## CoGrammar

Welcome to this session: Semantic HTML & Bootstrap

The session will start shortly...

Questions? Drop them in the chat. We'll have dedicated moderators answering questions.



#### Safeguarding & Welfare

We are committed to all our students and staff feeling safe and happy; we want to make sure there is always someone you can turn to if you are worried about anything.

If you are feeling upset or unsafe, are worried about a friend, student or family member, or you feel like something isn't right, speak to our safeguarding team:



Ian Wyles Designated Safeguarding Lead



Simone Botes

Nurhaan Snyman



Rafiq Manan



Ronald Munodawafa



Charlotte Witcher



**Tevin Pitts** 

#### Scan to report a safeguarding concern



or email the Designated Safeguarding Lead: Ian Wyles safeguarding@hyperiondev.com





#### **Skills Bootcamp Cloud Web Development**

- The use of disrespectful language is prohibited in the questions, this is a supportive, learning environment for all - please engage accordingly. (Fundamental British Values: Mutual Respect and Tolerance)
- No question is daft or silly ask them!
- There are Q&A sessions midway and at the end of the session, should you wish to ask
  any follow-up questions. Moderators are going to be answering questions as the
  session progresses as well.
- If you have any questions outside of this lecture, or that are not answered during this lecture, please do submit these for upcoming Academic Sessions. You can submit these questions here: <u>Questions</u>



#### **Skills Bootcamp Cloud Web Development**

- For all non-academic questions, please submit a query:
   www.hyperiondev.com/support
- Report a safeguarding incident: <u>www.hyperiondev.com/safeguardreporting</u>
- We would love your feedback on lectures: Feedback on Lectures



#### World Mental Health Day 🌎 🧠 (10 October 2024)

- Let's take a moment to remind ourselves of the importance of mental well-being.
- Encourage everyone to check in with themselves and each other. Even a small act of kindness can make a huge difference.



#### **Learning Outcomes**

- Explain the concept of the World Wide Web and describe the key processes that occur on the front-end and back-end during web interactions.
- Identify and explain the functional roles of front-end and back-end components in a web application.
- Define the MERN stack and describe how its components work together in building full-stack web applications.
- Construct basic web pages using HTML, organising content with semantic elements such as heading, nav, section.
- Apply CSS styles to enhance the visual appearance of a web page.
- Make use of Bootstrap to assist with styling



## What is the purpose of the <!DOCTYPE html> element?

- A. Defines the document type and version of HTML.
- B. Specifies the character encoding.
- C. Links to external CSS styles.
- D. Provides metadata about the document.



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- A. Sets the text direction (left-to-right or right-to-left).
- B. Indicates the character encoding.
- C. Specifies the language of the document.
- D. Links to a language-specific stylesheet.



## How can we style our HTML pages with CSS? (Select all that apply)

- A. Inline CSS (using the style attribute).
- B. Internal CSS (using <style> tags within the <head>).
- C. External CSS (linking to a separate .css file). D. CSS Frameworks (e.g., Bootstrap, Tailwind).



#### World Wide Web

- The World Wide Web (WWW) is a system of interlinked documents and resources that can be accessed through the internet.
- Users navigate between pages using hyperlinks.
- Understanding the fundamental concepts behind the web is essential for building effective web applications.

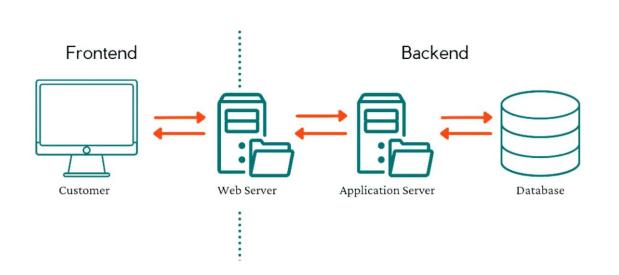


#### Front-end and Back-end

- Web applications are typically divided into two key components: the front-end and the back-end.
- The front-end is responsible for everything users see and interact with in their browser, such as text, images, and buttons.
- The back-end, on the other hand, handles the server-side logic, database management, and processing requests.



#### Front-end and Back-end





#### **MERN Stack**

- In modern web development, frameworks like the MERN stack simplify the creation of full-stack web applications.
  - MongoDB a NoSQL database
  - Express.js a web framework
  - React.js a front-end JavaScript library
  - Node.js a runtime environment for executing JavaScript on the server
- Together, these tools allow developers to build powerful and dynamic web applications efficiently.



#### **HTML**

- HTML (HyperText Markup Language) is used to structure and format the content of websites on the World Wide Web.
- In simple words, HTML is the primary building block to create and structure website content.
- Web Developers use it to create a skeleton of modern websites and web apps.



#### CSS

## Cascading Style Sheets (CSS) is a language used to change the presentation and styling of a document written in a markup language e.g. HTML

- Helps us create visually appealing and user-friendly websites.
- HTML structures the content, CSS controls how the content looks.
- CSS uses a set of rules written in a certain syntax to style HTML.
- We use CSS to create style sheets, which define the appearance and layouts of the elements on a webpage.
- The various properties which we can control with CSS can be found here.



# Let's take a break



### **Tutorial Overview**

- → Introduction to Semantic HTML
- → Style with Bootstrap



#### Introduction to Semantic HTML

- Semantic HTML focuses on the meaning of elements rather than their presentation.
- It involves using specific HTML tags to define the structure and layout of web pages more clearly.
- This approach makes web pages more understandable and easier for browsers and search engines to interpret.
- Unlike non-semantic elements like <div> and <span>, semantic elements provide context for their content.



#### **List Of Common Semantic HTML Elements**

- <header>...</header>
- <nav>...</nav>
- <main>...</main>
- <section>...</section>
- <figure>...</figure>
- <figcaption>...</figcaption>
- <footer>...<footer>
- <aside>...</aside>



#### Why Use Semantic HTML?

- Accessibility
- Search Engine Optimisation (SEO)
- Easy to understand



#### What is Bootstrap?

- ❖ A front-end framework used to build pages faster using HTML and CSS.
- Provides a lot of useful CSS and HTML templates that you can use and modify.
- It helps you to create websites that automatically adjust based on the device which they are being used on (aka. a responsive website).
- ❖ It's free!



#### **Advantages of Bootstrap**

- Easy to use.
- \* Responsive features.
- Mobile-first approach.
- Browser compatibility.



#### How do you use it?

Link to Bootstrap from your HTML files

Follow this link to get started with Bootstrap: <u>here.</u>



## Questions and Answers





# Thank you for attending





