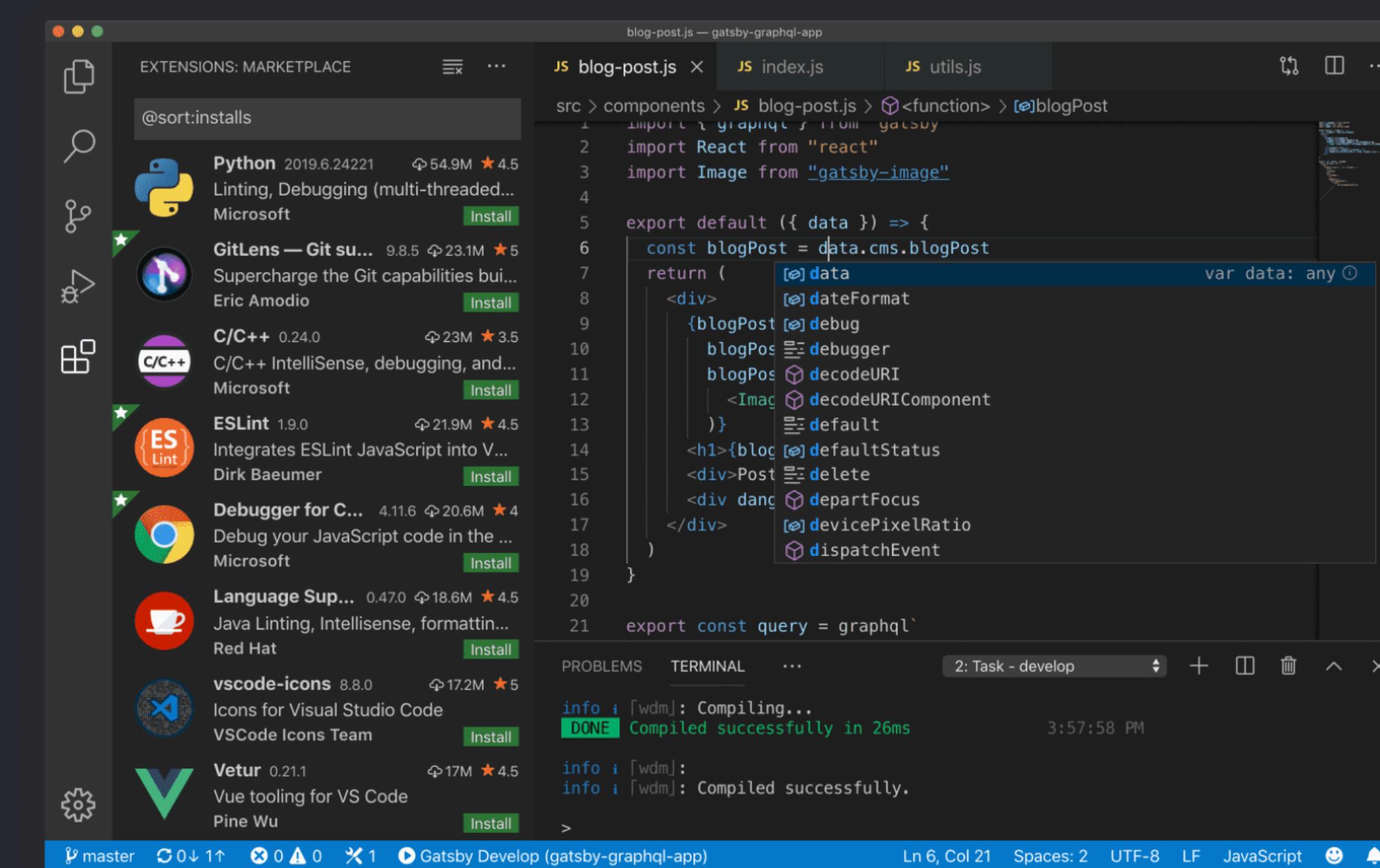
Code editing. Redefined.

Free. Built on open source. Runs everywhere.

[Download for Mac](#) Stable Build

Other platforms and Insiders Edition

By using VS Code, you agree to its license and privacy statement.



The screenshot shows the Visual Studio Code interface. On the left, there's a sidebar with icons for file operations like copy, search, and share. The main area has tabs for 'blog-post.js', 'index.js', and 'utils.js'. The code editor displays a snippet of JavaScript related to a blog post. Below the code editor is a 'PROBLEMS' panel showing compilation logs. At the bottom, there's a status bar with information like 'master', 'Gatsby Develop (gatsby-graphql-app)', and various status icons.

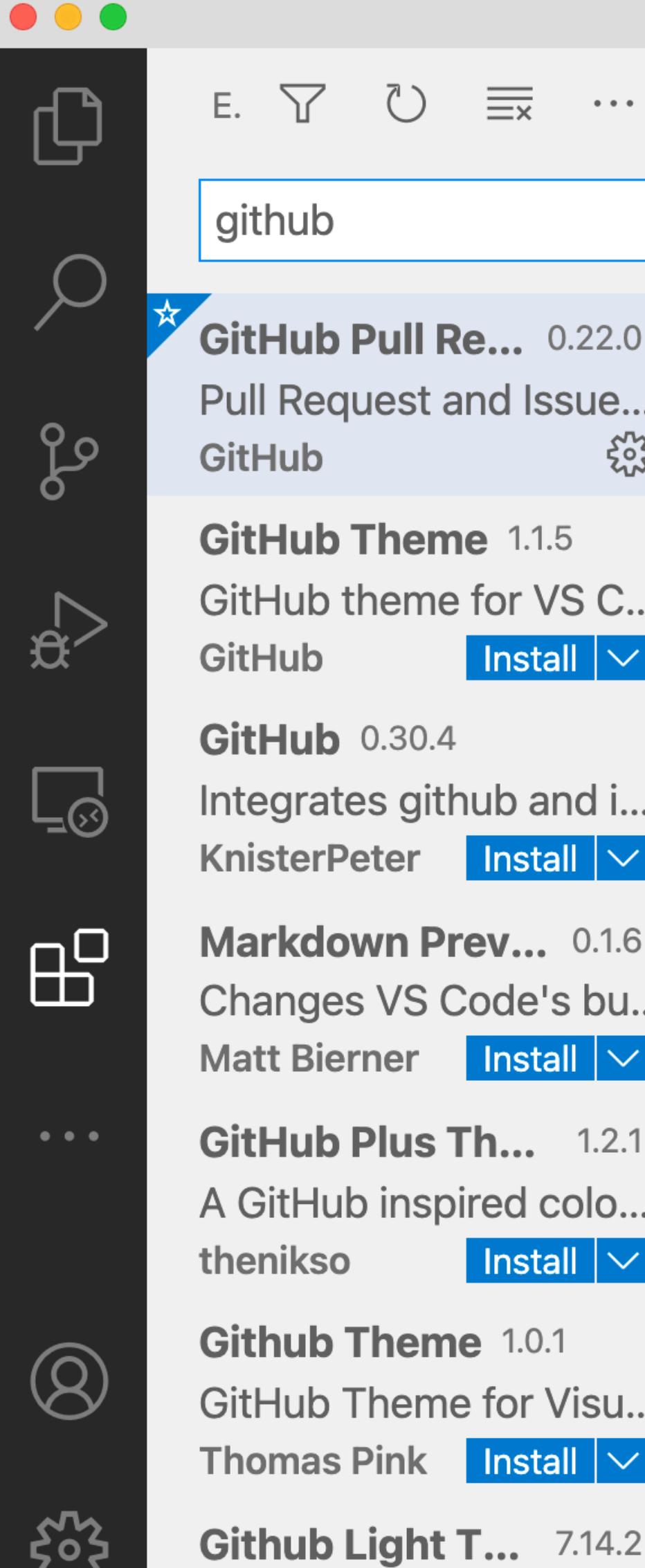
 IntelliSense

 Run and Debug

 Built-in Git

 Extensions

Extension: GitHub Pull Requests and Issues — JavaScript



The screenshot shows the Visual Studio Code Extension Marketplace interface. On the left, there's a sidebar with various icons for file operations like Open, Save, and Find. The main area has a search bar at the top with the text 'github'. Below the search bar, a list of extensions is displayed:

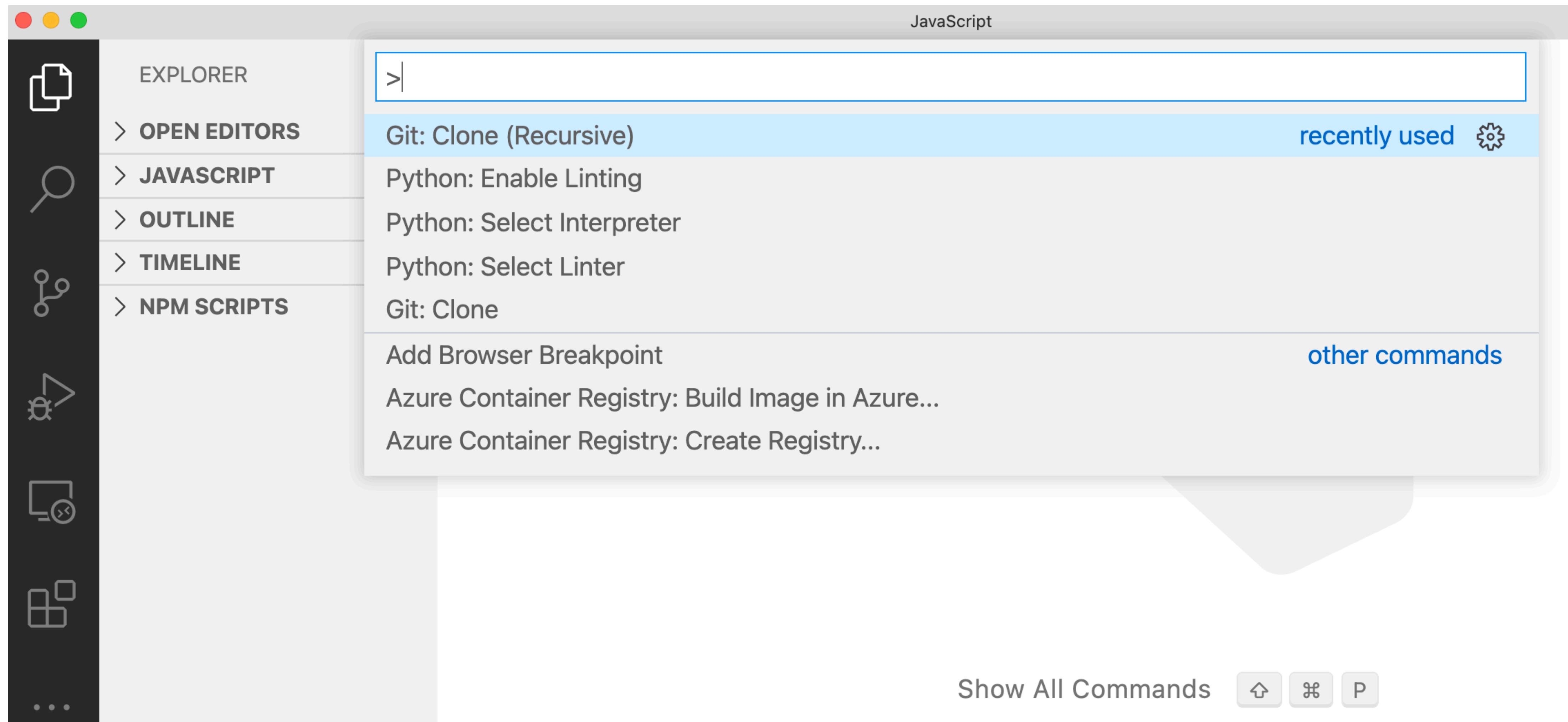
- GitHub Pull Re...** 0.22.0 - Pull Request and Issue... by GitHub. Status: Enabled. Install button.
- GitHub Theme** 1.1.5 - GitHub theme for VS C... by GitHub. Status: Enabled. Install button.
- GitHub** 0.30.4 - Integrates github and i... by KnisterPeter. Status: Enabled. Install button.
- Markdown Prev...** 0.1.6 - Changes VS Code's bu... by Matt Bierner. Status: Enabled. Install button.
- GitHub Plus Th...** 1.2.1 - A GitHub inspired colo... by thenikso. Status: Enabled. Install button.
- Github Theme** 1.0.1 - GitHub Theme for Visu... by Thomas Pink. Status: Enabled. Install button.
- Github Light T...** 7.14.2 - Try this theme if others... by (no author listed). Status: Enabled. Install button.

The extension details page for 'GitHub Pull Requests and Issues' is open. The title is 'GitHub Pull Requests and Issues' with the identifier 'github.vscode-pull-reque'. It shows the following details:

- GitHub | 1,260,204 | ★★★★☆ | Repository | License | v0.22.0
- Pull Request and Issue Provider for GitHub
- Status: Enabled | Uninstall | Disable | This extension is enabled globally.
- This extension is recommended because of the current workspace configuration

Below the status bar, there are tabs for Details, Feature Contributions, and Changelog. The Details tab is active, showing a badge for Azure Pipelines succeeded. A callout box highlights the feature: "Review and manage your GitHub pull requests and issues directly in VS Code". The description of the extension states: "This extension allows you to review and manage GitHub pull requests and issues in Visual Studio Code. The support includes:" followed by a bulleted list of features:

- Authenticating and connecting VS Code to GitHub.
- Listing and browsing PRs from within VS Code.
- Reviewing PRs from within VS Code with in-editor commenting.
- Validating PRs from within VS Code with easy checkouts.
- Terminal integration that enables JIIs and CIIs to co-exist.



The screenshot shows a GitHub repository page for the user 'Anirach' named 'JavaXcript'. The repository has 1 branch and 0 tags. The 'Code' tab is selected. A context menu is open over the repository name, showing options like 'Clone', 'Open with Codespaces', 'Open with GitHub Desktop', and 'Download ZIP'. The 'Clone' section displays the HTTPS URL: <https://github.com/Anirach/JavaXcri>. The repository description is 'To collect all the code of JavaScript Class'. The page also includes sections for 'About', 'Readme', 'Releases', and 'Packages'.

Anirach / JavaXcript

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags

Anirach Initial commit

README.md Initial commit

JavaXcript

To collect all the code of JavaScript Class

Clone
HTTPS SSH GitHub CLI
<https://github.com/Anirach/JavaXcri>

Use Git or checkout with SVN using the web URL.

Open with Codespaces

Open with GitHub Desktop

Download ZIP

About

To collect all the code of JavaScript Class

Readme

Releases

No releases published

Create a new release

Packages

No packages published

Publish your first package

The screenshot shows the Visual Studio Code (VS Code) interface. The left sidebar (Explorer) lists files and folders. The main area (Editor) displays a JavaScript file named 'test.js'.

EXPLORER

- > OPEN EDITORS
- < JAV... ...
- < Lecture-01-Intr... 1
 - <> Hello.html
 - <> index.html
 - JS** index.js
 - <> jscan.html
 - <> jsHello.html
 - pic_bulboff.gif
 - pic_bulbon.gif
 - JS** test.js M
 - <> tryjs_lightbulb.html
 - <> xx.html
- > Lecture-02-DataTypes

test.js — JavaScript

JS test.js X

Lecture-01-Introduction > **JS** test.js

```
1 | console.log("Hello World")
2 | 
```

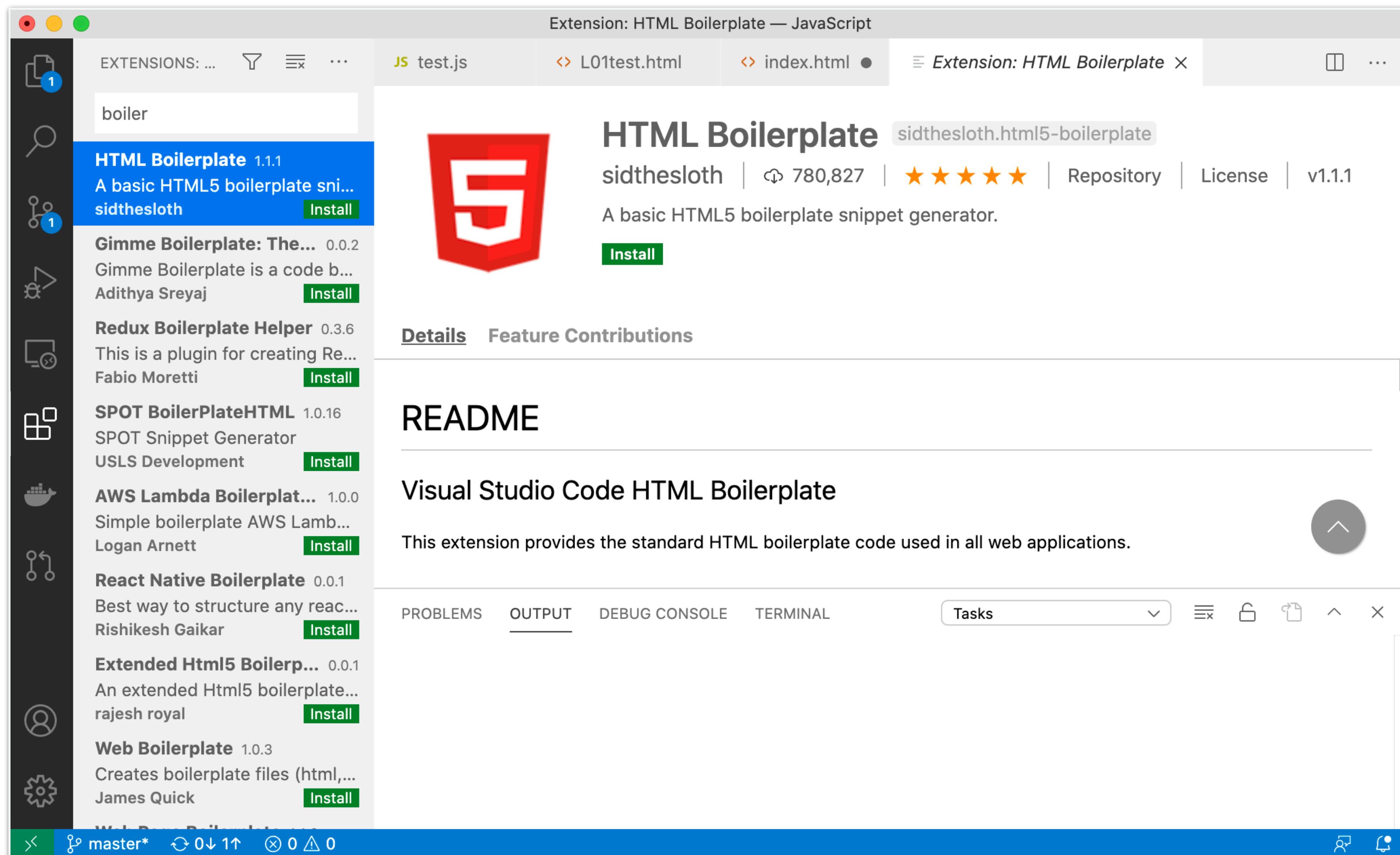
The screenshot shows the Visual Studio Code (VS Code) interface. The left sidebar has a dark theme with icons for Explorer, Search, Problems, Outline, and Timeline. The main area shows an 'EXPLORER' view with 'OPEN EDITORS' and a 'JAVASCRIPT' folder containing 'Lecture-01 Intro...', 'index.html', and 'test.js'. The 'test.js' file is open in the editor, displaying the following code:

```
1 console.log('Hello World')
```

The terminal at the bottom shows the output of running the script:

```
(base) anirachmingkhwan@Anirach-MacBook-Pro Lecture-01 Introduction % node --version  
v15.0.1  
(base) anirachmingkhwan@Anirach-MacBook-Pro Lecture-01 Introduction % node test.js  
Hello World  
(base) anirachmingkhwan@Anirach-MacBook-Pro Lecture-01 Introduction %
```

The status bar at the bottom indicates the file is 'master*' and shows line 2, column 1, spaces: 4, UTF-8, LF, JavaScript, port 5500.



The screenshot shows the Visual Studio Code (VS Code) interface. The title bar reads "index.html — JavaScript". The left sidebar has a dark theme with various icons for file operations like Source Control, Search, and Issues. The main editor area displays the following HTML code:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7 </head>
8 <body>
9
10 </body>
11 </html>
12
```

The status bar at the bottom shows "master" in the bottom-left corner and "Ln 12, Col 1" along with other file details in the bottom-right corner.

The screenshot shows the Visual Studio Code interface with the extension marketplace open. The left sidebar lists various extensions, and the main area displays the details for the 'Prettier - Code formatter' extension.

Prettier - Code formatter by esbenp.prettier-vscode

Prettier | 9,075,321 | ★★★★☆ | Repository | License | v5.7.1

Code formatter using prettier

Details Feature Contributions Changelog

Prettier Formatter for Visual Studio Code

Prettier is an opinionated code formatter. It enforces a consistent style by parsing your code and re-printing it with its own rules that take the maximum line length into account, wrapping code when necessary.

JavaScript · TypeScript · Flow · JSX · JSON
CSS · SCSS · Less
HTML · Vue · Angular
GraphQL · Markdown · YAML
Your favorite language?

Main passing downloads 70M installs 9.1M code style prettier follow prettier 16k

Installation

Extension: ESLint — JavaScript

EXTENS... ... JS test.js < index.html < tryjs_lightbulb.html Extension: ESLint < Hello.html JS testdata.js ...

ES

ESLint dbaeumer.vscode-eslint

Dirk Baeumer | 11,544,478 | ★★★★★ | Repository | License | v2.1.13

Integrates ESLint JavaScript into VS Code.

Disable **Uninstall** This extension is enabled globally.

This extension is recommended based on the files you recently opened. Ignore Recommendation

[Details](#) [Feature Contributions](#) [Changelog](#)

VS Code ESLint extension

 Azure Pipelines succeeded

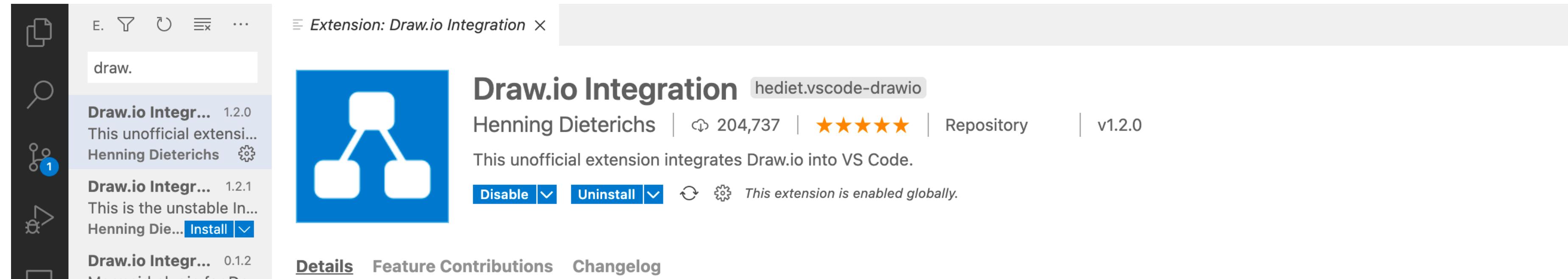
Integrates [ESLint](#) into VS Code. If you are new to ESLint check the [documentation](#).

The extension uses the ESLint library installed in the opened workspace folder. If the folder doesn't provide one the extension looks for a global install version. If you haven't installed ESLint either locally or globally do so by running `npm install eslint` in the workspace folder for a local install or `npm install -g eslint` for a global install.

On new folders you might also need to create a `.eslintrc` configuration file. You can do this by either using the VS Code command [Create ESLint configuration](#) or by running the `eslint` command in a terminal. If you have installed ESLint globally (see above) then run `eslint --init` in a terminal. If you have installed ESLint locally then run `.\node_modules\.bin\eslint --init` under Windows and `./node_modules/.bin/eslint --init` under Linux and Mac.



Extension: Draw.io Integration



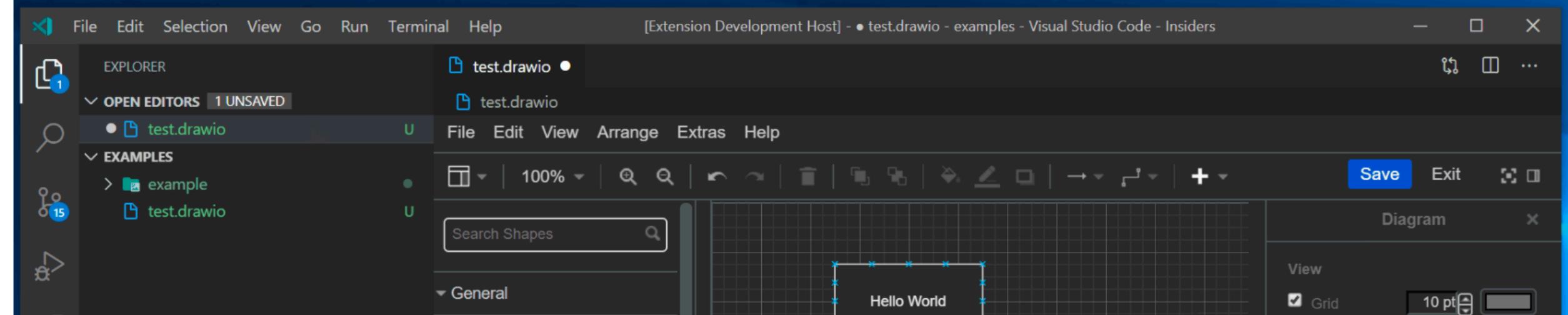
Draw.io VS Code Integration

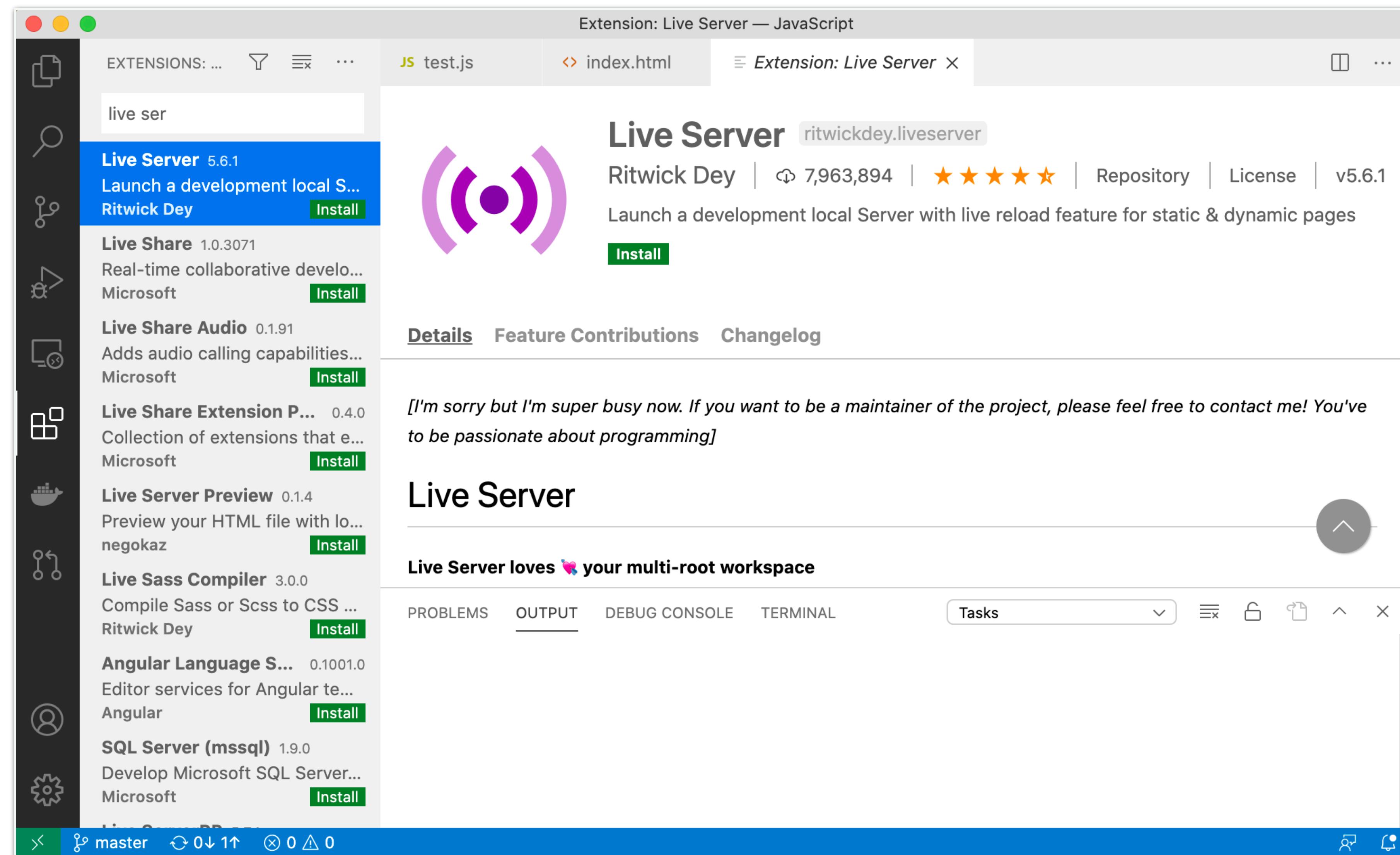
This unofficial extension integrates [Draw.io](#) (also known as [diagrams.net](#)) into VS Code.

Features

- Edit `.drawio`, `.dio`, `.drawio.svg` or `.drawio.png` files in the Draw.io editor.
 - To create a new diagram, simply create an empty `*.drawio`, `*.drawio.svg` or `*.drawio.png` file and open it.
 - `.drawio.svg` are valid `.svg` files that can be embedded in Github readme files! No export needed.
 - `.drawio.png` are valid `.png` files! No export needed. You should use `.svg` though whenever possible - they look much better!
 - To convert between different formats, use the `Draw.io: Convert To...` command.
- Uses an offline version of Draw.io by default.
- Multiple Draw.io themes are available.
- Use liveshare to collaboratively edit a diagram with others.
- Nodes/edges can be linked with code spans.

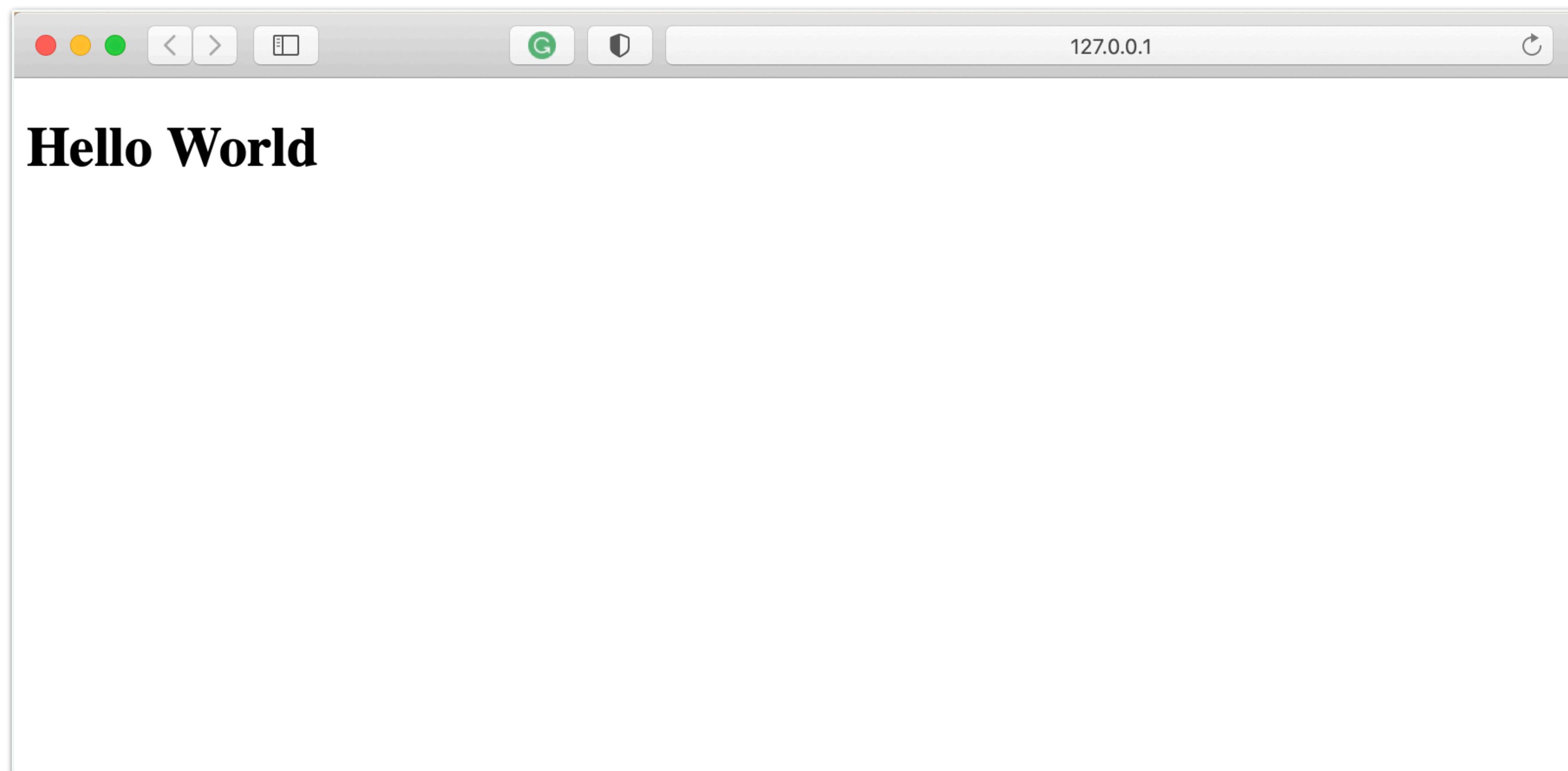
Demo

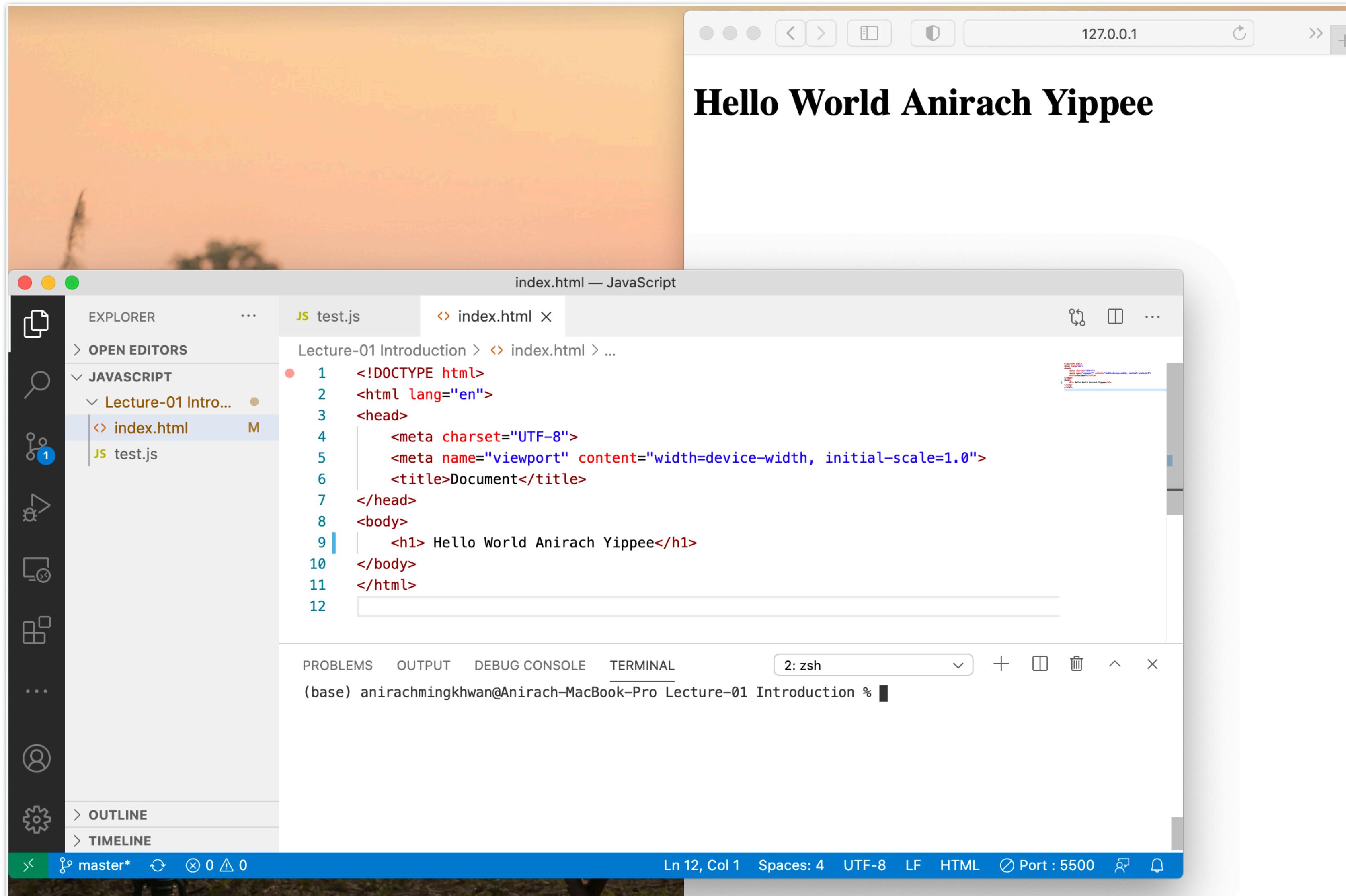




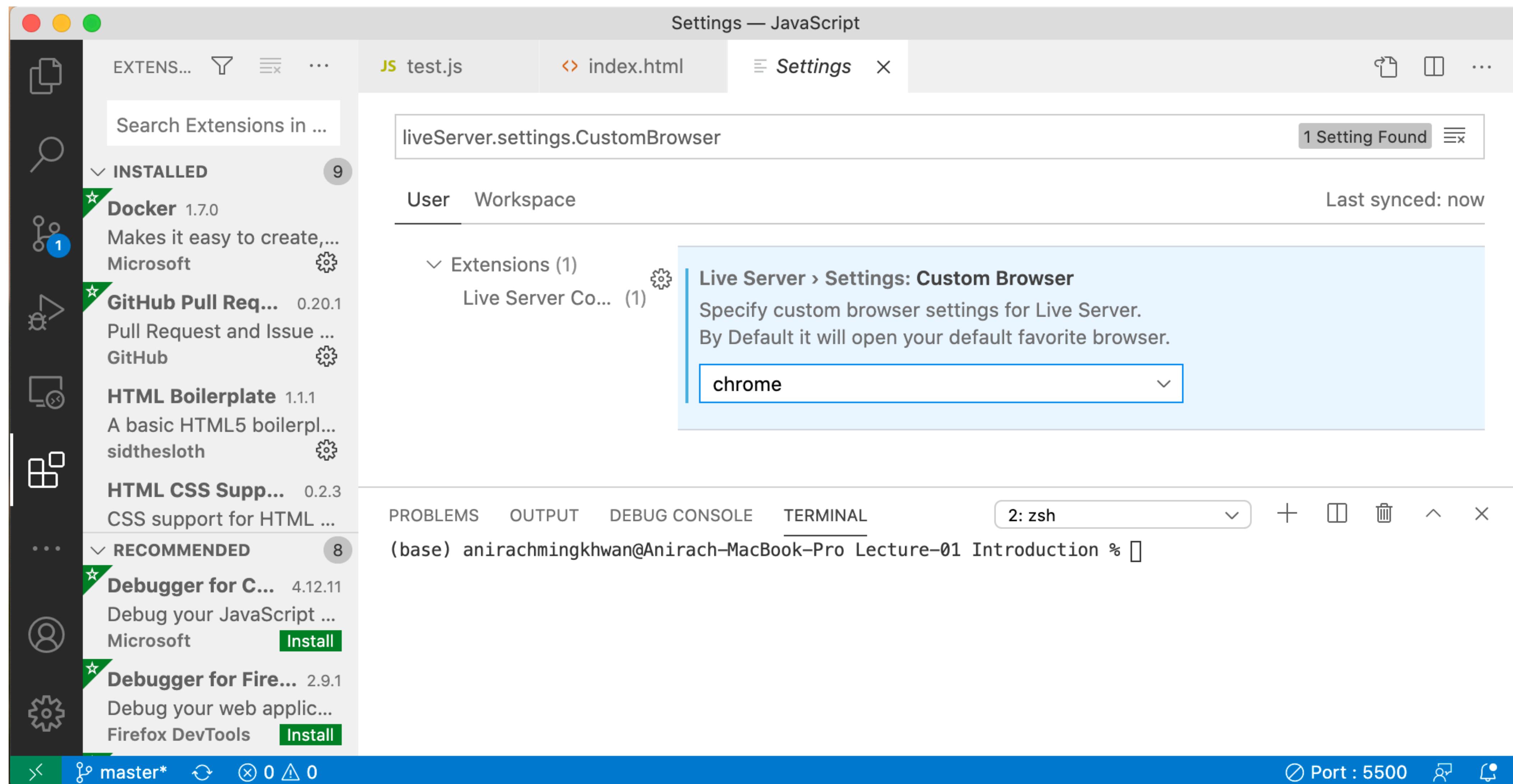
Lecture-01 Introduction >  index.html > ...

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4  |   <meta charset="UTF-8">
5  |   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6  |   <title>Document</title>
7  </head>
8  <body>
9  |   <h1> Hello World</h1>
10 </body>
11 </html>
12 
```





Code Save and See the changing....



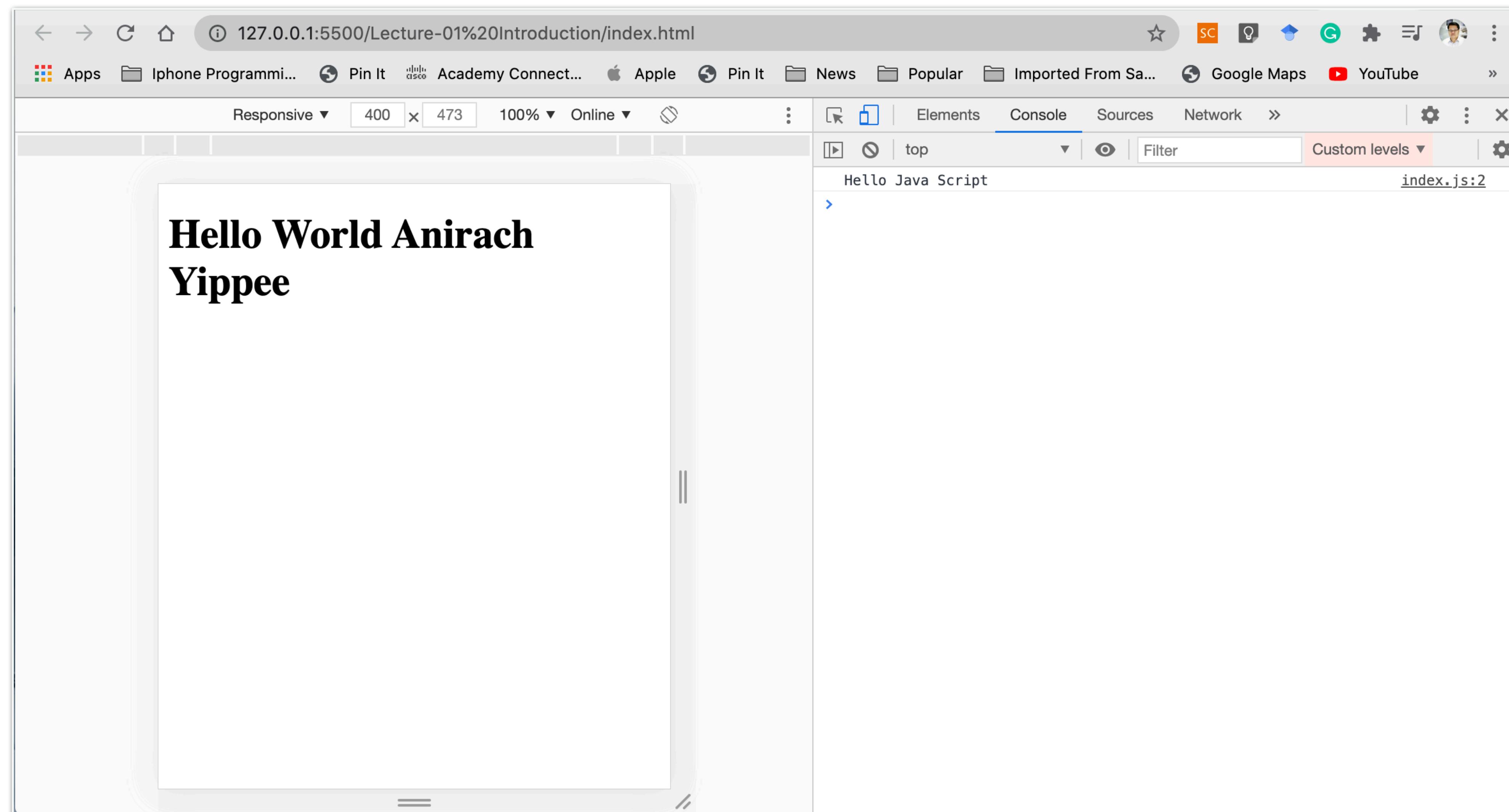
JAVASCRIPT IN BROWSERS

The screenshot shows the Visual Studio Code (VS Code) interface. The title bar reads "index.html — JavaScript". The left sidebar has icons for Explorer, Open Editors, Search, Issues (with 1), and Outline/Timeline. The "OPEN EDITORS" section shows "test.js" and "index.html" under the "JAVASCRIPT" category. The main editor area displays the following code:

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Document</title>
7  </head>
8  <body>
9      <h1> Hello World Anirach Yippee</h1>
10     <script>
11         //My First JavaScript
12         console.log('Hello Java Script');
13     </script>
14  </body>
15  </html>
16
```

The terminal at the bottom shows the command "(base) anirachmingkhwan@Anirach-MacBook-Pro Lecture-01 Introduction %". The status bar at the bottom indicates "Ln 12, Col 42" and "Spaces: 4".

Embedded JavaScript



SEPARATION OF CONCERNS

The screenshot shows the Visual Studio Code (VS Code) interface. The title bar indicates the file is "index.js — JavaScript". The Explorer sidebar on the left shows a project structure under "JAVA SCRIPT" with files "index.html" and "index.js" selected. The main editor area displays the following code:

```
//My First JavaScript
console.log('Hello Java Script');
```

The terminal at the bottom shows the output of the code execution:

```
(base) anirachmingkhwan@Anirach-MacBook-Pro Lecture-01 Introduction %
```

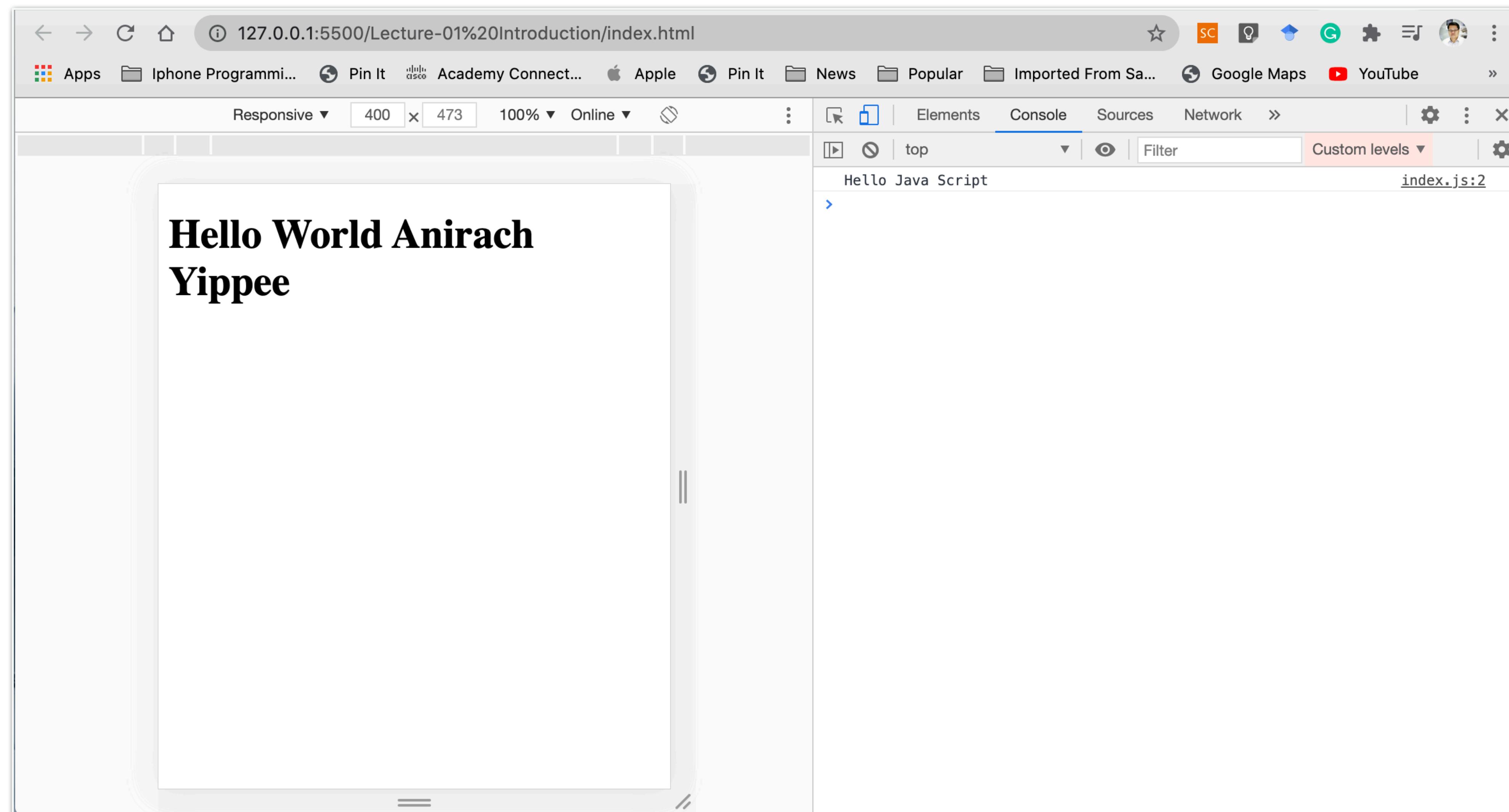
The status bar at the bottom provides information about the current file: "Ln 2, Col 34", "Spaces: 4", "UTF-8", "LF", "JavaScript", and "Port : 5500".



The screenshot shows a code editor interface with three tabs at the top: 'JS test.js' (disabled), 'index.html' (selected, indicated by a black dot), and 'JS index.js'. Below the tabs, the file structure is shown as 'Lecture-01 Introduction > index.html > ...'. The 'index.html' tab contains the following code:

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Document</title>
7  </head>
8  <body>
9      <h1> Hello World Anirach Yippee</h1>
10     <script src="index.js"></script>
11  </body>
12  </html>
13 
```

External JavaScript .js file



The screenshot shows a development environment with the following components:

- Code Editor (index.html — JavaScript):** Displays the HTML code for "index.html".

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4  |   <meta charset="UTF-8">
5  |   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6  |   <title>Document</title>
7  </head>
8  <body>
9  |   <h1> Hello World Anirach</h1>
10 |   <script src="index.js"></script>
11 </body>
12 </html>
13
```
- Code Editor (index.js):** Displays the JavaScript code for "index.js".

```
Hello Java Script
```
- Browser Preview:** Shows the rendered HTML output with the heading "Hello World Anirach".
- Console Tab:** Shows the output "Hello Java Script" from the console.
- Bottom Status Bar:** Shows file information: master*, Ln 13, Col 1, Spaces: 4, UTF-8, LF, HTML, Port : 5500.

JAVASCRIPT CAN DO !

Lecture-01 Introduction > [tryjs_lightbulb.html](#) > ...

```
1  <!DOCTYPE html>
2  <html>
3  |  <body>
4  |  |  <h2>What Can JavaScript Do?</h2>
5  |
6  |  <p>JavaScript can change HTML attribute values.</p>
7  |
8  |  <p>
9  |  |  In this case JavaScript changes the value of the src (source) attribute of
10 |  |  an image.
11 |  </p>
12 |
13 <button onclick="document.getElementById('myImage').src='pic_bulbon.gif'>
14 |  Turn on the light
15 </button>
16 |
17 
18 |
19 <button onclick="document.getElementById('myImage').src='pic_bulboff.gif'>
20 |  Turn off the light
21 </button>
22 </body>
23 </html>
24 
```

The screenshot shows a web browser window with the URL `127.0.0.1:5500/Lecture-01 Intro`. The main content area displays the heading **What Can JavaScript Do?** followed by the text: "JavaScript can change HTML attribute values. In this case JavaScript changes the value of the src (source) attribute of an image." Below the text is a large, semi-transparent image of a lit lightbulb. At the bottom of the slide, there are two rectangular buttons: "Turn on the light" on the left and "Turn off the light" on the right.

THANK YOU

- Introduction to JavaScript
- Setting up Coding Environment
- JavaScript in Browsers