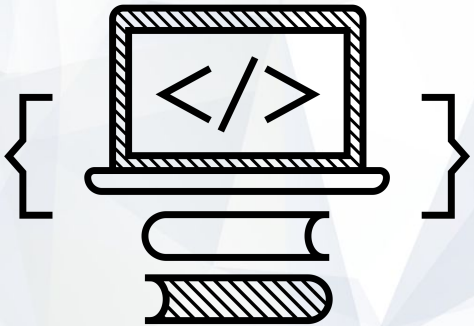
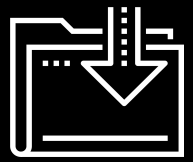


JavaScript

Coding Boot Camp

Module 03



Today's Goals

By the end of today's class you should be able to:

01 Identify and declare variables containing primitive data types.

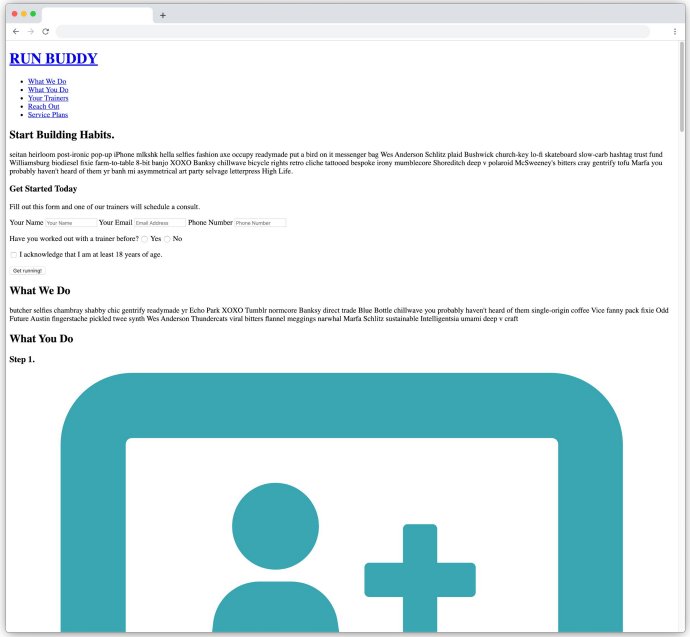
02 Explain and implement comparison and logical operators.

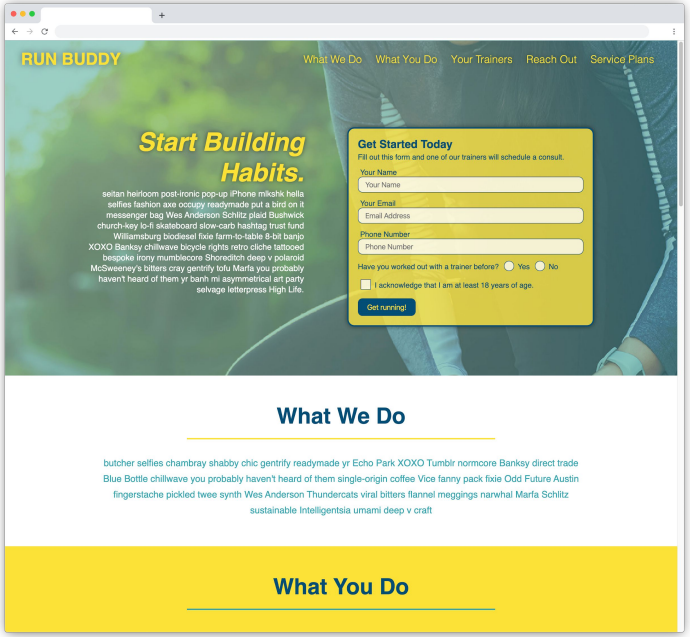
03 Write conditional statements using if...else

What do we use HTML and CSS for?

HTML & CSS: Languages of the Web

We use HTML to create and organize content on a page and CSS to apply styles, layout, and even animation to that content.

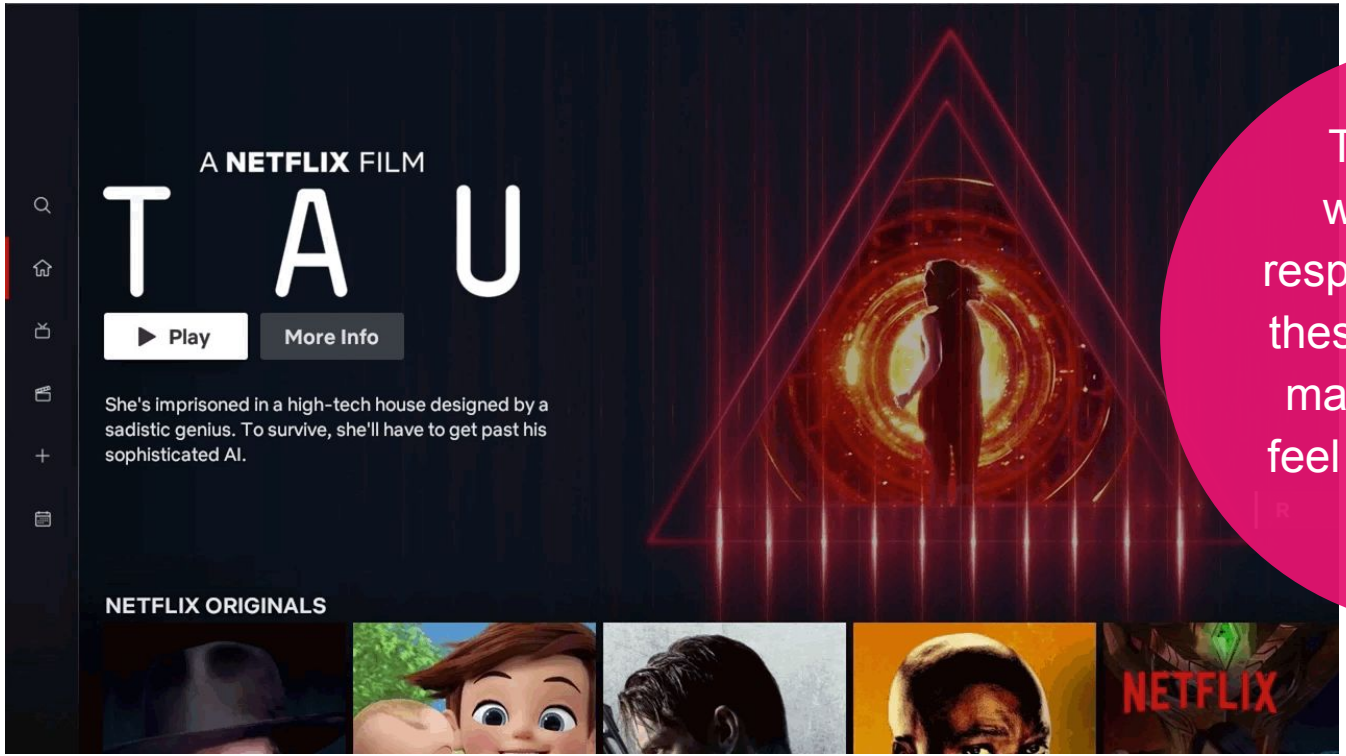




What are some examples of how users interact with a webpage?

Interaction on Webpages

We interact with webpages in many ways on a daily basis.



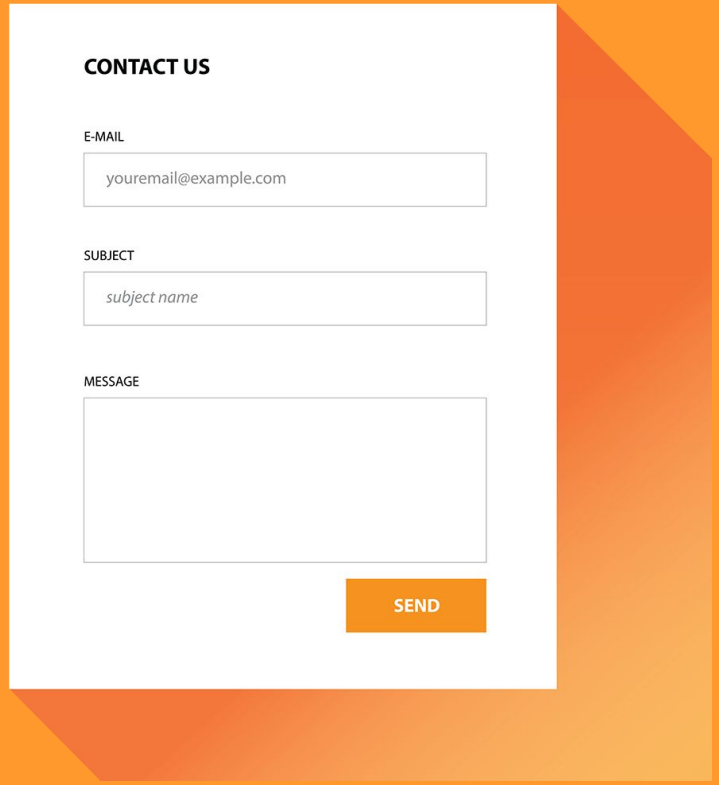
Typically the webpage will respond or react to these interactions, making the page feel more dynamic and alive.

(Netflix: See What's Next ... on TV)

Interaction Examples

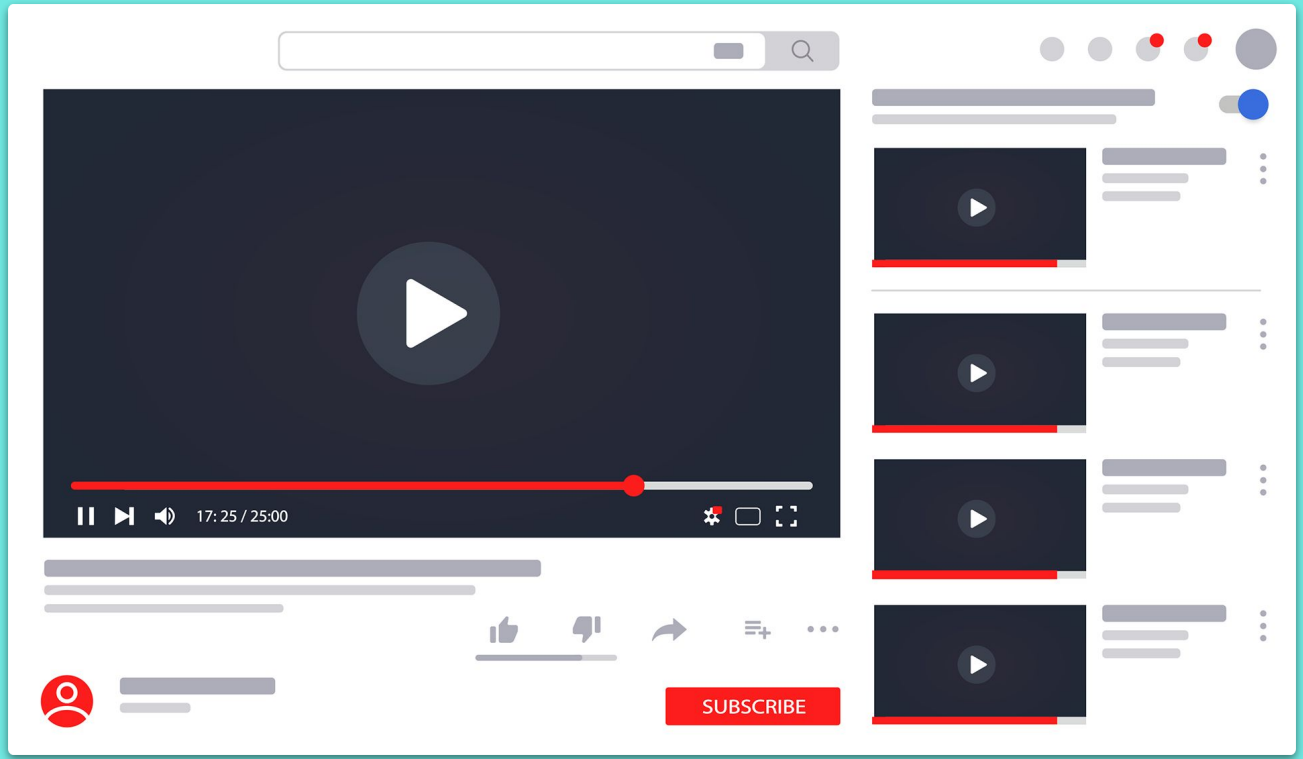
Interaction Examples

Submitting an HTML form to comment on an article.



Interaction Examples

Playing audio or video at the press of a button on the page.



Interaction Examples

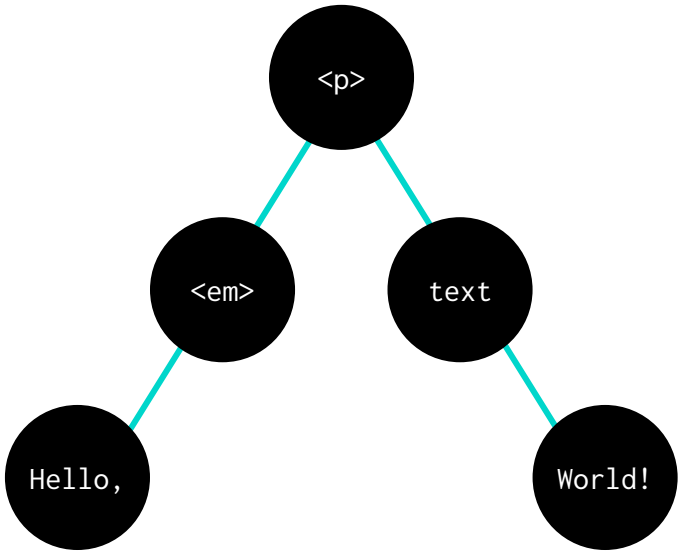
Using the device’s camera or microphone to enable a conversation.

Can we achieve these types of interactions using only HTML and CSS?

HTML & CSS ≠ Functional

While HTML and CSS offer some great built-in features that give users a sense of interaction or functionality on a site, they cannot handle the complex tasks that occur in response to these interactions.

HTML (Structure)



CSS (Presentation)

Hello, World!

Hello, World!

Hello, World!

For that reason, web developers utilize another programming language specifically designed for these tasks.

JavaScript is a programming language originally created to be run in the browser with the intention of enhancing a webpage's capabilities. Today, nearly every page we visit on the internet depends heavily on JavaScript to work.

JavaScript

While HTML and CSS handle content and design, JavaScript handles the overall functionality of the application to make it feel more alive and dynamic.

HTML	CSS	JavaScript
Used to write content. 	Used to format content. 	Used to create dynamic web applications that take in user inputs, change what's displayed to users, animate elements, and much more. 

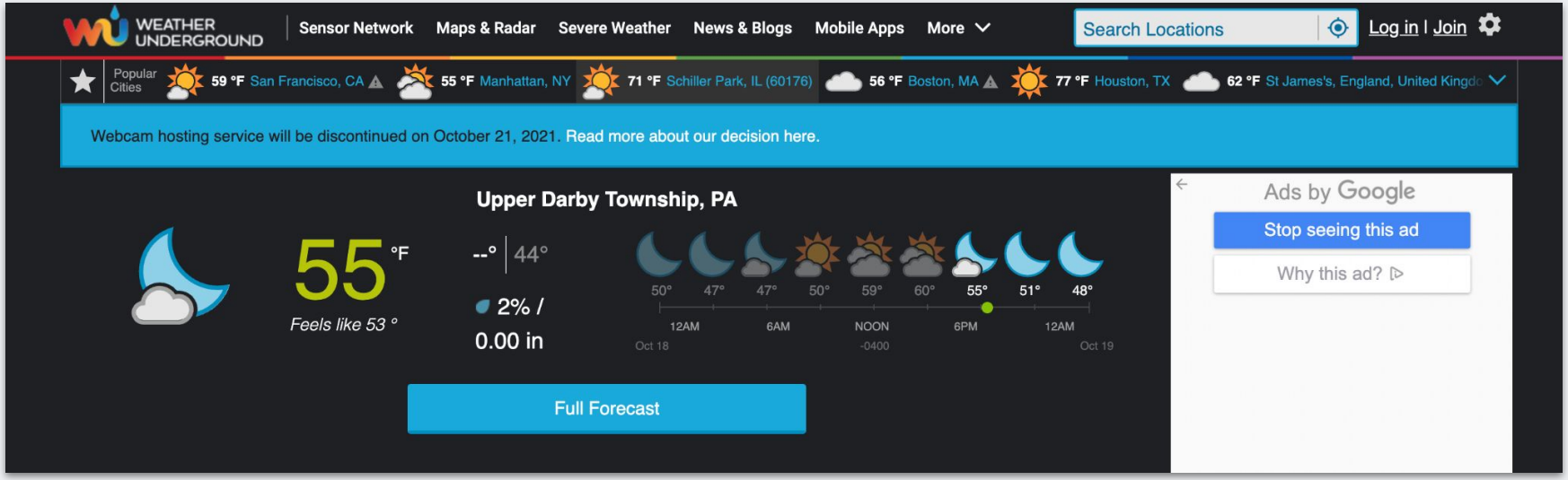
In what ways do we use JavaScript?

Front-end developers use JavaScript primarily to dynamically affect a webpage to enhance the user's experience.
No other programming language can run in the browser, so JavaScript is a must-have skill for web developers.

JavaScript Examples

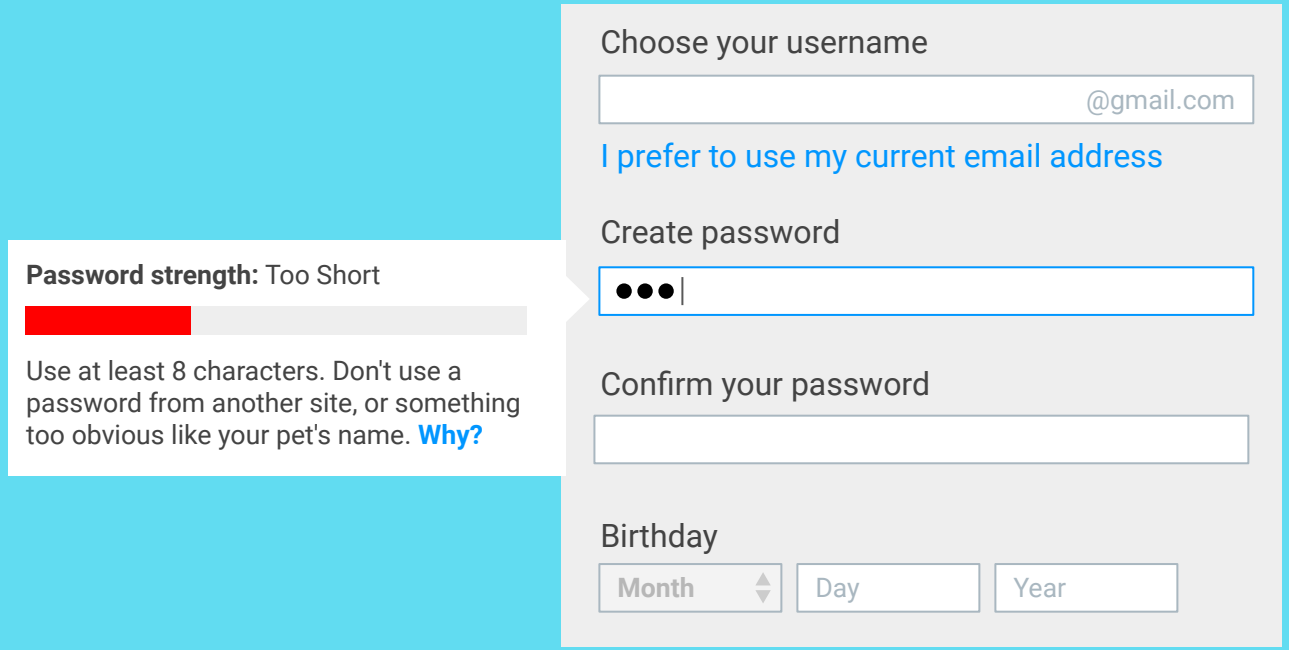
JavaScript Examples

Fetching weather data to display and update on the page.



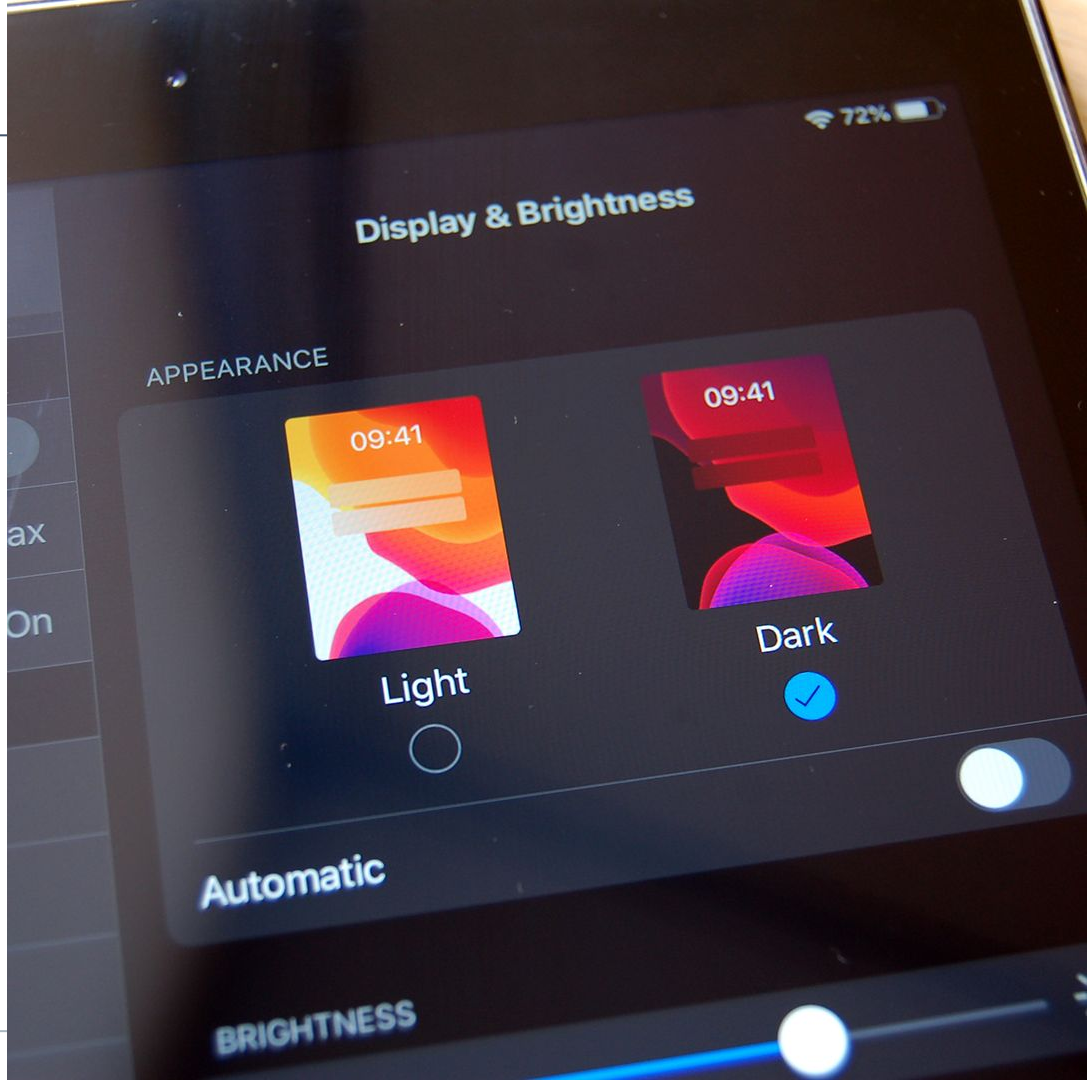
JavaScript Examples

Informing users that they are missing information on a form.



JavaScript Examples

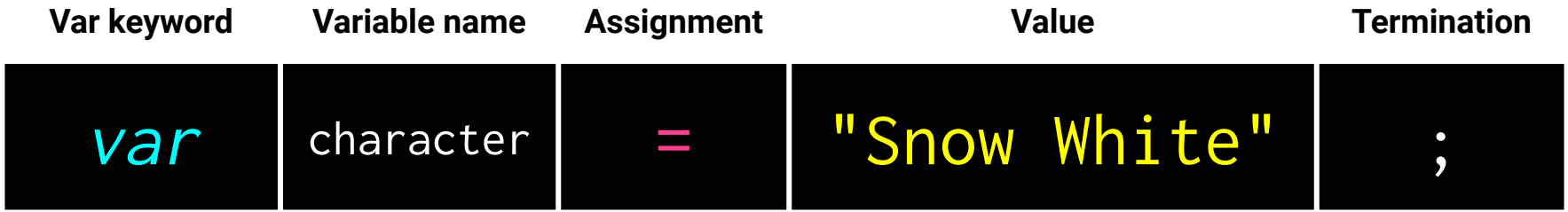
Remembering a user's preference between light and dark mode themes.



How can we learn to use JavaScript?

JavaScript

Unlike some other programming languages, JavaScript doesn’t force developers to write code in a specific way. As a result, JavaScript might seem a bit complicated at first, but it can make development work feel incredibly fun and creative as you get to use it more and more.



How to Learn JavaScript

Try some of the following techniques to learn JavaScript:

Read the docs and practice with the provided examples.

Reverse-engineer finished code to see how it was created.

Build something from scratch.

Debug a broken app using Chrome DevTools.

And most importantly, ask questions!

Instructor Demonstration

Mini-Project

Instructor Demonstration

Script and Console.log

Your turn - Script and Console.log

Follow the instructions in the Readme.md file of folder:
02-Stu_Script_ConsoleLog

Suggested Time:

15 minutes

Instructor Demonstration

Hello Variable

Your turn - Hello Variable

Follow the instructions in the Readme.md file of folder:
04-Stu_Hello-Variable

Suggested Time:

15 minutes

Instructor Demonstration

Primitive Types

Your turn - Primitive Types

Follow the instructions in the Readme.md file of folder:
06-Stu_Primitive-Types

Suggested Time:

15 minutes


15 Minute
Break

Instructor Demonstration

Logical and Comparison Operators

Your turn - Logical and Comparison Operators

Follow the instructions in the Readme.md file of folder:
08-Stu_Logical-Comparison-Operators

Suggested Time:

15 minutes

Instructor Demonstration

Conditional Statements

Your turn - Conditional Statements

Follow the instructions in the Readme.md file of folder:
10-Stu_Conditional-Statements

Suggested Time:

15 minutes

Questions?


The End