

Assignment 2

Build This Simple Webpage

LIB2024 - Internet Applications

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Introduction

For the purposes of this assignment, my goal is to achieve a clear understanding of HTML, and CSS relationships as well as the detailed implementation of CSS.

Overall, there are separate sections that have different usages and approaches. By structuring this webpage in a specific way, I expect that my knowledge of what it takes to build a website will improve.

It took some time to understand some of the CSS properties and values I had to apply for the assignment. I still find some of the CSS elements applied in the webpage, such as pseudo-elements, difficult to understand. It will take more practice to understand them properly.

Taking the four sections of the webpage into account, three of them were relatively intuitive. This was not the case, however, for the second section, the word wrap. I spent a lot of time finding a tool or an attribute to position the word wrap in the middle of the second section. Most of the examples describe it as left-aligned, or right-aligned. It was fantastic to find an example that had two images in the middle overlapping, but I still had a long way to go to adjust the size and alignment of the webpage.

The title:

Required Effect:

- Bold outline with a large font title

Implementation:

- Set up the **border** as a **solid thick black value** to set the border.

<html>

```
<div class="title">
|   <h1>START THIS YEAR WITH A VIBRARY ECO-FRIENDLY ENERGY</h1>
</div>
```

<CSS>

```
/* add up solid border */
.title {
  border: solid thick black;
  text-align: center;
  line-height: 30px;
}
```

**START THIS YEAR WITH A VIBRARY ECO-FRIENDLY
ENERGY**

The word wrap in div

Required Effect:

- Align right and left sections to have word-wrap circle images in the center

Implementation:

- There would be several ways to implement this effect, and I searched through internet sources, and learned a widely used one.
- First apply class container in div by using display property and flex value, and align.

<CSS>

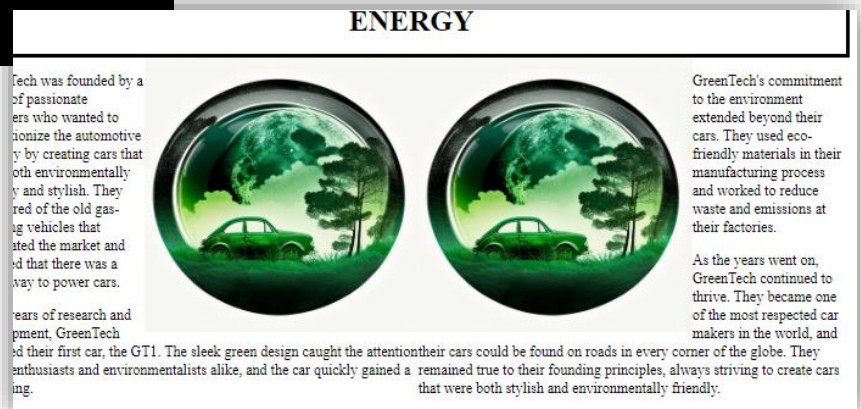
```
.container {  
  display: flex;  
}
```



- The inside of the div element with the class container, there are two divs, as left-section class and the right-section class, and they both have individual images and paragraphs, eventually those separated images will be merged together (at least visually).
- The images should have a float property so push the words away, (in this case float to right for the left section, and left for the right section).

<CSS>

```
.left-section img {  
  float: right;  
  clear: right;  
}  
  
.right-section img {  
  float: left;  
  clear: left;  
}
```



- Now set the two images to be merged together by setting the margin property with the proper value

<CSS>

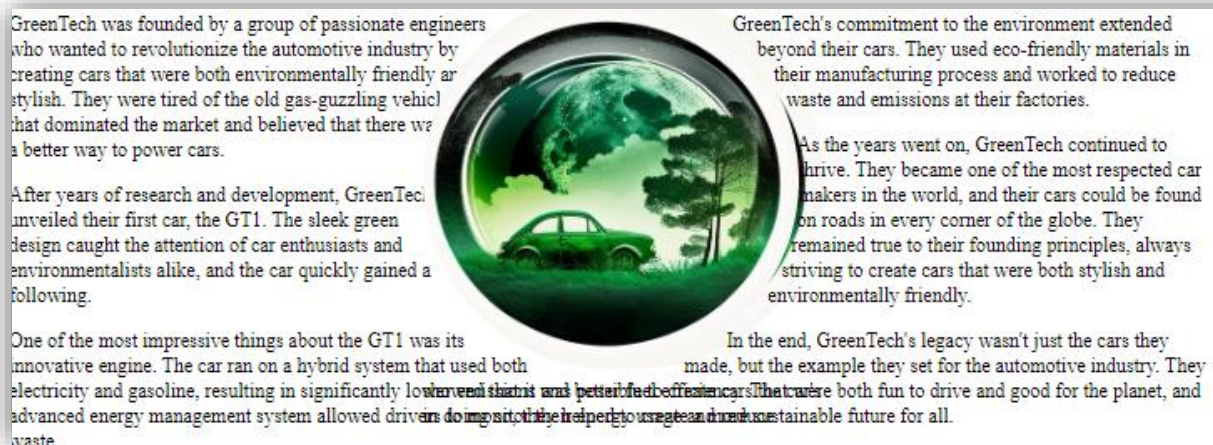
```
.right-section {
  margin-left: -320px;
}
```



- The image is rectangular, so change the shape to a circle having **border-radius**, as well as to have a word wrap circled by setting **shape-outside**

<CSS>

```
.wrap-img {
  margin: 0px;
  border-radius: 50%;
  shape-outside: circle(50%);
}
```



- Currently the paragraphs are both merged as well, so separate them by having each individual margin for the paragraphs

<CSS>

```
2 /* Because I put margin left as -320, the word pa
3 .left-paragraph {
4     margin-right: 180px;
5 }
6
7 .right-paragraph {
8     margin-left: 180px;
9 }
10
```

GreenTech was founded by a group of passionate engineers who wanted to revolutionize the automotive industry by creating cars that were both environmentally friendly and stylish. They were tired of the old gas-guzzling vehicles that dominated the market and believed that there was a better way to power cars.

After years of research and development, GreenTech unveiled their first car, the GT1. The sleek green design caught the attention of car enthusiasts and environmentalists alike, and the car quickly gained a following.

One of the most impressive things about the GT1 was its innovative engine. The car ran on a hybrid system that used both electricity and gasoline, resulting in significantly lower emissions and better fuel efficiency. The car's advanced energy management system



GreenTech's commitment to the environment extended beyond their cars. They used eco-friendly materials in their manufacturing process and worked to reduce waste and emissions at their factories.

As the years went on, GreenTech continued to thrive. They became one of the most respected car makers in the world, and their cars could be found on roads in every corner of the globe. They remained true to their founding principles, always striving to create cars that were both stylish and environmentally friendly.

In the end, GreenTech's legacy wasn't just the cars they made, but the example they set for the automotive industry. They showed that it was possible to create cars that were both fun to drive and good for the planet, and in doing so, they helped to create a

- Since the image is not in the center vertically, put **before** pseudo-element to have a gap between the image and the starting point

- <CSS>

```
/* these two before section gives
.left-section::before {
  float: right;
  width: 0px;
  height: 90px;
  content: " "
}

.right-section::before {
  float: left;
  width: 0px;
  height: 90px;
  content: " "
}
```

to revolutionize the automotive industry by creating cars that were both environmentally friendly and stylish. They were tired of the old gas-guzzling vehicles that dominated the market and believed that there was a better way to power cars.

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One of the most impressive things about the GT1 was its innovative engine. The car ran on a hybrid system that used both electricity and gasoline, resulting in significantly lower emissions and better fuel efficiency. The car's advanced energy management system allowed drivers to monitor their energy usage and reduce waste.

The success of the GT1 propelled GreenTech into the spotlight, and the company quickly became known for its commitment to sustainability and innovation. They continued to develop new models, each one more innovative than the last.



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- The text is not exactly circled around due to the word length, so put the **justify** attribute to align to the end of the line. (also added the padding to look better)

- <CSS>

```
.left-section,
.right-section {
  padding: 10px;
  text-align: justify;
}
```

wanted to revolutionize the automotive industry by creating cars that were both environmentally friendly and stylish. They were tired of the old gas-guzzling vehicles that dominated the market and believed that there was a better way to power cars.

After years of research and development, GreenTech unveiled their first car, the GT1. The sleek green design caught the attention of car enthusiasts and environmentalists alike, and the car quickly gained a following.

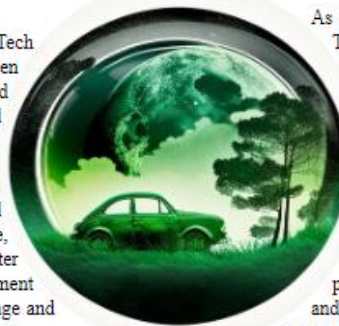
One of the most impressive things about the GT1 was its innovative engine. The car ran on a hybrid system that used both electricity and gasoline, resulting in significantly lower emissions and better fuel efficiency. The car's advanced energy management system allowed drivers to monitor their energy usage and reduce waste.

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The watermark and the image in the center

Required Effect:

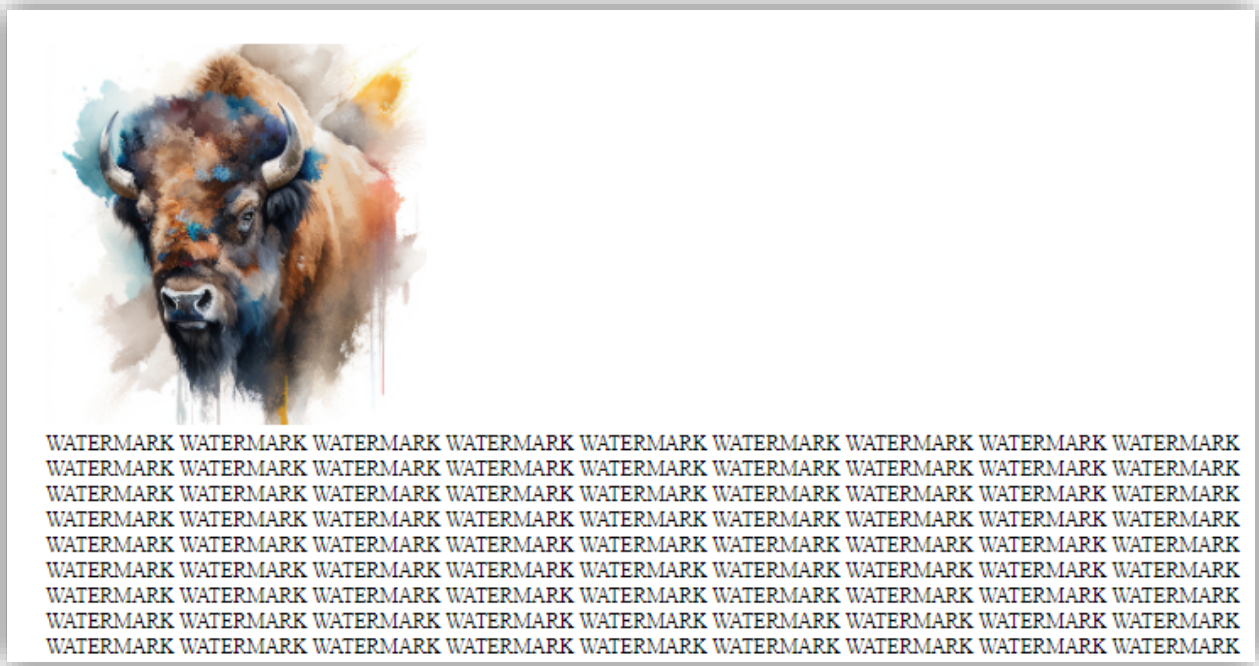
- Put an image centered
- Put a watermark behind

Implementation:

- Put the image, and watermark into the HTML page.
- The watermark could be there as an image repeated, but just using the text paragraph was an easier way to do it.

```
<div id="water-container">
  <!-- the center image of watermark div part -->
  

  <!-- there would be a better way to make the water mark contents, but
  <div id="watermark">WATERMARK WATERMARK WATERMARK WATERMARK WATERMARK
    WATERMARK WATERMARK WATERMARK WATERMARK WATERMARK WATERMARK WATERMARK
    WATERMARK
    WATERMARK WATERMARK WATERMARK WATERMARK WATERMARK WATERMARK WATERMARK
    WATERMARK
    WATERMARK WATERMARK WATERMARK WATERMARK WATERMARK WATERMARK WATERMARK
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    WATERMARK WATERMARK WATERMARK WATERMARK WATERMARK WATERMARK WATERMARK
    WATERMARK
    WATERMARK WATERMARK WATERMARK WATERMARK WATERMARK WATERMARK WATERMARK
    WATERMARK
    WATERMARK WATERMARK WATERMARK WATERMARK WATERMARK WATERMARK WATERMARK
    WATERMARK
  </div>
</div>
```



- Make the watermark big, gray-colored, and rotated.

- Since it was off-center after the rotation, the translate value has been added as well.
- <CSS>

```

5 #watermark {
5   line-height: 50px;
4   width: 1500px;
3   transform: translate(-200px, -400px) rotate(-35deg);
2   font-size: 3em;
1   font-weight: bold;
   color: rgba(0, 0, 0, 0.1);
1 }

```

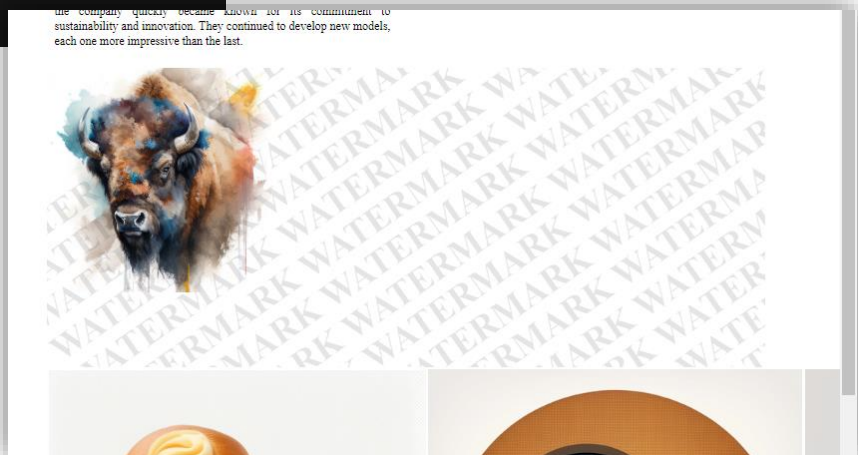


- The watermark is out of the boundary, so **overflow: hidden** is required not to show them out of the div
- <CSS>

```

7 1 could put the watermark only in the
#water-container{
  width: 960px;
  height: 400px;
  overflow: hidden;
}

```



- The image is not in the center, to put it in the center, set the **position** property and the **absolute** value.
- <CSS>

```
#absolute-img {  
  position: absolute;  
  margin-top: 50px;  
  margin-right: auto;  
  margin-left: 300px;  
}
```

sustainability and innovation. They continued to develop new models, each one more impressive than the last.



The six images in a table element

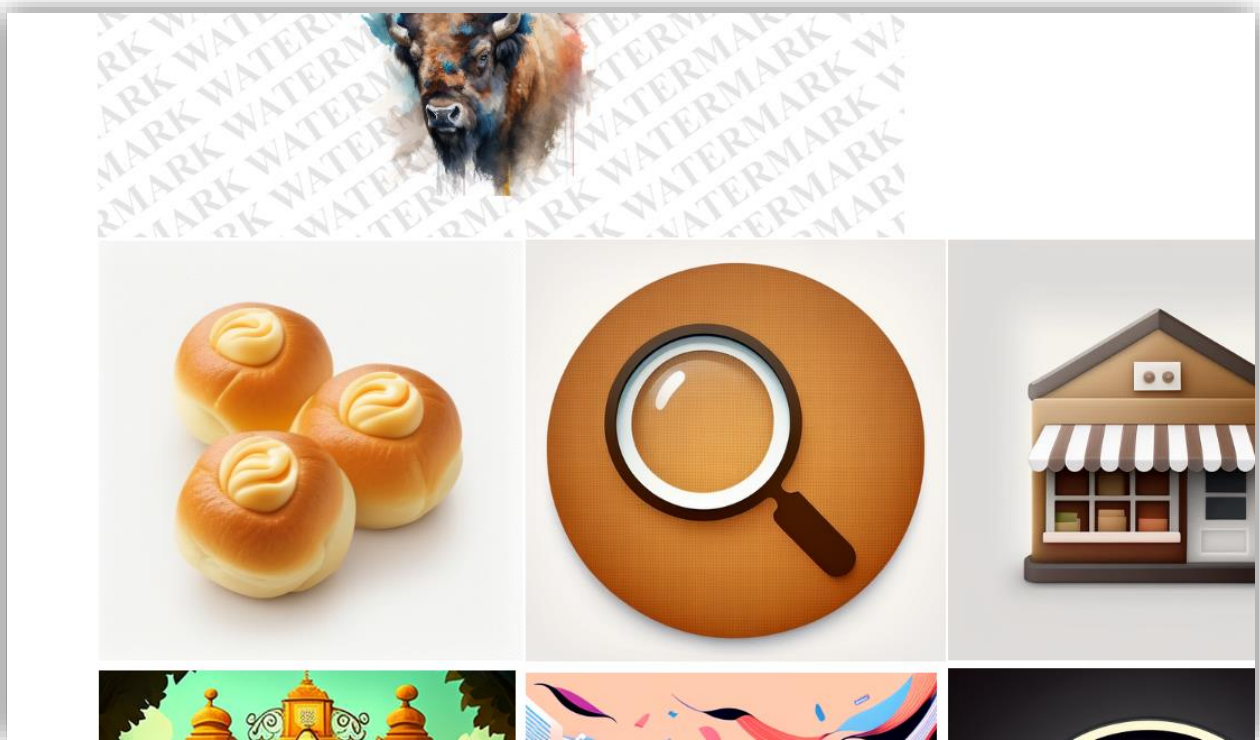
Required Effect:

- Put 6 images arranged as a 3*2 table

Implementation:

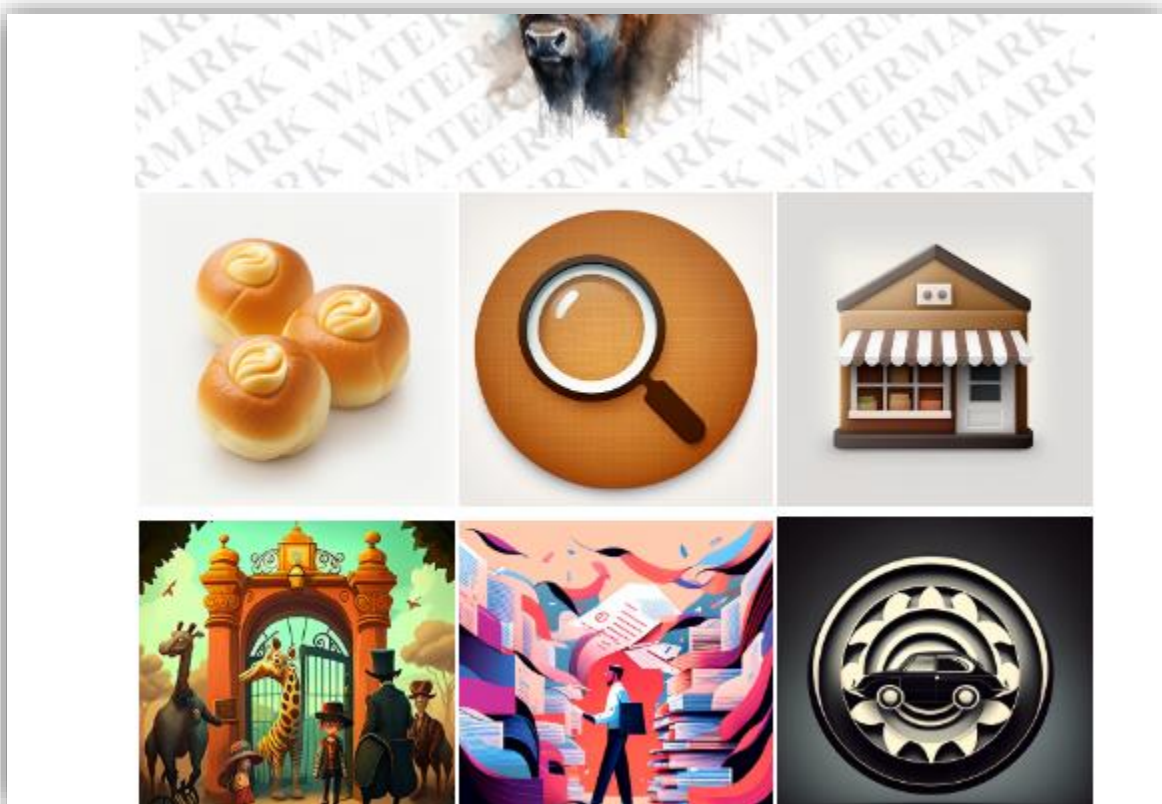
- Using a table element, have a frame, and located all those images as an item.

```
<table>
  <tr>
    <td></td>
    <td></td>
    <td></td>
  </tr>
  <tr>
    <td></td>
    <td></td>
    <td></td>
  </tr>
</table>
```



- The images are shown up, but with the original sizes, so add width as % variable for setting them to the body size altogether.
- <CSS>

```
1 .table-img {  
2   width: 100%;  
3 }  
4
```



Conclusion

Over the course of this assignment, I was able to see how HTML and CSS work. It was nice to see the results of my hard work, once the assignment was completed. The W3C school examples were the helpful references while working through this assignment. It also was helpful to try examples using CSS references through Mozilla Developer Network(MDN), and CSS properties and values, through the W3C school, to gain a more thorough understanding of CSS.

CSS can define styles of the HTML page such as the ids, classes, and tag names in HTML elements. To adjust the location of the elements, it is essential to understand element structure; this includes content, padding, border, and margin. The advantage of this assignment was that it offered me a chance to develop a clearer picture of each of these relationships using practical experience. Although there are several ways to implement a webpage that is similar in design, this project was much more complex.

I learned the importance of defining a clear name, and creating a structure that is as simple as possible. It is particularly important to use the correct ids or classes to link an item to CSS. Perhaps, I did not use the most appropriate tools during this assignment. Through all the ups and downs, I learned how to implement the necessary steps to design a simple webpage. I did my best to complete this challenging assignment.

References

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