GIRL GEEK ACADEMY Make your own website with HTML



GIRL GEEK ACADEMY A(KNOWLEDGEMENT

We would like to acknowledge the Wurundjeri people of the Kulin nation who are the traditional custodians of the land on which we're meeting today.





Who are we?!

We're Leura, Cherie and Rubii! It's nice to meet you 💖

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What's a Girl Geek?

GIRL GEEKS ARE PROBLEM SOLVERS!

Geek /gik/ noun.

1. A person who's highly passionate, excited and deeply curious. You could be a geek about anything. Geeks care; they show up and they support the people around them.

2. Geek is a self-described term. It could be insulting to call someone a geek, but saying "we're geeks" is expressing it as a term of affection. "I'm a geek" is a term of pride.

verb. **1.** The act of being a geek. **2.** Activities include geeking out with friends, and getting your geek on about something.



How we learn together at Girl Geek Academy

We will all learn at a different pace, and that's GREAT!

Some of us are all different ages

Role models to each other

Ask questions - we will always answer them, even if it takes a few minutes

This is a marathon not a sprint.

We have a couple hours together today, but MANY more hours together ahead!



Let's talk about websites for a second

All websites (the front end at least) are made with a combination of HTML, CSS and Javascript!

 That means every website you see has at least some HTML, CSS or Javascript in it!



What is HTML for?!

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GETYA GEEK ON!

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In short, HTML is used to put structure, text and information on our website! 5



What you can create with HTML 🧡

- HTML is a **markup language**, so that means we can design web pages with it

- HTML can also be used in **game development**, specifically HTML5
- Lots of web pages you see online are made with HTML!
- Some games made in HTML5:





What about that word... markup language

- Do you have any idea what it is?







What about that word... markup language

- Do you have any idea what it is?

It prepares a structure for data, or prepares the look or design of a web page

- Some examples of markup languages:
 - HTML Hypertext Markup Language
 - MathML Mathematical Markup Language
 - XML eXtensible Markup Language

Note: It is different from a programming language! A programming language has a wider range of use cases!



Why is HTML important?

- It's part the **fundamentals** (like "ABC") of front-end web development
- Great way of learning how to **think in a structured manner** (which is necessary when programming)

- You can make your own website!
- Or games!
- So it's super useful, and is **used by the pros** to make lots of things!





Let's start writing some HTML!

https://www.khanacademy.org/computin g/computer-programming/html-css



How do I write HTML at home without the internet?!

- **Notepad++** is a text and source-code editor used by lots of coders!
- It reads many file formats (i.e. HTML, Javascript, Python) and has **colour coding** to make it easier to read and write code
- It's free!





How do I test out my HTML later?

- **W3 Schools** have a great website, where you can write code, and see what it would look like in a web browser!
- We'll post a link in the chat

If you ever want to make your own website, you can quickly test out how your code will look here!

https://www.w3schools.com/html/tryit.asp?filename=tryhtml_default



Now you know a bit about HTML and have written some, what are some projects you think you could make?

Let us know - what kind of website would you like to make?



HTML and AI?

Now that we know a bit about HTML, let's consider Artificial Intelligence (AI) for a second...

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Do you think AI could generate HTML?



HTML and AI?

Yes! Here is an example:

https://sketch2code.azurewebsites.net/



The Ethics of Al

Innovating responsibly
Empowering others
Fostering positive impact

Check it out, go to ...



https://www.microsoft.com/en-us/ai/ai-for-good



HTML Syntax: Tags

Tags 🐖

Div Section

<div>Block element</div>

Headings

<h1>Page title</h1> <h2>Subheading</h2> <h3>Tertiary heading</h3> <h4>Quaternary heading</h4>

Paragraph

text

Image

<img src="/demo.jpg" alt="description" height="48" width="

Mailto link

<a href="mailto:me@ruwix.com?Subject=Hi%20mate" target="_to

Inner anchor (jump on page)
Jump to footnote

Footnote content

Bold text

Bold text

Italic text

(2)

Italic text

Underlined text

Underlined text<</pre>

Tag example: <html> Opening tag <html> Closing tag </html>



Iframe

<iframe src="link.html" width="200" height="200">
</iframe>

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<abbr< th=""><th>title=</th><th>"Hypertext</th><th>Markup</th><th>Language">HTML</th><th></th></abbr<>	title=	"Hypertext	Markup	Language">HTML	
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Comment			
HTMI<br Comment -			
Horizontal	Line		
<hr/>			
Line break			

Quotation

<q>Success is a journey not a destination.</q>

<blockquote cite="https://ruwix.com/"> The Rubik's Cube is the World's best selling puzzle toy. </blockquote>

Video

<video width="200" height="150" controls>
<source src="vid.mp4" type="video/mp4">
<source src="vid.ogg" type="video/ogg">
No video support.
</video>

Audio

<audio controls> <source src="sound.ogg" type="audio/ogg"> <source src="sound.mp3" type="audio/mpeg"> No audio support. </audio> You can embed external documents using the <iframe> tag or inline frame element

- The <video> tag or video element allows you to add media too like a Youtube or Vimeo URL link
 - For this option, you can hide any video controls like the pause button or sound options etc

For the iframe element, there is no such option to hide controls
Want to add audio? Use the <audio> tag or audio element!



HTML Syntax: Attributes

Attributes 💋 🛛 🔊	All attributes	
<pre>SYNTAX <tag attributename="value"></tag> - lowecase attributes, quote values Global attributes accesskey, class, contenteditable, data-*, dir, draggable, hidden, id, lang, spellcheck, style, tabindex, title <div class="big" contenteditable="true" data-htmlcheat="99" dir="ltr" id="demo" lang="en" spellcheck="true" style="color: red;" tabindex="0" title="Tooltip">Hello World!</div></pre>	action form align applet img, ta alt applet async script autocomplete form, i autofocus button autoplay audio, autosave input bgcolor body,	l attribute c, caption, col, colgroup, hr, iframe, able, tbody, td, tfoot , th, thead, tr , area, img, input input , input, keygen, select, textarea video col, colgroup, marquee, table, tbody,
<pre>Internationalization: dir, lang, xml:lang <html lang="en-US"> Right to left (Arabic) </html></pre>	buffered audio, challenge keyge charset meta, checked comm cite blocko	n
Link: download, href, hreflang, media, rel, target, type <a <br="" alt="description" demo.jpg"="" href="https://htmlg.com/" rel="external
Link

Image: src, alt, height, ismap, longdesc, src, srcset, usemap, width
height="48" width="100" longdesc="desc.txt" />	• attri	bute = "value"

•



HTML Syntax: Structures



Basic structure:
A DOCTYPE html tag
An opening html tag
A head element
A body element
A closing html tag

Read more about the **different modes** here: https://developer.mozilla.org/en-US/docs/Web/HTML/Quirks_Mode _and_Standards_Mode



The Document Object Model (DOM)



The **DOM** looks like a tree, doesn't it? Similarly, your web browser creates a **tree-like data representation** when a web page is opened. It **consists of HTML elements, attributes, values and content** etc.

Note: You can use Javascript to access and change the elements in DOM? We'll be learning more about Javascript in the next lesson! To read more about this, go to... https://developer.mozilla.org/en-US/docs/Web/API/Document_Object_Model/Intro duction



THANKS FOR JOINING IN TODAY AND HAVING FUN TOGETHER EVERYONE!!

Please feel free to send any future HTML projects you do to <u>hello@girlgeekacademy.com</u>

We wanna see what you come up with!