CoGrammar

Welcome to this session:
Setting up your

Development Environment and Introduction to HTML

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

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Charlotte Witcher



Tevin Pitts

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





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- 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>



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- 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



Learning Outcomes



Lecture Overview

- → Code Editors
- → Local Development Server
- → The Terminal
- → Basics of HTML



Terminal

- * A terminal, also known as a command-line interface or shell, is a text-based interface used to communicate with the operating system.
- It allows users to execute commands by typing them in, instead of relying solely on a graphical user interface (GUI).
- This is particularly powerful for automation, scripting, and system administration tasks.



Terminal Commands: PWD

- Stands for "print working directory."
- It shows you the current directory you're in.

```
PS E:\practical> pwdPathE:\practical
```



Terminal Commands: LS

Lists the files and directories in the current directory.

```
PS E:\practical> ls
     Directory: E:\practical
 Mode
                      LastWriteTime
                                           Length Name
                          5:24 PM
                                                  Tutorial session
                2/22/2024
 d----
                2/20/2024
                          1:32 AM
                                               16 example.txt
 -a----
                2/20/2024 1:13 AM
                                               68 example1.txt
  -a----
                                               68 example2.txt
 -a----
                2/20/2024 1:14 AM
                                              683 fileIO.py
                2/19/2024 11:13 PM
 -a----
                2/22/2024 5:46 PM
                                             3876 oop.py
  -a---
                 3/1/2024 1:45 AM
                                             1971 sandbox.py
 -a---
```



Terminal Commands: CD

- Stands for "change directory."
- It allows you to navigate between directories.

- PS E:\practical> cd tutorial_session
- PS E:\practical\tutorial_session>



Setting Up Dev Environments

- VS Code: https://code.visualstudio.com/
- Browsers:
 - > Firefox
 - > Chrome
 - > Edge
 - > Safari



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.



HTML



HTML

- <html> is the root element of the DOM, and it contains all of the other elements in the code.
- The <head> tag contains metadata about the web page, such as the title and any linked CSS or JavaScript files.
- The **<body>** tag contains the main content of the web page, which will be displayed in the web browser's window.



HTML: DOM

- The Document Object Model (DOM) is a programming interface for web documents. It represents the page so programs can change the document structure, style, and content dynamically.
- The DOM is a fundamental concept in web development, enabling interaction with web pages.
- When a web page is loaded, the browser creates a Document Object Model of the page.
- The DOM tree represents the structure of an HTML document. Each element in the document is a node in the tree, forming a parent-child relationship.



HTML: Elements

- HTML elements consist of several parts, including the opening and closing tags, the content, and the attributes.
- The opening tag consists of the element name, wrapped in angle brackets (< or />). It indicates the start of the element and the point at which the element's effect begins.



HTML: Elements

- The closing tag is the same as the opening tag, but with a forward slash (/) before the element name. It indicates the end of the element and the point at which the element's effect stops.
- The content of the element can be text, other elements, or a combination of both.
- The opening tag, the closing tag, and the content together make up the element.



HTML: Attributes

HTML elements can have attributes, which provide additional information about the element.

```
Hi, I am a paragraph.
</body>
</html>
```



HTML: Paragraphs

❖ The HTML tag is used to create paragraphs.



Hi, I am a paragraph.



HTML: Headings

The HTML heading tags (<h1> to <h6>) are used to add headings to a webpage.

```
<h1>Heading 1.</h1>
<h2>Heading 2.</h2>
<h3>Heading 3.</h3>
<h4>Heading 4.</h4>
<h5>Heading 5.</h5>
<h6>Heading 6.</h6>
```

Heading 1.

Heading 2.

Heading 3.

Heading 4.

Heading 5.

Heading 6.



HTML: Comments

HTML comments are used to insert notes to a web page.

```
<!-- You can't see me -->

    You cannot see the comment above because it's not supposed to be visible

</pody>
```

Hi, I am a paragraph.

You cannot see the comment above because it's not supposed to be visible



Thank you for attending







