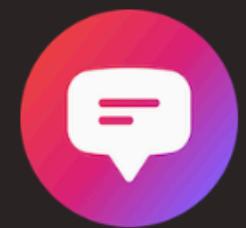


**WELCOME, WELCOME,
WELCOME!**

BUILD A FULL-STACK WEB APP IN A WEEKEND!





TODAY I LEARNED

[SHARE A FACT](#)[ALL](#)

React is being developed by Meta (formerly facebook) (Source)

[TECHNOLOGY](#)[👍 24](#)[👎 9](#)[👎 4](#)[TECHNOLOGY](#)[SCIENCE](#)[FINANCE](#)[SOCIETY](#)[ENTERTAINMENT](#)[HEALTH](#)[HISTORY](#)[NEWS](#)

The shortest war in history lasted 38 minutes! It was between Britain and Zanzibar on August 27, 1896. It was over the ascension of the next Sultan in Zanzibar and resulted in a British victory. (Source)

[HISTORY](#)[👍 15](#)[👎 8](#)[👎 2](#)

Millennial dads spend 3 times as much time with their kids than their fathers spent with them. In 1982, 43% of fathers had never changed a diaper. Today, that number is down to 3% (Source)

[SOCIETY](#)[👍 12](#)[👎 2](#)[👎 0](#)

As of 2023, Breaking Bad is the highest-rated TV show on IMDb with a rating of 9.4/10 (Source)

[ENTERTAINMENT](#)[👍 11](#)[👎 5](#)[👎 2](#)

"typewriter" is the longest English word you can type using 1 row of the QWERTY keyboard (Source)

[TECHNOLOGY](#)[👍 9](#)[👎 1](#)[👎 0](#)

Lisbon is the capital of Portugal (Source)

[SOCIETY](#)[👍 8](#)[👎 3](#)[👎 1](#)

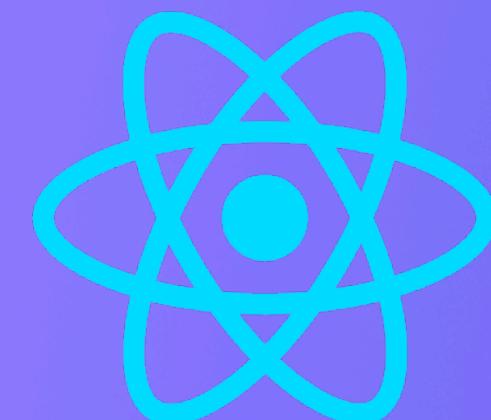
There is enough DNA in the average person's body to stretch from the sun to Pluto and back – 17 times (Source)

[SCIENCE](#)[👍 6](#)[👎 13](#)[👎 2](#)

Human DNA is 99.9% identical from person to person (Source)

[SCIENCE](#)[👍 4](#)[👎 9](#)[👎 1](#)

- 1 Set up your **code editor**
- 2 Basics of the **web** and **web development**
- 3 Start the project by writing **HTML** code
- 4 Styling and creating layouts with **CSS**
- 5 Online database and API with **Supabase**
- 6 Use **JavaScript** to load app data
- 7 Build the final app with the **React** library
- 8 Deploy the final project to a **web server!**



 A **different** approach

 Try out HTML, CSS, JavaScript, React

 Understand if web development is a
good career choice

 You will learn **important fundamentals**

 Know what technologies are used in
the real-world industry

-  Not a “complete” web developer course
-  Will not make a web developer
-  You will not master web technologies
-  Don’t expect to build complex apps





JONAS SCHMEDTMANN

**BUILD A
FULL-STACK
WEB APP IN A
WEEKEND!**



@JONASSCHMEDTMAN

**GOT QUESTIONS? FEEDBACK?
JUST POST IT IN THE Q&A OF
THIS VIDEO, AND YOU WILL
GET HELP THERE!**



JONAS SCHMEDTMANN

BUILD A FULL-STACK WEB APP IN A WEEKEND!

 @JONASSCHMEDTMAN

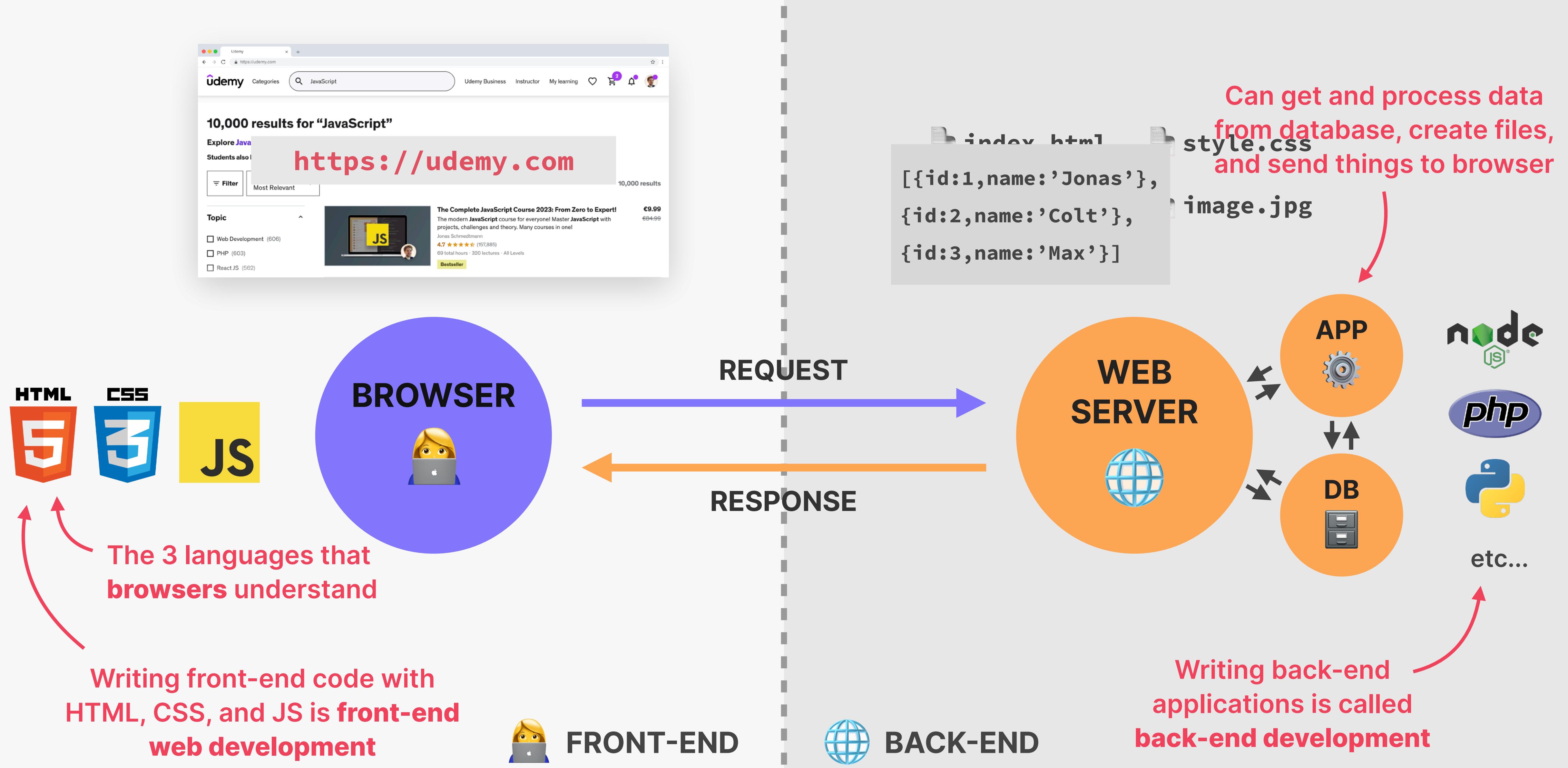
SECTION

WELCOME, WELCOME, WELCOME!

LECTURE

A HIGH-LEVEL OVERVIEW OF WEB
DEVELOPMENT

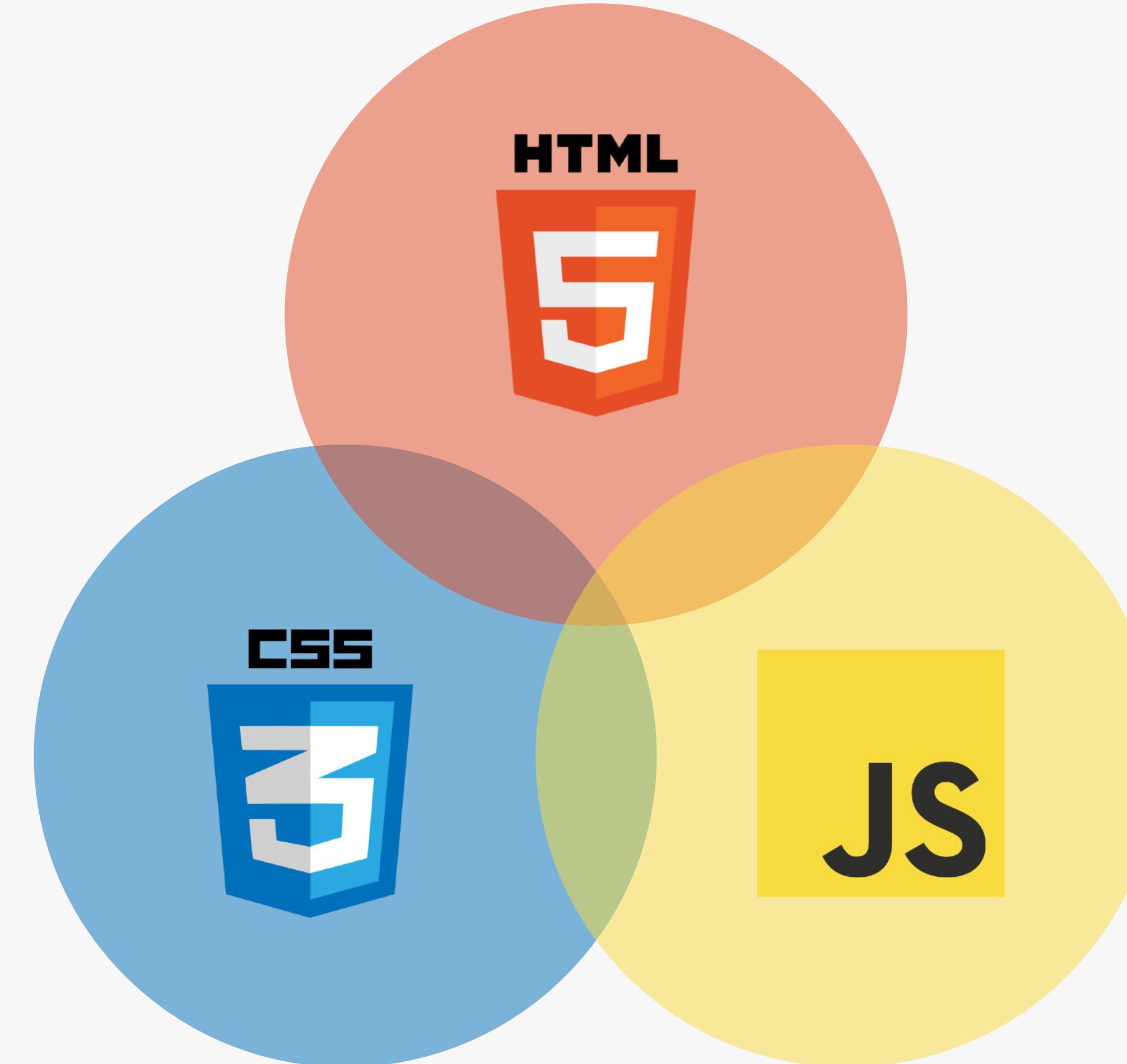
AN OVERVIEW OF THE WEB AND WEB DEVELOPMENT



THE 3 LANGUAGES BROWSERS UNDERSTAND (FRONT-END)

**PRESENTATION:
STYLING AND
LAYOUT**

CONTENT



**PROGRAMMING
LANGUAGE: DYNAMIC
EFFECTS AND WEB
APPLICATIONS**



JONAS SCHMEDTMANN

**BUILD A
FULL-STACK
WEB APP IN A
WEEKEND!**



@JONASSCHMEDTMAN

**GOT QUESTIONS? FEEDBACK?
JUST POST IT IN THE Q&A OF
THIS VIDEO, AND YOU WILL
GET HELP THERE!**

HTML - BUILDING THE APP SKELETON



JONAS SCHMEDTMANN

**BUILD A
FULL-STACK
WEB APP IN A
WEEKEND!**

 @JONASSCHMEDTMAN

SECTION

HTML – BUILDING THE APP
SKELETON

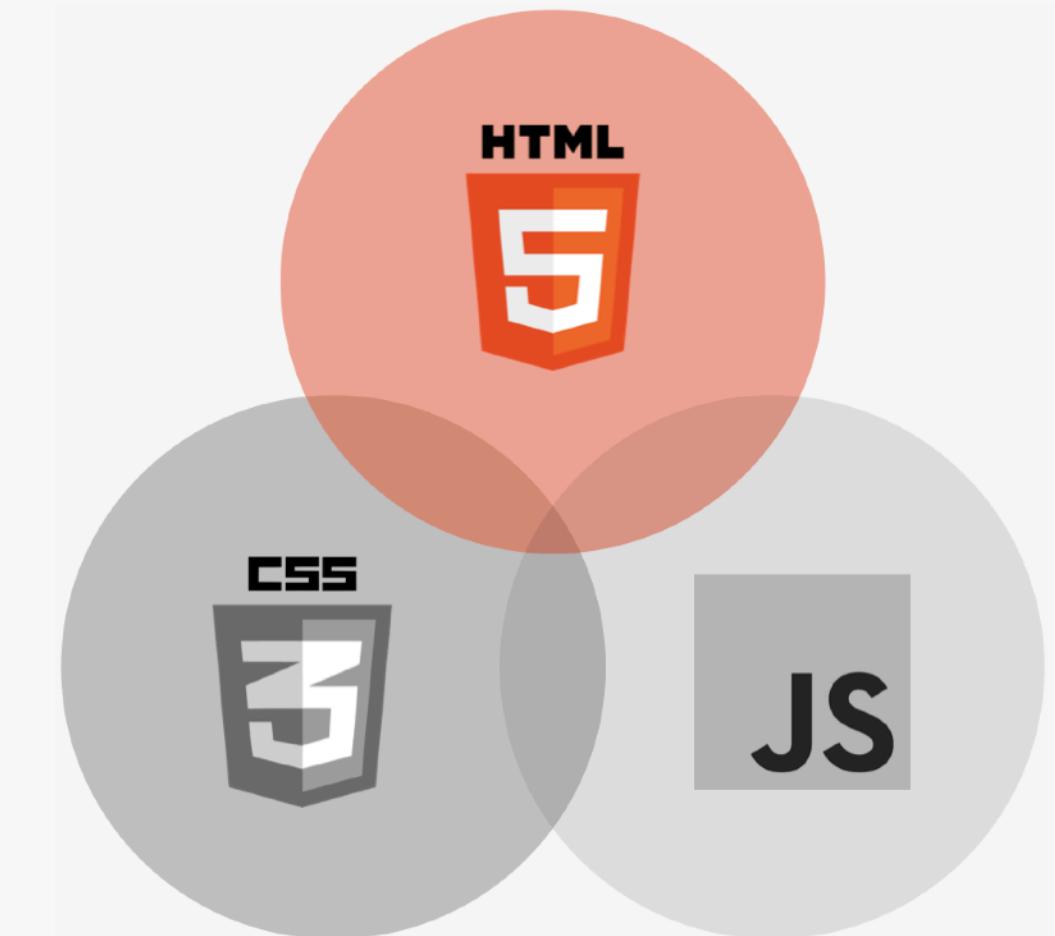
LECTURE

WHAT IS HTML?

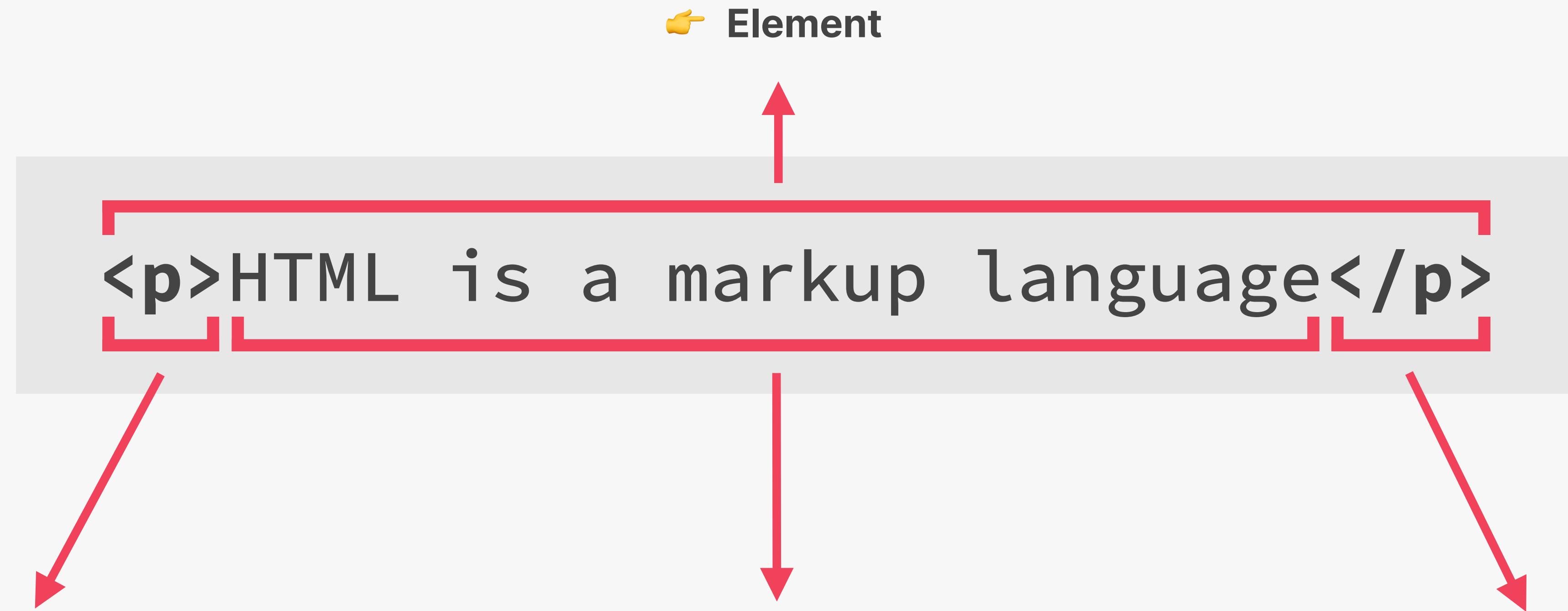
WHAT IS HTML?

HTML

- 👉 **HyperText Markup Language**
- 👉 HTML is a markup language that web developers use to **structure and describe the content** of a webpage (not a programming language)
- 👉 HTML consists of **elements** that describe different types of content: paragraphs, links, headings, images, video, etc.
- 👉 Web browsers understand HTML and **render HTML code as webpages**



ANATOMY OF AN HTML ELEMENT



👉 **Opening tag:** Name of the element, wrapped in < and >

👉 **Content:** Content of the element, in this example text. But it might be another element (**child element**). Some elements have **no content** (e.g.)

👉 **Closing tag:** Same as opening tag, but with a /. When element has no content, it's omitted



JONAS SCHMEDTMANN

**BUILD A
FULL-STACK
WEB APP IN A
WEEKEND!**



@JONASSCHMEDTMAN

**GOT QUESTIONS? FEEDBACK?
JUST POST IT IN THE Q&A OF
THIS VIDEO, AND YOU WILL
GET HELP THERE!**

CSS - STYLING THE APP



JONAS SCHMEDTMANN

**BUILD A
FULL-STACK
WEB APP IN A
WEEKEND!**

 @JONASSCHMEDTMAN

SECTION

CSS – STYLING THE APP

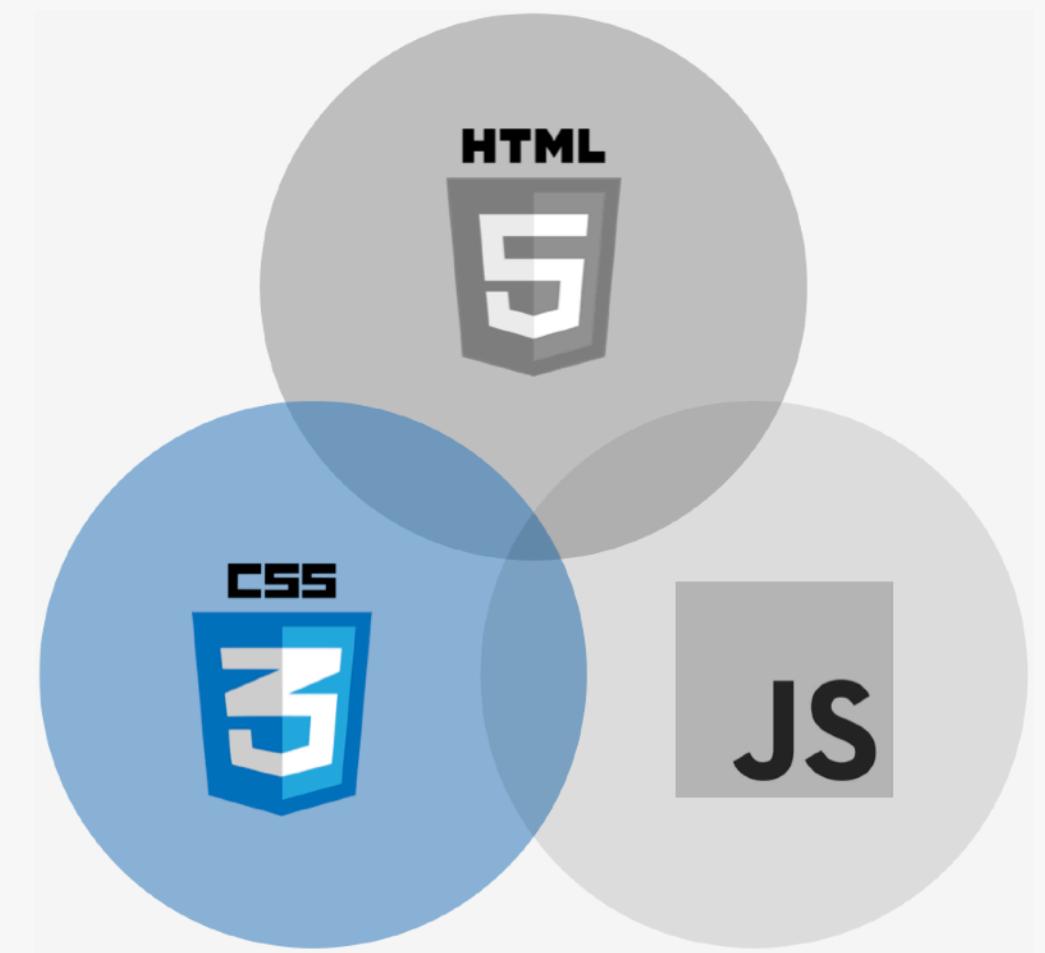
LECTURE

WHAT IS CSS?

WHAT IS CSS?

CSS

- 👉 Cascading Style Sheets
- 👉 CSS describes the **visual style and presentation** of the content written in HTML
- 👉 CSS consists of countless **properties** that developers use to format the content: properties about font, text, spacing, layout, etc.



No need to need
to know all the
properties

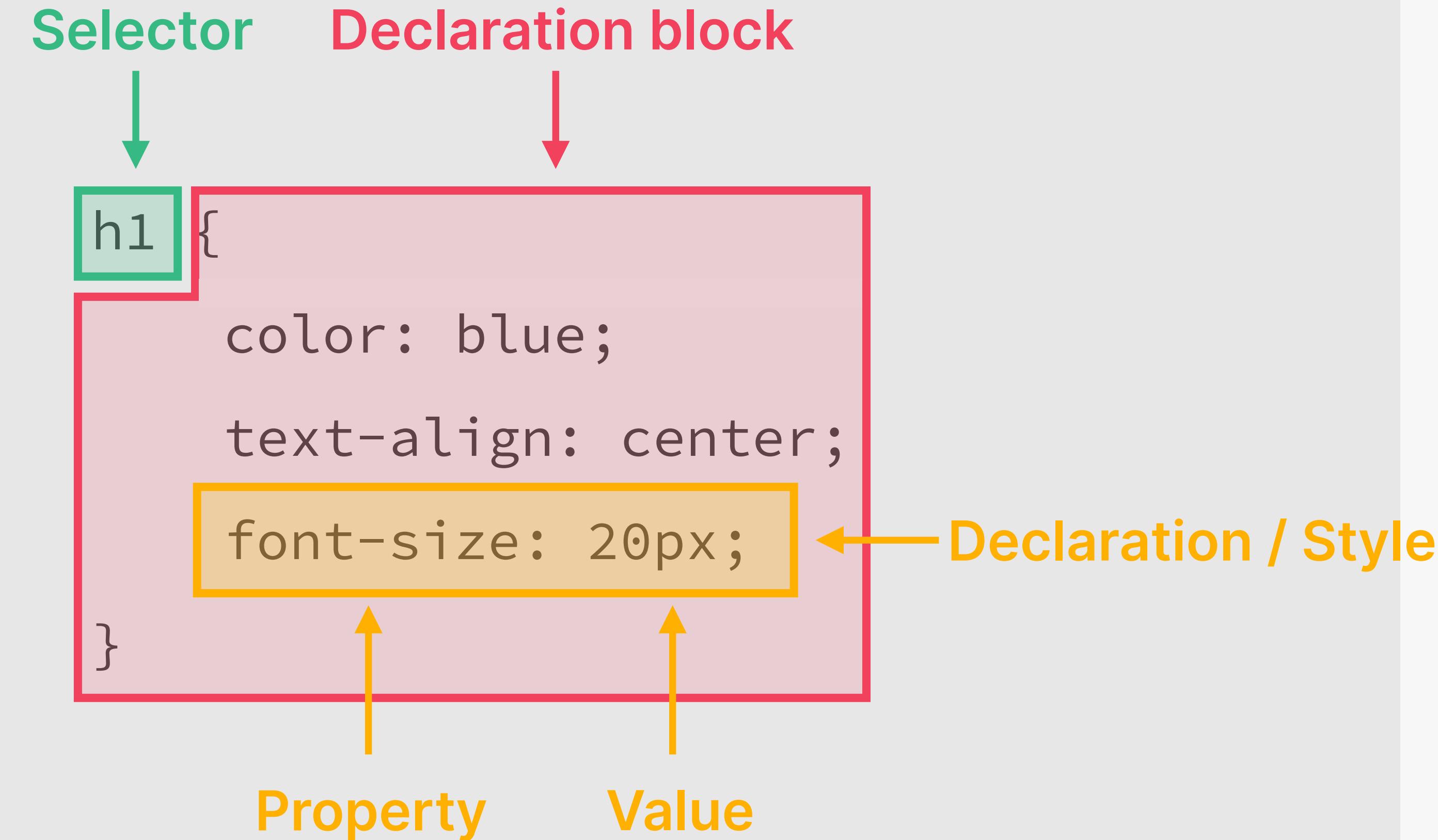
A screenshot of a website titled "TODAY I LEARNED". It features a sidebar with categories like All, Technology, Science, Finance, Society, Entertainment, Health, History, and News. The main content area displays several facts with small images and social sharing icons. One fact about React being developed by Meta is highlighted.



A screenshot of a website titled "TODAY I LEARNED". It shows a list of facts categorized under "TECHNOLOGY", "SCIENCE", "FINANCE", "SOCIETY", "ENTERTAINMENT", "HEALTH", "HISTORY", and "NEWS". Each fact includes a snippet of text, a small image, and social sharing icons. The facts are related to topics like React development, diaper changing habits, and TV show ratings.

HOW WE SELECT AND STYLE ELEMENTS

A CSS RULE





JONAS SCHMEDTMANN

**BUILD A
FULL-STACK
WEB APP IN A
WEEKEND!**



@JONASSCHMEDTMAN

**GOT QUESTIONS? FEEDBACK?
JUST POST IT IN THE Q&A OF
THIS VIDEO, AND YOU WILL
GET HELP THERE!**



JONAS SCHMEDTMANN

**BUILD A
FULL-STACK
WEB APP IN A
WEEKEND!**

 @JONASSCHMEDTMAN

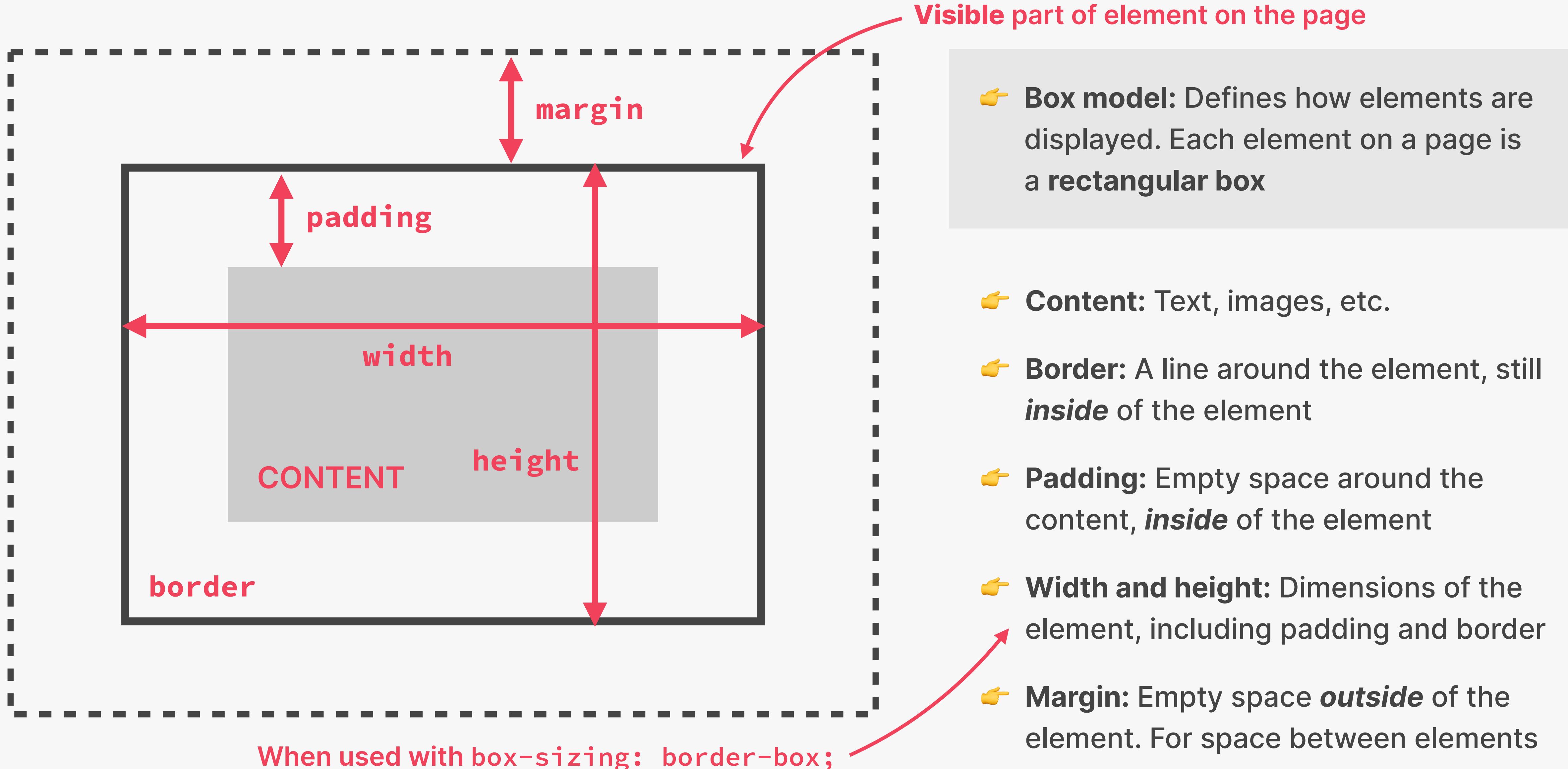
SECTION

CSS – STYLING THE APP

LECTURE

THE CSS BOX MODEL

THE CSS BOX MODEL





JONAS SCHMEDTMANN

**BUILD A
FULL-STACK
WEB APP IN A
WEEKEND!**



@JONASSCHMEDTMAN

**GOT QUESTIONS? FEEDBACK?
JUST POST IT IN THE Q&A OF
THIS VIDEO, AND YOU WILL
GET HELP THERE!**

SUPABASE - STORING THE APP DATA



JONAS SCHMEDTMANN

**BUILD A
FULL-STACK
WEB APP IN A
WEEKEND!**

 @JONASSCHMEDTMAN

SECTION

SUPABASE – STORING THE APP
DATA

LECTURE

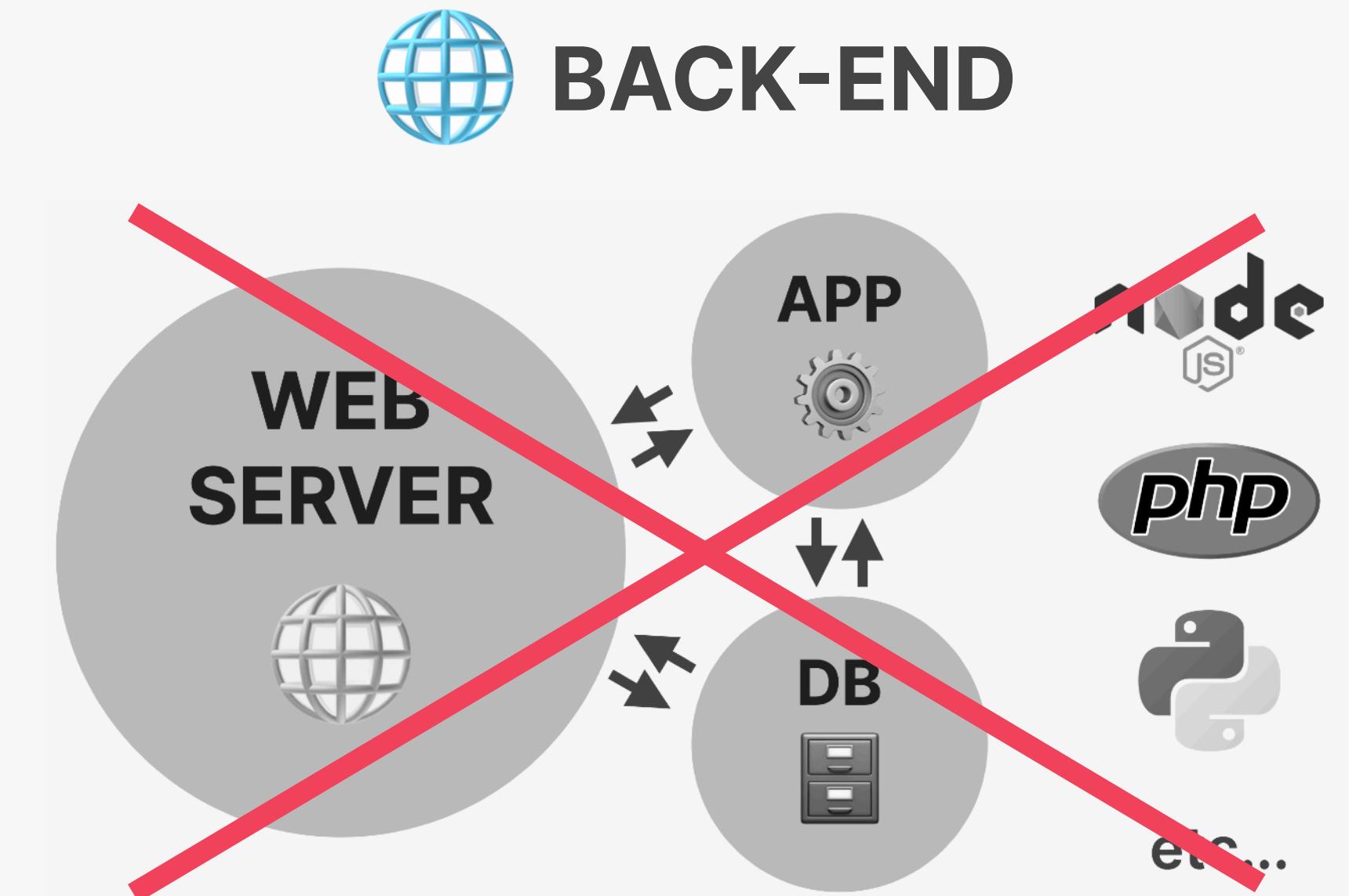
WHAT IS SUPABASE?

WHAT IS SUPABASE?

SUPABASE

- 👉 Service that allows developers to easily **create a back-end with a database**
- 👉 No back-end development needed 😊
- 👉 Automatically creates a **database** and **API** so we can easily request and receive data from the server
- 👉 **API:** Application Programming Interface. In this case, an API is a program that **receives requests for data** and then **sends that data back as JSON**

Common data format,
similar to JS objects



WITH SUPABASE, WE DON'T NEED
TO DO ANY OF THIS MANUALLY!
IT'S ALL INCLUDED 😊

 supabase



JONAS SCHMEDTMANN

**BUILD A
FULL-STACK
WEB APP IN A
WEEKEND!**



@JONASSCHMEDTMAN

**GOT QUESTIONS? FEEDBACK?
JUST POST IT IN THE Q&A OF
THIS VIDEO, AND YOU WILL
GET HELP THERE!**

JAVASCRIPT – MAKING THE APP INTERACTIVE



JONAS SCHMEDTMANN

**BUILD A
FULL-STACK
WEB APP IN A
WEEKEND!**



@JONASSCHMEDTMAN

SECTION

JAVASCRIPT – MAKING THE APP
INTERACTIVE

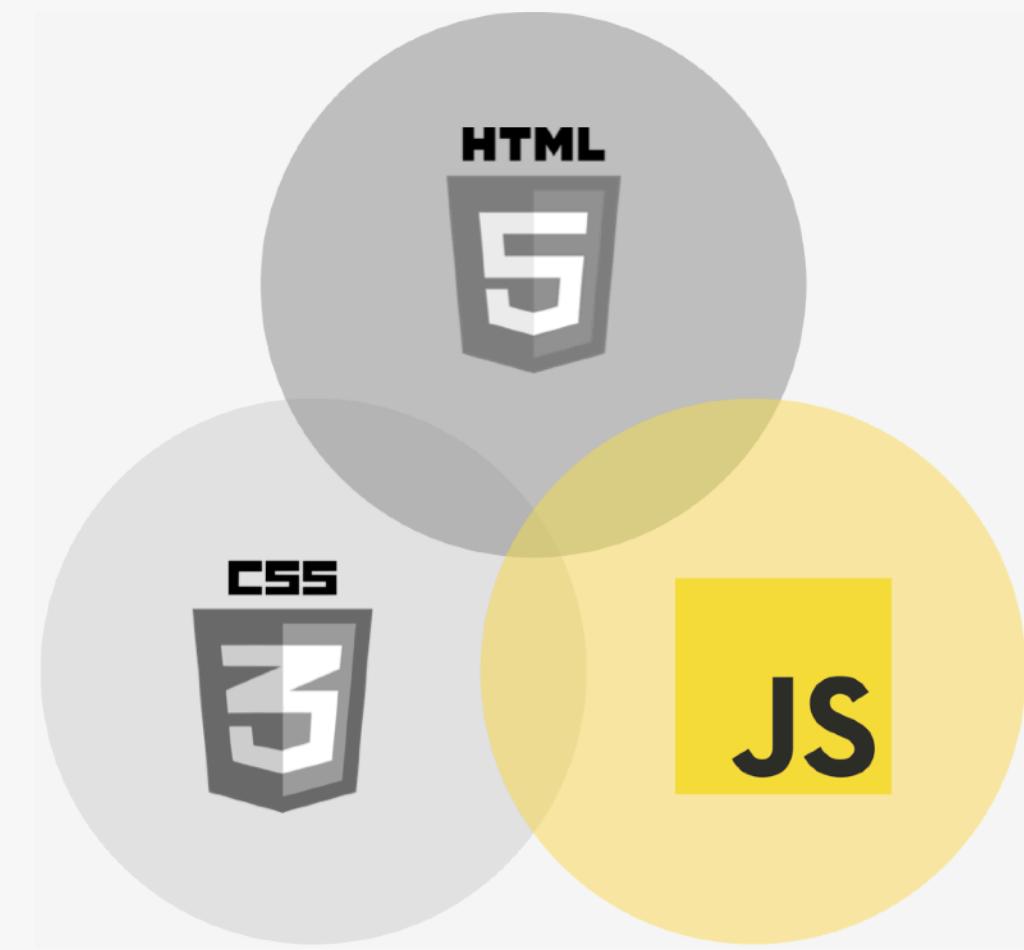
LECTURE

WHAT IS JAVASCRIPT?

WHAT IS JAVASCRIPT?

JAVASCRIPT

- 👉 JavaScript is the **programming language** that browsers understand
- 👉 Web developers use JavaScript to implement **dynamic effects**: respond to click events, load external data, change the HTML page content, play video, animate charts, etc.
- 👉 JavaScript makes **webpages come to life**: we can transform a normal webpage into a **fully-fledged web application** that feels just like a mobile application 🎉





JONAS SCHMEDTMANN

**BUILD A
FULL-STACK
WEB APP IN A
WEEKEND!**



@JONASSCHMEDTMAN

**GOT QUESTIONS? FEEDBACK?
JUST POST IT IN THE Q&A OF
THIS VIDEO, AND YOU WILL
GET HELP THERE!**



JONAS SCHMEDTMANN

**BUILD A
FULL-STACK
WEB APP IN A
WEEKEND!**



@JONASSCHMEDTMAN

SECTION

JAVASCRIPT – MAKING THE APP
INTERACTIVE

LECTURE

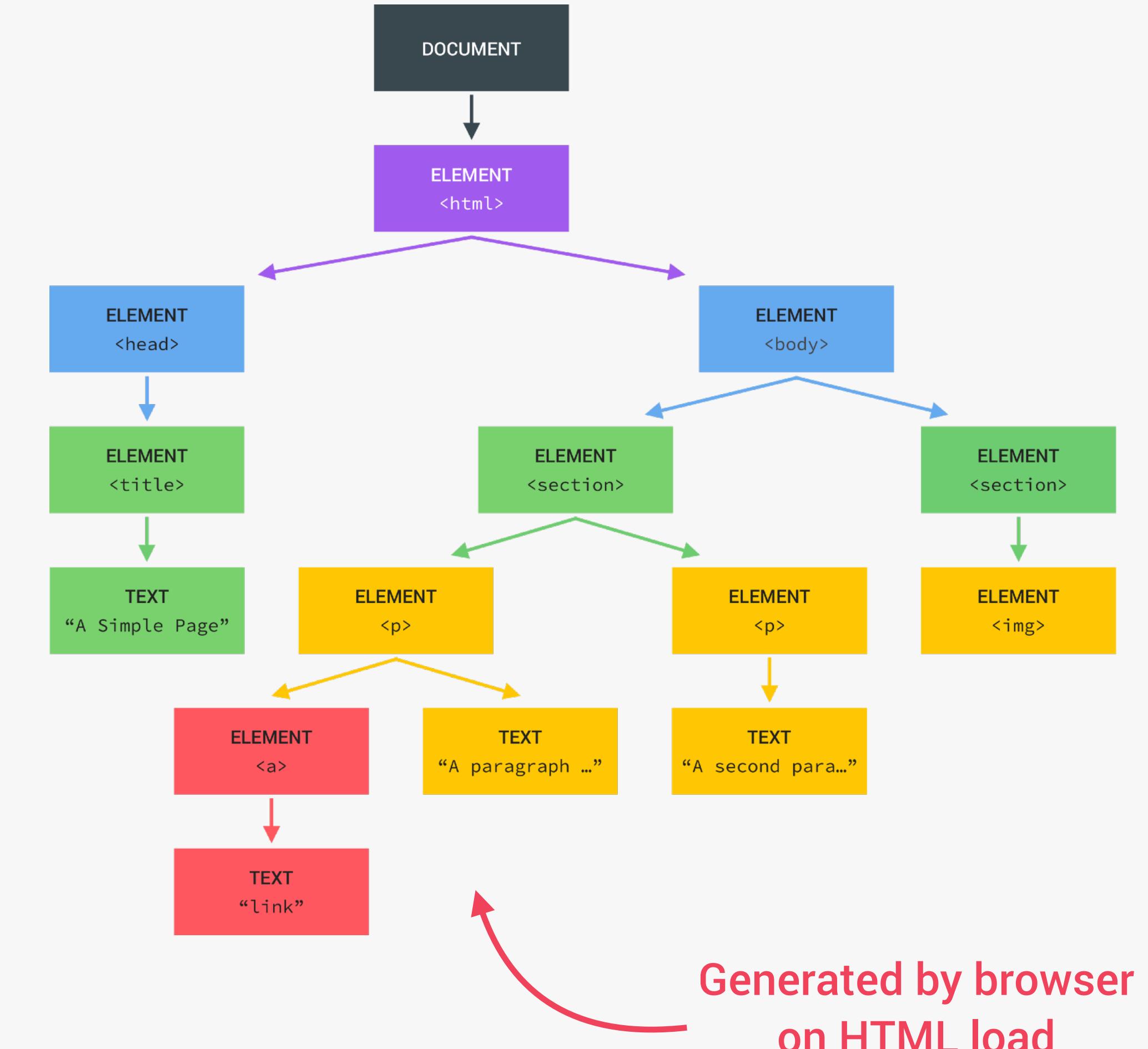
WHAT IS THE DOM?

WHAT IS THE DOM?

DOM

- 👉 Document Object Model
- 👉 Tree-like representation of the HTML document
- 👉 Each HTML element is represented as a **JavaScript object**, which allows JavaScript to access HTML elements
- 👉 DOM objects contain methods and properties to **manipulate** them: change text and HTML attributes, insert new HTML elements, etc.

DOM manipulation





JONAS SCHMEDTMANN

**BUILD A
FULL-STACK
WEB APP IN A
WEEKEND!**



@JONASSCHMEDTMAN

**GOT QUESTIONS? FEEDBACK?
JUST POST IT IN THE Q&A OF
THIS VIDEO, AND YOU WILL
GET HELP THERE!**

REACT - BUILDING THE FINAL APP



JONAS SCHMEDTMANN

**BUILD A
FULL-STACK
WEB APP IN A
WEEKEND!**

 @JONASSCHMEDTMAN

SECTION

REACT – BUILDING THE FINAL APP

LECTURE

WHAT IS REACT?

WHAT IS REACT?

Code written and shared by other developers. Makes development easier and faster

REACT

Webpage that's currently on the screen (current HTML)

👉 “*JavaScript library for building user interfaces (UI)*”

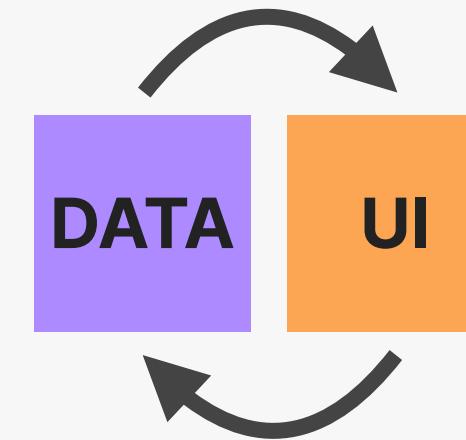
- 1 **Component-based:** A component is a JavaScript function that contains a **piece of the UI** (both its content and functionality). We build complex UIs by combining multiple components
- 2 **Declarative:** We only describe what the UI should look like, using a syntax called JSX. Developers **never manipulate the DOM directly!**
- 3 **Driven by state:** State is the data that the UI is based on. When we change the state in a component, React automatically updates the DOM. This always **keeps the UI synchronized with the data**



WHY DO WE NEED A FRONT-END LIBRARY?

1

Keeping a **user interface synchronized with data** is *really hard* and a *lot of work* in big applications. Front-end libraries **solve this problem** and take hard work away from developers 🎉



2

Libraries enforce a “right” way of structuring and writing application code (less bugs 🐛)



Most used in the web industry

- 👉 Trying to keep **data** (`showForm?`) synchronized with **UI** (form visibility + button text)

```
const btn = document.querySelector('.btn-open');
const form = document.querySelector('.fact-form');

btn.addEventListener('click', function () {
  if (form.classList.contains('hidden')) {
    form.classList.remove('hidden');
    btn.textContent = 'Close';
  } else {
    form.classList.add('hidden');
    btn.textContent = 'Share a fact';
  }
});
```



Code we wrote in the previous section



JONAS SCHMEDTMANN

**BUILD A
FULL-STACK
WEB APP IN A
WEEKEND!**



@JONASSCHMEDTMAN

**GOT QUESTIONS? FEEDBACK?
JUST POST IT IN THE Q&A OF
THIS VIDEO, AND YOU WILL
GET HELP THERE!**



JONAS SCHMEDTMANN

**BUILD A
FULL-STACK
WEB APP IN A
WEEKEND!**

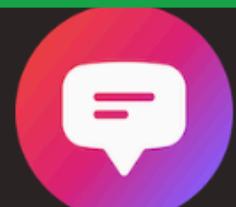
 @JONASSCHMEDTMAN

SECTION

REACT – BUILDING THE FINAL APP

LECTURE

DIVIDING OUR INTERFACE INTO
COMPONENTS



TODAY I LEARNED

[SHARE A FACT](#)[ALL](#)[TECHNOLOGY](#)[SCIENCE](#)[FINANCE](#)[SOCIETY](#)[ENTERTAINMENT](#)[HEALTH](#)[HISTORY](#)[NEWS](#)

App

React is being developed by Meta (formerly facebook) (Source)

[TECHNOLOGY](#)[THUMBS UP](#) 24[THUMBS DOWN](#) 9[THUMBS DOWN](#) 4

The shortest war in history lasted 38 minutes! It was between Britain and Zanzibar on August 27, 1896. It was over the ascension of the next Sultan in Zanzibar and resulted in a British victory. (Source)

[HISTORY](#)[THUMBS UP](#) 15[THUMBS DOWN](#) 8[THUMBS DOWN](#) 2

Millennial dads spend 3 times as much time with their kids than their fathers spent with them. In 1982, 43% of fathers had never changed a diaper. Today, that number is down to 3% (Source)

[SOCIETY](#)[THUMBS UP](#) 12[THUMBS DOWN](#) 2[THUMBS DOWN](#) 0

As of 2023, Breaking Bad is the highest-rated TV show on IMDb with a rating of 9.4/10 (Source)

[ENTERTAINMENT](#)[THUMBS UP](#) 11[THUMBS DOWN](#) 5[THUMBS DOWN](#) 2

"typewriter" is the longest English word you can type using 1 row of the QWERTY keyboard (Source)

[TECHNOLOGY](#)[THUMBS UP](#) 9[THUMBS DOWN](#) 1[THUMBS DOWN](#) 0

Lisbon is the capital of Portugal (Source)

[SOCIETY](#)[THUMBS UP](#) 8[THUMBS DOWN](#) 3[THUMBS DOWN](#) 1

There is enough DNA in the average person's body to stretch from the sun to Pluto and back – 17 times (Source)

[SCIENCE](#)[THUMBS UP](#) 6[THUMBS DOWN](#) 13[THUMBS DOWN](#) 2

THE END!



JONAS SCHMEDTMANN

BUILD A FULL-STACK WEB APP IN A WEEKEND!

 @JONASSCHMEDTMAN

SECTION
THE END!

LECTURE
WHERE TO GO FROM HERE

WHERE TO GO FROM HERE?



Well done!



It's 100% normal that you didn't understand many of the things we did



Try to build a similar small project!



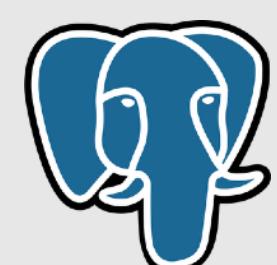
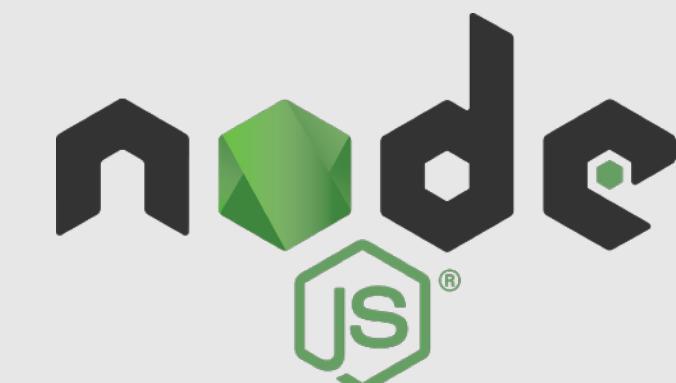
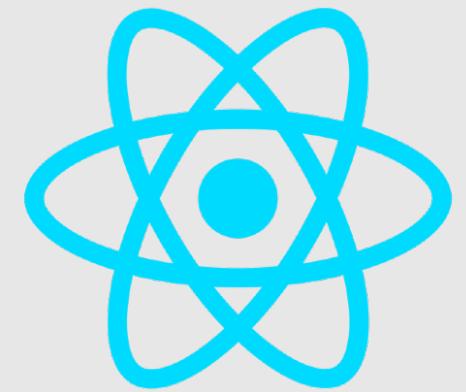
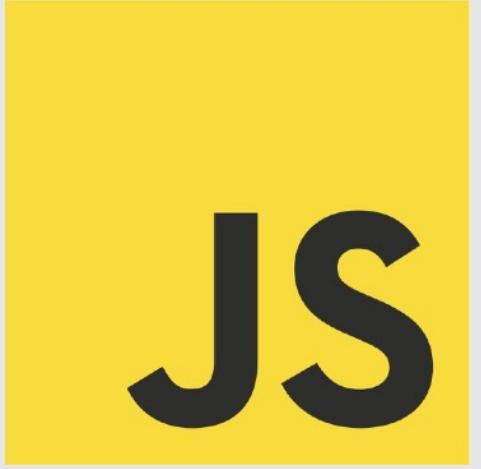
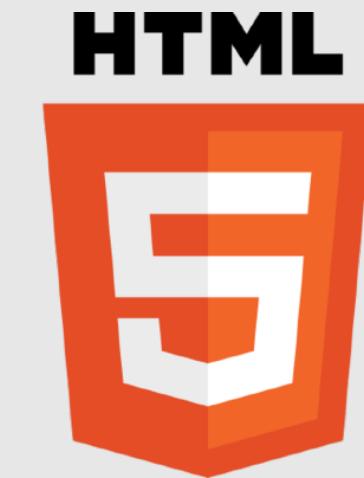
Web development and programming and complex and take a lot of time to learn



But it's a very rewarding career option!



Did you like to write code?





JONAS SCHMEDTMANN

**BUILD A
FULL-STACK
WEB APP IN A
WEEKEND!**



@JONASSCHMEDTMAN

**GOT QUESTIONS? FEEDBACK?
JUST POST IT IN THE Q&A OF
THIS VIDEO, AND YOU WILL
GET HELP THERE!**