

Robot Coaches

HTML: <u>HyperText</u> Markup Language is the coung language we use to help browsers

understand the web page. Important to note:

- Browser examples Firefox, Chrome, Safari, Microsoft Edge
- Everything in a website lives in **HTML elements**
 - HTML elements are pieces of code that describe what we want on the page.

BUT, if we only used HTML, our page would be boring...

Hi, my name is GIRLS CODE CLUB!

I am attended by some really awesome girls who love programming.

Some of my favorite things are:

- computers
- coding
- learning

This is how happy I look when girls are programming!



CSS: <u>Cascading</u> <u>StyleSheets</u>

Cascading StyleSheets allow us to...

- Set styles (fonts, background colors, sizes, and more)
- Make our page as attractive and easy to read as possible

If we ONLY used CSS and not any HTML, our site would look like nothing because there's no content to style. Oops! But, if we add **CSS** to our HTML from earlier, we get...

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WHAT ELSE IS IN A WEBSITE?



IMAGES

Images to help visitors understand their content or to make the website more visually appealing.

JAVASCRIPT

Your packet includes information about JavaScript, but we will be learning more about this in future sessions!





HTML & CSS: A METAPHOR

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Our **HTML** is what makes up the home - walls, floors, doors, windows, things on the walls, furniture. Without **HTML**, we would have nothing in our home.

Our **CSS** is what *styles* the home - the paint on the walls, the colors of the art on the walls, the pattern on the couch. Without **CSS**, we would have a home full of very boring stuff!

We build our **HTML** using a *nested* group of *elements*, which you can think of as the same way a house is a nested group of items. You wouldn't put a couch on an empty lot and call it a house, right?



CODE EXAMPLE



IN HTML WORLD

<html> <body>

Boring couch

Boring chair

Some boring picture frame

Another boring picture frame

Last boring picture frame

</body>

</html>

IN REAL WORLD

The property our house sits in

The outside walls of our house

Piece of furniture - a couch

Piece of furniture - a chair

Collage of art on a wall

First picture

Second picture

Third picture

Done with the collage of art

Done with the outside walls

Done with the property outside



HEADERS, PARAGRAPHS, AND LISTS, OH MY!

Here are just a few of the elements you could see on a web page:

- <h1></h1> header
- <h2></h2> smaller Header
- <h6></h6> smallest Header
- paragraph
- <l
- ordered, or numbered list
- an element in a list
- image
- <a> link
- <div></div> a container to put other elements inside

GETTING STARTED IN CODEPEN



CodePen looks a little different than in previous years, so your instructor will walk through these steps again after the presentation.

Step 1: Create a new website project. In CodePen, these are called Pens.



Step 2: We will use two sections right now to add our code. HTML code goes in the HTML section:



GETTING STARTED IN CODEPEN (CONTINUED)



And CSS goes in the CSS section:



Easy enough! For now, we will ignore the JS section until we talk about JavaScript.

IDEAS FOR PERSONALIZING YOUR WEBSITE



- Make the background your **favorite color**.
- Put your **name** in the header.
- Make the first paragraph about something that makes you happy.
- Put your **favorite things** in the list.
- Tell us about your favorite food, and include a picture!





ADA LOVELACE

- First programmer. Ever.
- Every 2nd Tuesday in October is Ada Lovelace day!
- https://www.youtube.com/ watch?v=u0kmylCUW_c



