**Day 1\_HTML Explanation**

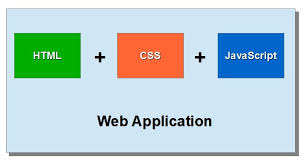
https://lh6.googleusercontent.com/pzfkpYzj_xNKuCIRaMdGOcJRGHimowNa5u7Ned4rI9rrL8AGediPxVgoTzYM65B3F7T2wKnzzs4NN42aMrsGf_ZZvSDkx9V2RHZ5SJ6YjjldEA7E9x9SwUSXZmLWBKV9rfHuNRbkG3bXpFexSg

**15 Minutes**

Welcome! Introduce yourself to class-> Have a couple fun facts.

* Have everyone say their name and their hobbies or idea/experience about Web design.
* Create a poster with list of expectations with the class! Open this up to a class discussion. Make sure that the kids are involved and contributing to the list of rules.  This poster can be great for referring to throughout the course.

**HTML Introduction (20 Minutes Lecture+10 Minute Activity)**

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## What is HTML?

HTML is the standard markup language for creating Web pages.

* HTML stands for Hyper Text Markup Language

**Hypertext** refers to the way in which Web pages (HTML documents) are linked together. Thus the link available on a webpage is called Hypertext.

* HTML describes the structure of Web pages using markup

HTML is a **Markup Language** which means you use HTML to simply "mark up" a text document with tags that tell a Web browser how to structure it to display.

## Web Browsers

The purpose of a web browser (Chrome, IE, Firefox, and Safari) is to read HTML documents and display them.

The browser does not display the HTML tags, but uses them to determine how to display the document:

* HTML elements are the building blocks of HTML pages
* HTML elements are represented by tags
* HTML tags label pieces of content such as "heading", "paragraph", "table", and so on

**HTML Structure**

<!DOCTYPE html>  
<html>  
<head>  
<title>Page Title</title>  
</head>  
<body>  
  
<h1>My First Heading</h1>  
<p>My first paragraph.</p>  
  
</body>  
</html>

### Example Explained

* The <!DOCTYPE html> declaration defines this document to be HTML5
* The <html> element is the root element of an HTML page
* The <head> element contains meta information about the document
* The <title> element specifies a title for the document
* The <body> element contains the visible page content
* The <h1> element defines a large heading
* The <p> element defines a paragraph

## Write HTML Using Notepad or TextEdit

Web pages can be created and modified by using professional HTML editors.

However, for learning HTML we recommend a simple text editor like Notepad (PC) or TextEdit (Mac).

We believe using a simple text editor is a good way to learn HTML.

Follow the four steps below to create your first web page with Notepad or TextEdit.

## Step 1: Open Notepad (PC)

**Windows 8 or later:**

Open the **Start Screen** (the window symbol at the bottom left on your screen). Type **Notepad**.

**Windows 7 or earlier:**

Open **Start** >**Programs >** **Accessories >** **Notepad**

## Step 1: Open TextEdit (Mac)

Open **Finder > Applications > TextEdit**

Also change some preferences to get the application to save files correctly. In **Preferences > Format >**choose**"Plain Text"**

Then under "Open and Save", check the box that says "Ignore rich text commands in HTML files".

**Then open a new document to place the code.**

Have your students open their favorite editor at this point, then create a new file, and save it with the name test.html. Explain that by saving it with that .html extension, your editor should automatically know that this file is an HTML file.

Open the saved HTML file in your favorite browser (double clicks on the file, or right-click - and choose "Open with").

**HTML Basic Tags (20 Minutes Lecture)**

HTML tags are element names surrounded by angle brackets:

**<tagname>content goes here...</tagname>**

* HTML tags normally come **in pairs** like <p> and </p>
* The first tag in a pair is the **start tag,** the second tag is the **end tag**
* The end tag is written like the start tag, but with a **forward slash** inserted before the tag name

**Tip:** The start tag is also called the **opening tag**, and the end tag the **closing tag**.

1. **Heading Tags (H1-H6)**

Any document starts with a heading. You can use different sizes for your headings. HTML also has six levels of headings, which use the elements **<h1>, <h2>, <h3>, <h4>, <h5>, and <h6>**. While displaying any heading, browser adds one line before and one line after that heading.

### Example

<body>

<h1>This is heading 1</h1>

<h2>This is heading 2</h2>

<h3>This is heading 3</h3>

<h4>This is heading 4</h4>

<h5>This is heading 5</h5>

<h6>This is heading 6</h6>

</body>

## Paragraph Tag

The **<p>** tag offers a way to structure your text into different paragraphs. Each paragraph of text should go in between an opening <p> and a closing </p>

### Example

<body>

<p>Here is a first paragraph of text.</p>

<p>Here is a second paragraph of text.</p>

<p>Here is a third paragraph of text.</p>

</body>

## Line Break Tag

Whenever you use the **<br />** element, anything following it starts from the next line. This tag is an example of an **empty** element, where you do not need opening and closing tags, as there is nothing to go in between them.

The <br /> tag has a space between the characters **br** and the forward slash.

<body>

<p>Hello<br />

You delivered your assignment ontime.<br />

Thanks<br />

Priya</p>

</body>

## Horizontal Lines

Horizontal lines are used to visually break up sections of a document. The **<hr>** tag creates a line from the current position in the document to the right margin and breaks the line accordingly.

<body>

<p>This is paragraph one and should be on top</p>

<hr />

<p>This is paragraph two and should be at bottom</p>

</body>

## HTML Links

HTML links are defined with the **<a>** tag:

<a href="">This is a link</a>

The link's destination is specified in the **href attribute**.

Attributes are used to provide additional information about HTML elements

## HTML Images

HTML images are defined with the **<img>** tag.

The source file (src), alternative text (alt), width, and height are provided as attributes:

<img src="" alt="Alternate name for image" width="104" height="142">

**HTML Marquee**

An HTML marquee is a scrolling piece of text displayed either horizontally across or vertically down your webpage depending on the settings. This is created by using HTML <marquees> tag.

**Note:**The HTML <marquee> tag may not be supported by various browsers so its not recommended to rely on this tag, instead you can use Javascript and CSS to create such effects.

<body>

<marquee>This is basic example of marquee</marquee>

</body>

**HTML Attributes-****10 Minutes**

The id Attribute, The title Attribute, href Attribute, Size Attributes, The alt Attribute, The Align Attribute

* All HTML elements can have **attributes**
* Attributes provide **additional information** about an element
* Attributes are always specified in **the start tag**
* Attributes usually come in name/value pairs like: **name="value"**

## The title Attribute

Here, a **title** attribute is added to the **<p>** element. The value of the title attribute will be displayed as a tooltip when you mouse over the paragraph:

<p title="I'm a tooltip">  
This is a paragraph.  
</p>

## The href Attribute

HTML links are defined with the **<a>** tag. The link address is specified in the **href** attribute

<a href="http://www.computingkids.com/">This is a link</a>

<a href="Home.html”>This is a link</a>

## Size Attributes

HTML images are defined with the **<img>** tag.

The filename of the source (**src**), and the size of the image (**width** and **height**) are all provided as **attributes**:

<img src=" ComputingKids.png " width="304" height="142">

## The alt Attribute

The **alt** attribute specifies an alternative text to be used, when an image cannot be displayed.

<img src="ComputingKids.png" alt="image" width="304" height="142">

## The align Attribute

**Align** attributeisused to indicate the alignment of paragraph on the page.

**Activity(30 Minutes)**

<!DOCTYPE html>

<html>

<head>

<title>Heading Example</title>

</head>

<body>

<h1>This is heading 1</h1>

<h2>This is heading 2</h2>

<h3>This is heading 3</h3>

<h4>This is heading 4</h4>

<h5>This is heading 5</h5>

<h6>This is heading 6</h6>

<p>Here is a first paragraph of text.</p>

<hr />

<p>Hello<br />

You delivered your assignment ontime.<br />

Thanks<br />

Priya</p>

<p align="left">This is left aligned</p>

<p align="center">This is center aligned</p>

<p align="right">This is right aligned</p>

<a href="Hello.html">This is a link</a>

<img src=”ComputingKids.png” ="" alt="Alternate name for image" width="304" height="142">

</body>

</html>

**Assignment for the day-****45 Minutes**

[Home](file:///D:\Priya_ComputingKids_Workspace\Curriculum%20Development%20HTML,CSS%20&%20JavaScript\Home.html)|[Contact](file:///D:\Priya_ComputingKids_Workspace\Curriculum%20Development%20HTML,CSS%20&%20JavaScript\Contact.html)|[About](file:///D:\Priya_ComputingKids_Workspace\Curriculum%20Development%20HTML,CSS%20&%20JavaScript\About.html)

**Home Page**

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[Home](file:///D:\Priya_ComputingKids_Workspace\Curriculum%20Development%20HTML,CSS%20&%20JavaScript\Home.html)|[Contact](file:///D:\Priya_ComputingKids_Workspace\Curriculum%20Development%20HTML,CSS%20&%20JavaScript\Contact.htm)|[About](file:///D:\Priya_ComputingKids_Workspace\Curriculum%20Development%20HTML,CSS%20&%20JavaScript\About.html)

**Contact Details**

[Home](file:///D:\Priya_ComputingKids_Workspace\Curriculum%20Development%20HTML,CSS%20&%20JavaScript\Home.html)|[Contact](file:///D:\Priya_ComputingKids_Workspace\Curriculum%20Development%20HTML,CSS%20&%20JavaScript\Contact.html)|[About](file:///D:\Priya_ComputingKids_Workspace\Curriculum%20Development%20HTML,CSS%20&%20JavaScript\About.html)

**About Us**

What is Computing Kids?

Computing Kids is an educational enrichment program for children in grades K-8 in the Seattle and Eastside area.  
We partner with schools, community groups, and parents to bring computer programming classes to kids in a variety of settings.

**HTML Code**

**Home.html**

* <!DOCTYPE html>
* <html>
* <body>
* <a href="Home.html">Home</a>|<a href="Contact.html">Contact</a>|<a href="About.html">About</a>
* <h1>Home Page</h1>
* <p align=”center”>
* <img src="ComputingKids.png" alt="image" width="304" height="142">
* </p>
* </body>
* </html>

**Contact.html**

* <!DOCTYPE html>
* <html>
* <body>
* <a href="Home.html">Home</a>|<a href="Contact.html">Contact</a>|<a href="About.html">About</a>
* <h1>Contact Details</h1>
* </body>
* </html>

**About.html**

* <!DOCTYPE html>
* <html>
* <body>
* <a href="Home.html">Home</a>|<a href="Contact.html">Contact</a>|<a href="About.html">About</a>
* <h1>About Us</h1>
* What is Computing Kids?<hr>
* Computing Kids is an educational enrichment program for children in grades K-8 in the Seattle and Eastside area.<br> We partner with schools, community groups, and parents to bring computer programming classes to kids in a variety of settings.
* </body>
* </html>

**Revise Today’s Class-10 Minutes**