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# HTML



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# HTML OVERVIEW

- Introduction to the web design and its history;
- Introducing standard web software and scripting code, domain;
- Installing the basic software/applications required for this course;
- Introducing primary commands;
- Some exercises;
- Creation of a simple web page.

# HTML OVERVIEW

- What you need to know:
  - You need to know the main concept and a few small details
  - You also need to know where to find other information about the main concept.
- It is common for people to think they need to memorize every little detail. You may do this over time when you become accustomed with a language, but the most important thing for you to do is to remember the main concept and find information about the small details quickly.
- This is a general rule, as there might be something that you may need to remember small details about.



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# HTML OVERVIEW

- When you become familiar with languages it will become more fluent and you will have a lot of the data at your mental fingertips, but there will be something that you will eventually have to google.





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# HTML BASICS

# HTML BASICS

- What HTML stands for?
  - It stands for Hyper Text Markup Language.
- What does an HTML file do?
  - An HTML file determines the structure of a web page to a browser.
- How is an HTML file is constructed?
  - An HTML file consists of series of elements and tags.
  - Also, it tells the browser how to display and represent the contents on a Web page.

# HTML BASICS

- Create a folder Called “My\_first\_Webpage” for your project (this is called a directory)
- Open folder in VS Code
- Create a file called index.html (make sure it's all lower case)

# HTML BASICS

- The index.html is the main page for our website.
- It is best practice to call it index, even Facebook, Microsoft and other big companies do this.
- The .html part defines what type of file it is. If we call it .txt it will be a text file, if we call it .png it will be a png image.





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# HTML COMMENTS



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# HTML COMMENTS

- Comments in HTML are used the same way as any other coding language, to make notes to our teammates and future selves, But they are written different:

```
<!-- -->
```

```
<!-- This is a comment -->
```



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# HTML COMMENTS

- Short cut is:
- Ctrl + /

```
<!-- -->
```

```
<!-- This is a comment -->
```



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# HTML BOILERPLATE





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# HTML BOILERPLATE

```
HTML FILE
HEAD
<!DOCTYPE html>
<html lang="en">
<head>
  <title>I am title, but I will not appear on the page.</title>
</head>
<body>
  <h1>Everybody can see me on the page.</h1>

  <p>And everybody can see me too.</p>

  <ul>
    <li>And everybody</li>
    <li>can see us</li>
    <li>too!</li>
  </ul>

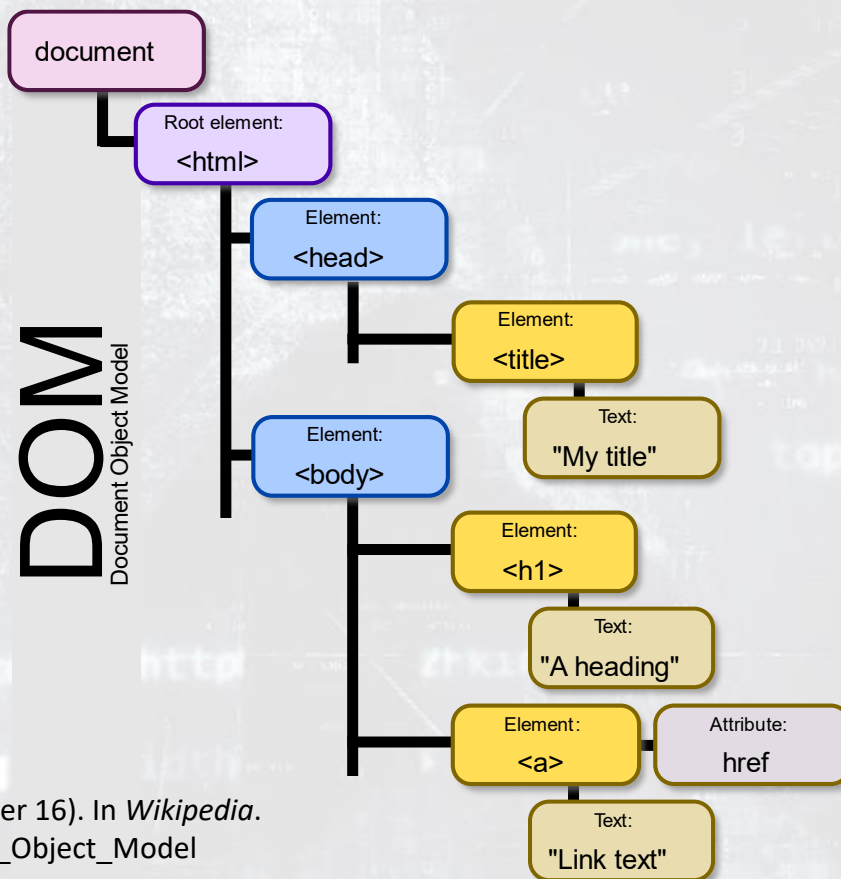
</body>
</html>
```



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# HTML BOILERPLATE - DOM



Document Object Model. (2022, December 16). In *Wikipedia*.  
[https://en.wikipedia.org/wiki/Document\\_Object\\_Model](https://en.wikipedia.org/wiki/Document_Object_Model)



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# HTML BOILERPLATE – DOCTYPE

- Doctype is used to tell the browser what type of document and what type of HTML is being used. This is the start the Document object model.
- We are currently using HTML 5

```
<!DOCTYPE html>
```



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# HTML BOILERPLATE – HTML

- The HTML tag is the root element of the page and is the second part in the document object model.

```
<html lang="en">
```

- HTML tags allow us to write HTML.
- lang="en" is how we can define the language on our page. En is English. You can change it to whichever language you would like depending on your userbase





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# HTML BOILERPLATE — HEAD

- The head tag is like the mind of a human. Our thoughts are unseen and so is the head tag. We don't see anything displayed on the page itself from the head.

<head>



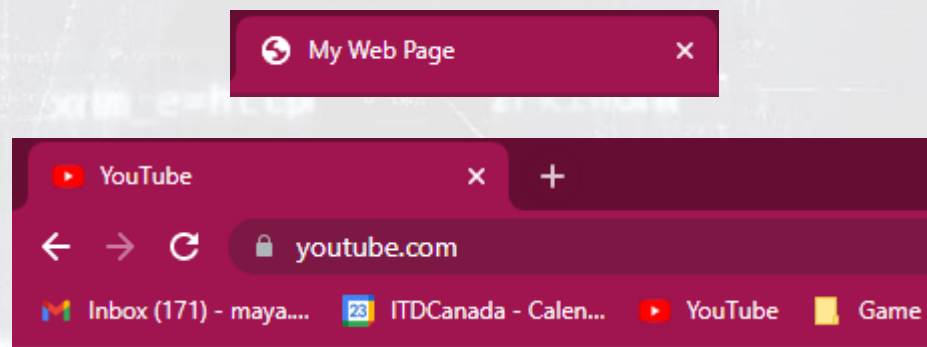
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# HTML BOILERPLATE – HEAD

- The title tag is stored in the head and is displayed off the page and on the tab of the page.

```
<title>My Web Page</title>
```





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# HTML BOILERPLATE — BODY

- The body tag is like the body of a human. This is what is displayed on the page. And is where we put the majority of our code.
- The body and Head tags are sibling tags and are in the same place on the DOM tree

```
<body>
```



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# HTML BOILERPLATE – BODY

- VS code Boilerplate shortcut
- (Shift + 1) = ! Then press tab
- Exercise:
  - Set up the html boiler plate





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# HTML ANATOMY

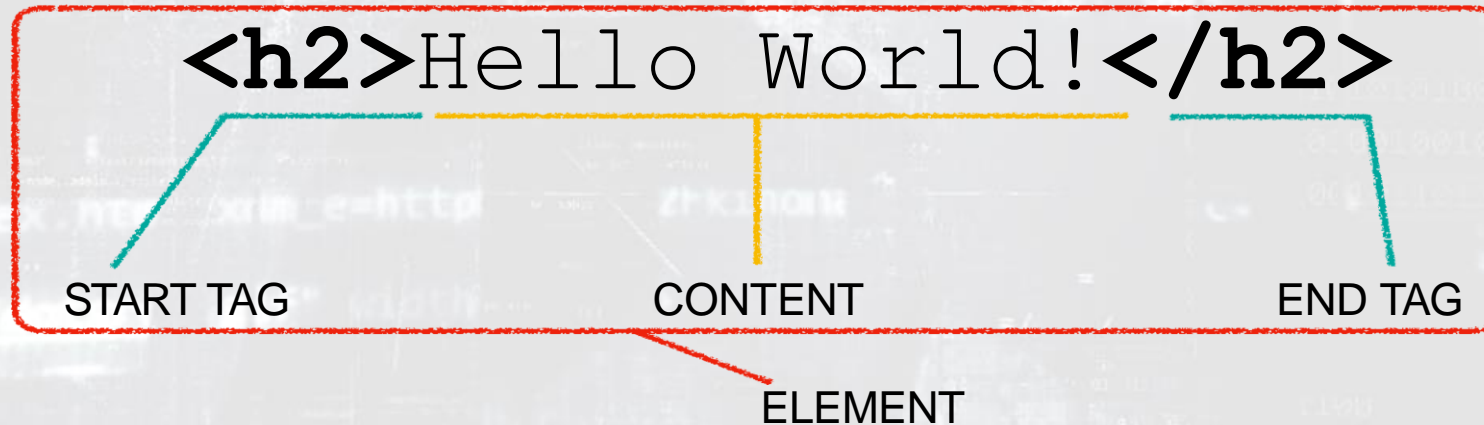


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# HTML BASICS – TAGS

- HTML is a markup language.
- Every single element inside an HTML file is identified by a tag.



# HTML BASICS — TAGS

- Every HTML tag is created with an opening angle bracket (<), writing the name of the tag that we want(h2), and closing the angle bracket (>).
- Most tags require an end tag as well, which identifies the end of that specific HTML element. An end tag is created using an opening angle bracket, writing slash (/), then writing the name of the tag, and closing the angle bracket.
- The purpose of the tag is to tell the browser which kind of element we want to display.

```
<h2>Hello, World</h2>
```



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# HTML BASICS – TAGS

## ANATOMY OF A TAG

### STARTING AN ELEMENT

**<h2>**



### ENDING AN ELEMENT

**</h2>**







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# HTML BASICS – TAGS

```
<h2>I am the content of the tag H2!</h2>
```

```
<p>I am the content of the tag p!</p>
```

```
<small>Look, I am another HTML element, and this is my content. My tag is small!</small>
```



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# HTML BASICS – TAGS OUTPUT

**I am the content of the tag H2!**

I am the content of the tag p!

Look, I am another HTML element, and this is my content. My tag is small!



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# HTML BASICS – EXERCISE

- Make an h2 tag and a p tag in your html (just like in the slides above)



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# HTML ANATOMY

## ATTRIBUTES





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# HTML BASICS – ATTRIBUTES

- Some tags do not require an end tag because they don't need any written content; these are standalone tags. If I use the `<img>` tag to display an image, for example, I just need to tell HTML where to find the image that I want. The end tag `</img>` does not exist.
- How can I tell it where to find the image that I want? By using attributes.
- An attribute is a detail inside a tag that adds useful (in some cases essential) information about that specific element.



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# HTML BASICS – ATTRIBUTES

- To add an attribute to an HTML tag, first you write the **attribute name**, followed by =, then you open a quotation mark (“or ‘), you write the **attribute value**, and you close the quotation mark (” or ’).

Diagram illustrating the structure of an HTML tag with attributes:

```

```

The diagram uses color-coding and brackets to identify the components of the tag:

- src="cherry.jpg"**: The word `src` is labeled "ATTRIBUTE NAME" (teal), and the value `"cherry.jpg"` is labeled "ATTRIBUTE VALUE" (pink).
- alt="Cherry"**: The word `alt` is labeled "ATTRIBUTE NAME" (teal), and the value `"Cherry"` is labeled "ATTRIBUTE VALUE" (pink).
- width="200px"**: The word `width` is labeled "ATTRIBUTE NAME" (teal), and the value `"200px"` is labeled "ATTRIBUTE VALUE" (pink).



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# HTML BASICS – ATTRIBUTES

- For elements that require a *start tag* and an *end tag*, the attribute **always** must be defined in the **start tag** - **never** in the end tag.

```
<a href="https://www.google.com">Go to Google</a>
```



ATTRIBUTE NAME

ATTRIBUTE VALUE



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# HTML BASICS – ATTRIBUTES

```
<a href="https://www.google.com">Go to Google</a>
```



[Go to Google](https://www.google.com)

```

```







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# HTML HEADING TAGS



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# HTML HEADING TAGS

- What is an h1 tag? How about an h2 tag?
- These tags define headings in our HTML code.
- There are 6 levels of headings:
  - h1, h2, h3, h4, h5, h6,



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# HTML HEADING TAGS

- Each can be used to define a heading at specific levels of your page
- For example, an H1 is used to define the main heading of that page. You should generally have only one h1 tag per page.



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# HTML HEADING TAGS

- Why are heading tags important? This is because web browsers will look for specific tags, they think are important to the page.
- If you put an unimportant title in your h1 tag, you end up misinforming the web browser.





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# HTML HEADING TAGS

- Make a new folder (directory) in the ICR120
- Call it My\_Headings
- Make a new index.html file
- And add 6 heading (h1-h6) tags with the words:
- “I am the content of \_\_\_\_” fill in the tag name



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# HTML HEADING TAGS

- Add the following to your Body

```
<body>  
  <h1>I am the content of the tag H1!</h1>  
  <h2>I am the content of the tag H2!</h2>  
  <h3>I am the content of the tag H3!</h3>  
  <h4>I am the content of the tag H4!</h4>  
  <h5>I am the content of the tag H5!</h5>  
  <h6>I am the content of the tag H6!</h6>  
</body>
```



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# HTML PARAGRAPH TAGS



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# HTML PARAGRAPH TAGS

- P tags are used to write paragraphs.

```
<p></p>
```



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# HTML PARAGRAPH TAGS

- Make a p tag in the body and write: “This is my first paragraph. I am going to show you how to convert a hexadecimal number to binary...”

```
<p></p>
```





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# HTML PARAGRAPH TAGS

- Now add some lorem ipsum to the p tag
- You can start typing lorem + tab

```
<p>Lorem ipsum, dolor sit amet consectetur adipisicing elit. Vel totam necessitatibus iure dolorum  
beatae quod recusandae, voluptas alias cumque nulla suscipit, molestiae eos sit officiis? Tempora  
dolorum consequatur soluta illum!</p>
```

- Or go to this site
  - <https://loremipsum.io/>



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# HTML PARAGRAPH TAGS

- Lorem Ipsum is “Dummy” or “Filler” text. We use it when we are designing layouts. It has been used since the 15<sup>th</sup> century for this purpose

```
<p>Lorem ipsum, dolor sit amet consectetur adipisicing elit. Vel totam necessitatibus iure dolorum  
beatae quod recusandae, voluptas alias cumque nulla suscipit, molestiae eos sit officiis? Tempora  
dolorum consequatur soluta illum!</p>
```



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# HTML BR TAGS



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# HTML BR TAGS

- <br> tags move everything after the <br> to the next line:

```
<p>Lorem ipsum, dolor sit amet consectetur adipiscing elit. Vel totam necessitatibus iure dolorum  
beatae quod recusandae, voluptas alias cumque nulla suscipit,<br> molestiae eos sit officiis? Tempora  
dolorum consequatur soluta illum!</p>
```





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# HTML ELEMENT VS TAG





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# HTML ELEMENT VS TAG

- You may hear these words used interchangeably.
- A tag is either, not both, the ending or beginning of an element.
- So a `<h1>` is a starting tag. A `</h1>` is an ending tag
- An element is the everything all together
- `<h1>Hello, Element</h1>`



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# HTML

## INLINE VS BLOCK



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# HTML INLINE VS BLOCK

- You may notice that some tags go across the page while others go down. This is because there are two types of tags in HTML:

1. Inline
2. Block

# HTML INLINE VS BLOCK

## 1. Inline:

- Inline elements goes across the page. Think about it as “in a line”
- Some examples of these are:
  - `<a>` `<dfn>` `<abbr>` `<em>` `<acronym>` `<b>` `<bdo>` `<label>` `<button>`  
`<map>` `<cite>` `<code>` `<output>` `<q>` `<i>` `<img>` `<small>` `<strong>`  
`<object>` `<time>` `<script>` `<select>` `<span>` `<sub>` `<sup>` `<textarea>`



# HTML INLINE VS BLOCK

## 1. Block:

- Block elements goes down the page. Think about it as blocks get stacked on each other.
- Some examples of these are:
  - <address> <figcaption> <article> <figure> <aside> <footer>  
<blockquote> <form> <h1>-<h6> <header> <hr> <dl> <dt> <main>  
<fieldset> <nav> <ul> <noscript> <ol> <pre> <canvas> <section> <dd>  
<table> <div> <tfoot> <video> <p> <li> <br>





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# HTML FORMATTING

# HTML FORMATTING

- When we start adding elements to our body, We use what is called nesting. Nesting is the process of putting elements in elements.
- It's kind of a like matryoshka dolls (muh·tree·owsh·kuh)





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# HTML FORMATTING

- Remember: when you nest HTML elements (one element inside another one), be sure to close the inner element while you are still inside the outer element. Like this:

```
<main>

  <p>I am a paragraph inside a div!</p>

  <h1>Hey, I am a H1 inside a div too.</h1>

  <article>

    <p>And what about me, a paragraph inside a div which is inside a div?</p>

  </article>

</main>
```

- Pay attention to the position of the start tag and the end tag of each element: make sure they never cross.



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# HTML SEMANTIC TAGS



# HTML SEMANTIC TAGS - DIV

- Div tags divide and compartmentalize parts of our website into pieces. Div's have no direct effect on the webpage, but they make it easier to style and organize websites.
- Years ago, in web development it was common to solely use a div tag to break up parts of our website. We still use them, and we will be using them once we get to CSS.





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# HTML SEMANTIC TAGS

- These days HTML 5 comes with specific names that identify specific parts of a webpage. Many you have likely heard of; header, footer, navbar, etc...
- These have similar effects to div tags but use words to describe what they are containing.



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# HTML SEMANTIC TAGS

- Some of the most common semantic tags are:
- <header>
- <nav>
- <footer>
- <main>
- <section>
- <article>
- <details>
- <figure>
- <figcaption>
- <aside>
- <mark>
- <summary>
- <time>

# HTML SEMANTIC TAGS

- Why use semantic tags?

1. It's easier for other people on your team to read.
2. It's easier for search engines to read

[https://www.w3schools.com/html/html5\\_semantic\\_elements.asp](https://www.w3schools.com/html/html5_semantic_elements.asp)

# HTML SEMANTIC TAGS

- Exercise
- Make a new directory (folder) called Cleaning\_Site
- Make an index.html file and add:
- Make a header, main, and footer tag.
- In the header add an h1 tag
- In the main have a h2 tag and a p tag
- In the footer have an h3 tag and an unordered list.  
(look up lists)





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# HTML SPAN





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# HTML SPAN

- Just like a div tag we can use a span tag to add CSS to our inline elements. We will do this once we get to CSS
- This is the `<span>coolest</span>` inline tag
- `<em>`
- `<strong>`



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# HTML LIST TAGS



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# HTML LIST TAGS

- There are a few different list tags we can use:

1. Unordered List
2. Ordered List
3. Description List



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# HTML LIST TAGS

- In all list tags we have to nest. We start with the tag that defines what type of list it is:

```
<ul></ul> <!-- Unordered List -->  
<ol></ol> <!-- Ordered List -->  
<dl></dl> <!-- Description List -->
```



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# HTML LIST TAGS

- Then we add the list tag

```
<ul><!-- Unordered List -->
| <li></li><!-- List Tag -->
</ul>

<ol><!-- Ordered List -->
| <li></li><!-- List Tag -->
</ol>

<dl><!-- Description List -->
| <dt></dt><!-- List Tag -->
| <dd></dd>
</dl>
```





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# HTML LIST TAGS – UNORDERED LIST

- Unordered lists are a list that has a bullet point, and it doesn't matter the order
- What I had for breakfast:
  - Tea
  - Pancakes
  - Eggs
  - Chicken sausage



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# HTML LIST TAGS — UNORDERED LIST

- Create a new directory(folder) called Lists with index.html
- Add the below list:

```
<h3>What I had for breakfast:</h3>
<ul>
  <li>Tea</li>
  <li>Pancakes</li>
  <li>Eggs</li>
  <li>Chicken sausage</li>
</ul>
```



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# HTML LIST TAGS — ORDERED LIST

- Unordered lists are a list that has a bullet point, and it doesn't matter the order, but ordered lists are numerical
- My top favorite books:
  1. The Law of Success
  2. How To Win Friends and Influence People
  3. Hitchhikers Guide to the Galaxy
  4. The Magic of Believing
  5. Star Wars Darth Bane Trilogy
    1. Path of Destruction
    2. Rule of Two
    3. Dynasty of Evil



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# HTML LIST TAGS — ORDERED LIST

```
<h3>My top favorite books:</h3>
<ol>
  <li>The Law of Success</li>
  <li>How To Win Friends and Influence People</li>
  <li>Hitchhikers Guide to the Galaxy</li>
  <li>The Magic of Believing</li>
  <li>Star Wars Darth Bane Trilogy</li>
</ol>
```





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# HTML LIST TAGS — ORDERED LIST

- You can also have a list in a list

```
<h3>My top favorite books:</h3>
<ol>
  <li>The Law of Success</li>
  <li>How To Win Friends and Influence People</li>
  <li>Hitchhikers Guide to the Galaxy</li>
  <li>The Magic of Believing</li>
  <li>Star Wars: Darth Bane Trilogy:</li>
  <ol>
    <li>Path of Destruction</li>
    <li>Rule of Two</li>
    <li>Dynasty of Evil</li>
  </ol>
</ol>
```



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# HTML LIST TAGS - DESCRIPTIVE LIST

- Descriptive lists

- These lists are lists with a built in sub titles.
- They allow us to define the a subject and other information associated with that subject

- `<h3>Beverages</h3>`:

- Coffee
  - A black beverage that contains caffeine
- Tea
  - A leaves of different color, black, green, white etc... that contains caffeine
- Soda
  - Basically poison...



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# HTML LIST TAGS - DESCRIPTIVE LIST

```
<h3>Beverages:</h3>
<dl>
  <dt>Coffee</dt>
  <dd>A black beverage that contains caffeine</dd>
  <dt>Tea</dt>
  <dd>Different color leaves that contains caffeine</dd>
  <dt>Soda</dt>
  <dd>Basically poison...</dd>
</dl>
```

# HTML LIST TAGS

- Exercise:
- Choose the correct list either ul, ol, dl:
  1. Make a list of your dreams and goals
  2. Make a list of programming languages and give a small description of each
  3. Make a list of billboard top 5 hits for a specific week





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# HTML IMAGES



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# HTML IMG TAGS

- Image tags allow us to display images on the website
- We can do this two ways:
  1. You can link to a local directory (folder)
  2. You can connect to an image on a website



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# HTML IMG TAGS – LOCAL

- Make a new directory called html\_images
- Make a new index.html file
- To add images into your local directory start by adding a folder called “img”.
- Then add the image you want to the img folder.



```
> ls  
img
```

# HTML IMG TAGS — LOCAL

- Then add the img tag to your page.
- To connect to a local directory (folder) add the file location into the src attribute.
- Then add the name of the image to the alt attribute. This helps other programs identify what the image is.
- Notice how we don't have a closing tag? This is because we don't put content in the tag, just link to the content.

```

```





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# HTML IMG TAGS – WEB

- To connect to an image that is from the web, right click on the image and copy image address. Then paste in the src attribute.
- Not every image will allow you to do this though, but many on google images will.

```

```



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# HTML IMG TAGS – WEB

- Exercise:
- Add an image to you page of a place you may want to visit some day.
- Connect it via a local folder.
- Add an image of a car or home of your dreams
- Connect via a image address.



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# HTML IMAGES

## Size



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# HTML IMG TAGS – SIZE

- There are a few ways to change the size of your image
  1. In the HTML tag
  2. Using CSS (this we will talk about later)





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# HTML IMG TAGS – SIZE HTML

- You can change the size of your image by adding width and height attributes to your <img> tag.
- Do you notice anything that may cause an issue with the below attributes?

```

```





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# HTML IMG TAGS – SIZE HTML

- To define size we can use percent (%) or pixels (px).
- It is generally a good idea to only define the height or the width not both, if you define both it may cause a distortion of the image.

```

```



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# HTML IMG TAGS

- Image formats:
- [https://developer.mozilla.org/en-US/docs/Web/Media/Formats/Image\\_types](https://developer.mozilla.org/en-US/docs/Web/Media/Formats/Image_types)



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# HTML IMG TAGS

1. Define the size of your image
  - Play with height and width, make your image distorted
2. Make your image size with percent and with pixels. Resize the web browser and see what happens



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# HTML IMG TAGS – WEB

- Exercise:
- Add an image to the service website and make it 100%



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# HTML VIDEO TAGS

## LOCAL





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# HTML VIDEO TAGS

- Just like images we need to make a folder to put our videos. This is generally called videos.
- In the cleaning site:
- Make a folder called videos

```
<video width="300" controls>  
  <source src="Video/Video.mov" type="">  
</video>
```



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# HTML VIDEO TAGS

- Video tags unlike image tags have opening and closing tags. They also have a source tag as the content.

```
<video width="300" controls>  
  <source src="Video/Video.mov" type="video/mov">  
</video>
```



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# HTML VIDEO TAGS

- We can define the width and height attributes for our videos.
- If you want to have play buttons and sliders, you have to add the controls attributes.

```
<video width="300" controls>  
  <source src="Video/Video.mov" type="video/mov">  
</video>
```



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# HTML VIDEO TAGS

- To add the video, you add the file path into the src attribute.

```
<video width="300" controls>  
  <source src="Video/Video.mov" type="video/mov">  
</video>
```





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# HTML VIDEO TAGS

- Type attribute defines the type. This is for accessibility and bots.

```
<video width="300" controls>  
  <source src="Video/Video.mov" type="video/mov">  
</video>
```





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# HTML VIDEO TAGS

- Exercise:
- Go to Pixabay, download a short video. Add it to your site.



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# HTML VIDEO TAGS

## YOUTUBE



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# HTML VIDEO TAGS

- It's common to see YouTube videos embedded on websites.
- YouTube makes this really easy for us:
  1. Go to the YouTube video you would like to embed
  2. Click share
  3. Click embed
  4. Click Copy
  5. Paste In HTML file



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# HTML VIDEO TAGS

- The tag we use is an iframe tag and is a tag specifically used to embed media from other sites into our own.



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# HTML A TAGS TO ANOTHER SITE





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# HTML A TAGS

- `<a>` tags are hyperlinks, They allow us to link to other web pages
- Most `<a>` tags have an attribute called href, this stands for hyperlink reference and is where we define where the `<a>` tag takes us

```
<a href="https://www.google.com">Google</a>
```



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# HTML A TAGS

- `<a>` tags:
  - When unused are blue
  - When used are purple
  - When active (currently being clicked on) are red.
- All a tags come underlined, and we can change this in CSS

```
<a href="https://www.google.com">Google</a>
```



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Google

Google

Google



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Google

Google

Google





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# HTML A TAGS

## • Exercise:

1. Make a new directory called hyperlinks in
2. Add an index.html
3. Add an <a> tag that takes you to apples website

```
<a href="https://www.google.com">Google</a>
```





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# HTML A TAGS FOLDERS



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# HTML A TAGS

- When we make websites, its common to have more than one page, we have to link these pages together so we have a cohesive site.
- We can use `<a>` tags to create this cohesion.



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# HTML A TAGS

- Make a new html file beside(inside the same folder) the index.html
- Call it page2.html
- Add the boiler plate
- Change the <title> to Page 2
- Add an h1 tag
- In the h1 write Hello, Page 2



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# HTML A TAGS

- We can link to our page2.html by using an `<a>` tag
- You can use `./page2.html` or `page2.html`
  - `./` is used to indicate the same folder(directory)

```
<a href="page2.html">Page2</a>
```

Or

```
<a href="./page2.html">Page2</a>
```



# HTML A TAGS

- Make a new folder (directory)
- Call it MyThirdPage
- Add a page3.html
- Add boilerplate
- Change title, add h1 with “Hello, Page3”
- Add an a tag that links:
  - index.html to page 3 and page 2 to page 3
  - page 3 to page 2 and page 3 to index.html (we haven’t do this yet but give it a try)



# HTML A TAGS

- How do I link to other folders(directories)?
- If we want to go into a directory, we can just write `./MyThirdPage/page3.html`
- If we want to leave a directory we write `../index.html`
  - This is our starting point `./`
  - If we add another `.` Infront of `./` we get `../`
  - This moves us from the directory we are in to the directory containing the current directory.

# HTML A TAGS

- Main\_Directory > index.html + page2.html
  - MyThridPage > Page3.html
- To access any directory your page is in use ./
- To access the directory your directory is in, use ../

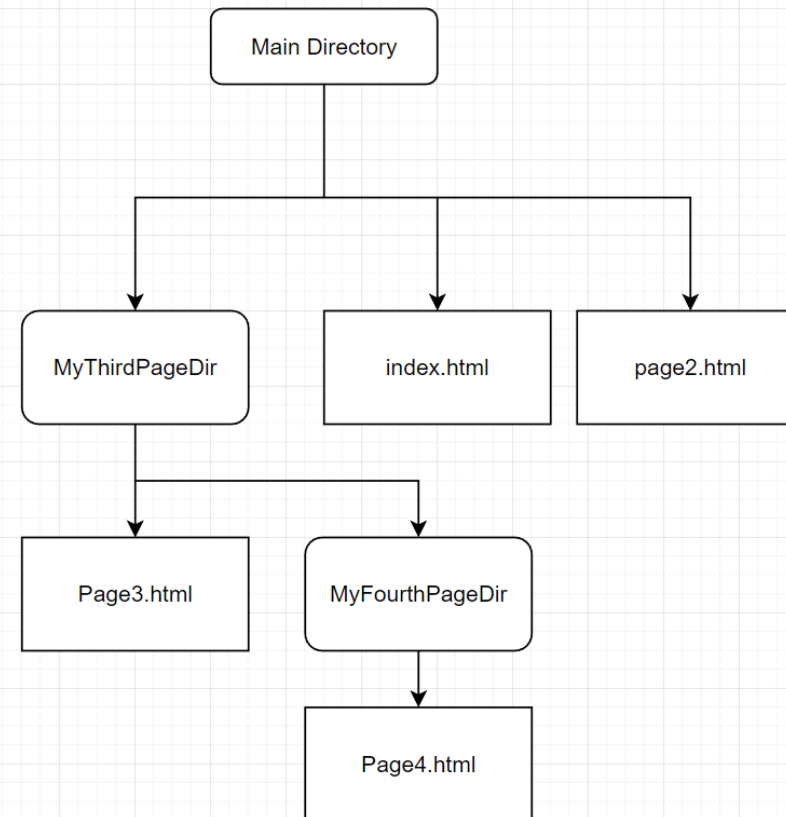


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# HTML A TAGS

- Add a forth directory with page4.html
- Connect page 4 to all the other pages and all the other pages to page 4





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# HTML A TAGS TARGET = BLANK





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# HTML A TAGS

- Open new tag when you click
- When someone is leaving your website its beneficial to create a new tab because:
- It allows the user easy access back to your site
- Company's want you to keep seeing their tabs





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# HTML A TAGS

- target=“\_blank”
- If someone is leaving your site, use target blank or \_blank. If they are navigating in your site to another page then don't use target attribute.



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# HTML A TAGS

## PHONES EMAILS AND IMAGES, OH MY!



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# HTML A TAGS

- When you click on a phone number it will open your phone.
- How does it do this?
- Its quite similar to the way we link to a website.
- [tel:](tel:555-555-5555) then the number

```
<a href="tel:555-555-5555">Call Now!</a>
```



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# HTML A TAGS

- You can do the same with emails
- mailto: email address

```
<a href="mailto:maya.kali@itdcanada.ca">Send Email</a>
```



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# HTML A TAGS

- To make an image into a link put the image tag as the content of the a tag

```
<a href="https://google.com">  
    
</a>
```





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# HTML SPECIAL CHARACTERS



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# HTML SPECIAL CHARACTERS

- [https://www.w3schools.com/html/html\\_symbols.asp](https://www.w3schools.com/html/html_symbols.asp)



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# HTML SPECIAL CHARACTERS

- Exercise:
  - Add a copyright symbol to your page



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# FORMS





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# HTML FORMS

- Forms are used to take data from our users.
- There are different inputs we can use to take in user data.



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# HTML FORMS

## • Common ways to take data into forms:

1. Text boxes
2. Radio buttons
3. Checkboxes
4. Dates
5. Range
6. Selectors



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# HTML FORMS

- Set up a new directory in ICR120 called forms make an index.html file and a second called contact.html
- Link from your index.html to your contact.html and vice versa.



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# HTML FORMS

- To set up a form, you need to use a form semantic tag (the action will auto-populate):

```
<form action="">  
  
</form>
```





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# FORMS

## TEXTBOX



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# HTML FORMS - TEXTBOX

- Add an input tag into the form:

```
<form action="">  
|      | <input type="text">  
</form>
```



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# HTML FORMS - TEXTBOX

- Add a title in front of the input:

```
<form action="">  
| | Give Me Your Data: <input type="text">  
</form>
```



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# HTML FORMS - TEXTBOX

- Add a title in front of the input:

```
<form action="">  
| | Give Me Your Data: <input type="text">  
</form>
```





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# HTML FORMS - TEXTBOX

- You can also add a placeholder attribute:

```
<form action="">  
  Give Me Your Data: <input type="text" placeholder="Private Data">  
</form>
```



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# HTML FORMS - TEXTBOX

## • Exercise:

- Make a form that takes in a First name and Last name. Include a placeholder with an example name like John Doe.
- Try to add an input that uses “email” type instead of “text”



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# HTML FORMS - TEXTBOX - LABELS

- Labels are used to help screen readers and make our websites more accessible



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# HTML FORMS - TEXTBOX - LABELS

- You can add a label like we did above, or you can use a label tag
- Fill in the for attribute with the same name as the name attribute

```
<form action="">  
  <label for="userData">Give Me Your Data:</label><br>  
  <input type="text" name="userData" placeholder="Private Data">  
</form>
```





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# HTML FORMS - TEXTBOX - LABELS

- Add a label to your first name and last name



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# FORMS

## LEGEND TAG



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# HTML FORMS - LEGEND

- Legend tags are headings for forms.
- You can use legend tags for groupings of inputs like radio buttons, checkboxes and related textbox inputs



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# HTML FORMS - LEGEND

- Add a legend tag to your first name last name inputs and call it personal information.



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# FORMS

## RADIO





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# HTML FORMS - RADIO BUTTONS

- Radio buttons give us the ability to toggle between different responses. You can only have one selection in a radio group. When you select one all others deselect.

```
<p><input type="radio" name="yesNo" value="yes"/>Yes?</p>  
<p><input type="radio" name="yesNo" value="no"/>No?</p>  
<p><input type="radio" name="yesNo" value="maybe"/>Maybe?</p>
```



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# HTML FORMS - RADIO BUTTONS

- You use the name attribute to create a radio group. As long as they have the same name, the button will toggle between them
- Try changing one of the names

```
<p><input type="radio" name="yesNo" value="yes"/>Yes?</p>
```

```
<p><input type="radio" name="yesNo" value="no"/>No?</p>
```

```
<p><input type="radio" name="yesNo" value="maybe"/>Maybe?</p>
```



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# HTML FORMS - RADIO BUTTONS

- The value attribute is what tells the programs we write in JavaScript about the selection that is chosen
- If no is chosen, that data will be sent to JS

```
<p><input type="radio" name="yesNo" value="yes">Yes?</p>  
<p><input type="radio" name="yesNo" value="no">No?</p>  
<p><input type="radio" name="yesNo" value="maybe">Maybe?</p>
```



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# HTML FORMS - RADIO BUTTONS

- Add a label and legend:





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# HTML FORMS - RADIO BUTTONS

- Add a label:

```
<p><input type="radio" name="yesNo" value="yes"/><label for="yes"> Yes?</label></p>
<p><input type="radio" name="yesNo" value="no"/><label for="no"> No?</label></p>
<p><input type="radio" name="yesNo" value="maybe"/><label for="maybe"> Maybe?</label></p>
```





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# HTML FORMS - RADIO BUTTONS

- Default checked:

```
<p><input type="radio" name="yesNo" value="yes"/><label for="yes"> Yes?</label></p>
<p><input type="radio" name="yesNo" value="no" checked/><label for="no"> No?</label></p>
<p><input type="radio" name="yesNo" value="maybe"/><label for="maybe"> Maybe?</label></p>
```



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# HTML FORMS - RADIO BUTTONS

- Exercise:
  - Make a radio button for what kind of Ice-cream you would like to choose:
  - Chocolate, Vanilla, Rocky Road... Or whatever you want
  - Give it a default checked



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# FORMS

## CHECKBOXES



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# HTML FORMS - CHECKBOXES

- Checkboxes are akin(similar) to radio buttons but with one caveat(difference), You can choose more than one option.
- You can select all checkboxes if you want or just one or even none.



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# HTML FORMS - CHECKBOXES

- Try to make a check box on your own:
- With four pets you would like to have.





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# HTML FORMS - CHECKBOXES

```
<legend>Pick the animals you would have as pets if you could:</legend>
<p><input type="checkbox" name="Pet" value="Cat" />Cat</p>
<p><input type="checkbox" name="Pet" value="Dog" checked />Dog</p>
<p><input type="checkbox" name="Pet" value="Bird" />Bird</p>
<p><input type="checkbox" name="Pet" value="Aardvark" />Aardvark</p>
```



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# FORMS SELECTIONS



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# HTML FORMS - SELECTION

- Another way to take user decisions is with selections. These are drop down menus with different options.



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# HTML FORMS - SELECTION

- This is a bit different than radio buttons and checkboxes. With selections we have a select tag:

```
<select name="" id="">  
  
</select>
```



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# HTML FORMS - SELECTION

- In the select tag we put in the option tag

```
<select name="" id="">  
  <option value="">MyOption1</option>  
</select>
```





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# HTML FORMS - SELECTION

- You can put as many options as you need

```
<select name="" id="">  
  <option value="">MyOption1</option>  
  <option value="">MyOption2</option>  
  <option value="">MyOption3</option>  
</select>
```



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# HTML FORMS - SELECTION

- When making your first option its generally recommended to write something like this:

```
<select name="" id="">  
  <option value="">Select</option>  
  <option value="MyOption1">MyOption1</option>  
  <option value="MyOption2">MyOption2</option>  
  <option value="MyOption3">MyOption3</option>  
</select>
```



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# HTML FORMS - SELECTION

- Write something generic like “Select” and leave the value empty. This is important because

```
<select name="" id="">  
  <option value="">Select</option>  
  <option value="MyOption1">MyOption1</option>  
  <option value="MyOption2">MyOption2</option>  
  <option value="MyOption3">MyOption3</option>  
</select>
```



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# HTML FORMS - SELECTION

- Exercise:
  - Make a select menu that has different types of smartphones.



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# FORMS

## SELECTIONS - OPTGROUP





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# HTML FORMS – SELECTION - OPTGROUP

- You may need to add a label for specific groupings in your selector.
- You can do this by adding the `<optgroup>` tag and nesting the options inside



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# HTML FORMS – SELECTION - OPTGROUP

```
<select name="ProgrammingLanguages" id="selector">
  <option value="">Select</option>
  <optgroup label="Curly-Brace">
    <option value="Java">Java</option>
    <option value="Cpp">C++</option>
    <option value="JavaScript">JavaScript</option>
  </optgroup>
  <optgroup label="Non-Curly-Brace">
    <option value="Python">Python</option>
    <option value="VisualBasic">Visual Basic</option>
  </optgroup>
</select>
```



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# HTML FORMS - SELECTION

- Exercise:
  - Add specific brands labels to the smartphone select.
    - Example:
      - hone
        - iPhone 12
      - Samsung:
        - Galaxy
      - Motorola
        - Edge



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# FORMS

## BUTTON



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# HTML FORMS – SUBMIT BUTTONS

- Submit buttons to send your form.
- Submit buttons can be done in two ways :
  - Input
  - Button

```
<p><input type="submit" name="" value="Send"></p>
```

OR

```
<button type="submit">submit</button>
```





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# HTML FORMS – RESET BUTTONS

- Reset Buttons will reset the form to default.

```
<button type="reset">Reset</button>
```



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# TABLES BASICS



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# HTML TABLES

- When we want to represent data to our users, it can be useful to display the data in a table format.
- This is called tabular data.
- Think to yourself, “Can I show this on a spreadsheet?”. If the answer is yes, you can use a table



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# HTML TABLES

- Create a new file called table.html
- Link to your index.html and back.





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# HTML TABLES

- Some examples:
- <https://www.canada.ca/en/revenue-agency/services/tax/individuals/frequently-asked-questions-individuals/canadian-income-tax-rates-individuals-current-previous-years.html>
- <https://www2.gov.bc.ca/gov/content/employment-business/employment-standards-advice/employment-standards/statutory-holidays>





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# HTML TABLES

- To make a table we first add a table tag

```
<table></table>
```



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# HTML TABLES

- Next, we nest the `<tr>` (table row) in the table tag
- The tr tag is used to define each row of our tables

```
<table>  
|   <tr></tr>  
</table>
```



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# HTML TABLES

- In the tr tag we nest our Columns
- Th is table header
- Td is table data

```
<table>
  <tr>
    <th>Header 1</th>
    <th>Header 2</th>
    <th>Header 3</th>
  </tr>
  <tr>
    <td>Column 1 Row 1</td>
    <td>Column 2 Row 1</td>
    <td>Column 3 Row 1</td>
  </tr>
  <tr>
    <td>Column 1 Row 2</td>
    <td>Column 2 Row 2</td>
    <td>Column 3 Row 2</td>
  </tr>
</table>
```



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# HTML TABLES

- Exercise:
- Make a table for a customer
- Include First Name, Last Name, Address, customer ID



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# TABLES SEMANTICS





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# HTML TABLES

- Some semantic tags we can use in our table are
- <thead>
- <tbody>
- <tfoot>



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# HTML TABLES

- `<thead>`, `<tbody>`, `<tfoot>` don't directly affect the table, but are like a div or main tag where we can style them. They can also be used for accessibility for the visually impaired.



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# HTML TABLES

- Add a thead on the headers
- Add a tbody for the data



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# TABLES FORMATTING



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# HTML TABLES

- Formatting tables can be done on either HTML or CSS
- It is most common to do it on CSS and some of the attributes are being deprecated in HTML.
- *<https://developer.mozilla.org/en-US/docs/Web/HTML/Element/td>*



# HTML TABLES

- Common formatting still used in HTML
  - *Colspan*
  - *Rowspan*
  - *Cellpadding \*\* Depending who you ask this generally shouldn't be used*
  - *Cellspacing \*\* Depending who you ask this generally shouldn't be used*
- Colspan makes a column go across a specific amount of columns
- Rowspan makes a row go down a specific amount of rows
- Cellpadding adds internal space into the cell.
- Cellspacing adds space between cells



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# HTML TABLES

```
<table cellpadding="10" cellspacing="5">
  <thead>
    <tr>
      <th colspan="3">Date</th>
      <th rowspan="2">Header 1</th>
      <th rowspan="2">Header 2</th>
      <th rowspan="2">Header 3</th>
    </tr>
    <tr>
      <th>Year</th>
      <th>Month</th>
      <th>Day</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <td>1990</td>
      <td>02</td>
      <td>18</td>
      <td>Column 1 Row 1</td>
      <td>Column 2 Row 1</td>
      <td>Column 3 Row 1</td>
    </tr>
    <tr>
      <td>1975</td>
      <td>05</td>
      <td>17</td>
      <td>Column 1 Row 2</td>
      <td>Column 2 Row 2</td>
      <td>Column 3 Row 2</td>
    </tr>
  </tbody>
</tfoot></tfoot>
</table>
```



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# TABLES CAPTION



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# HTML TABLES

- Caption is a tag that we can use to define a table title
- It must be the first element in a table
- Caption should be styled using CSS



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# EXTRAS





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# ID ANCHORS



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# ID & ANCHOR

- An anchor link is a link that helps to link to the content on the same page that has an anchor attached.
- `<h1 id="main-heading">Believe</h1>`



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# FAVICON



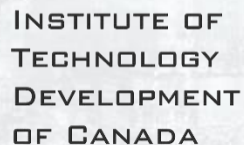
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# FAVICON

- `<link rel="shortcut icon" type="image/jpg" href="images/alchemy.jpg">`





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