

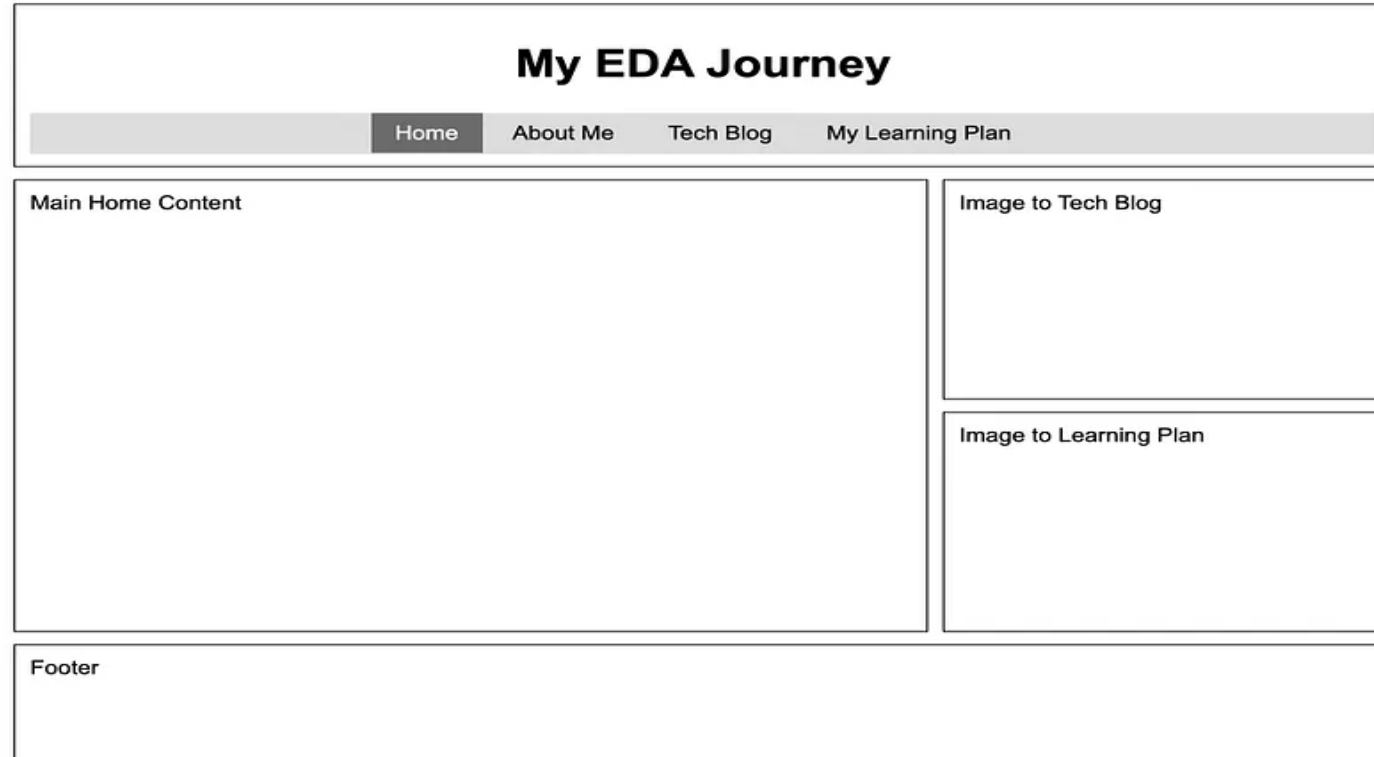
CSS: Margin, Border and Padding

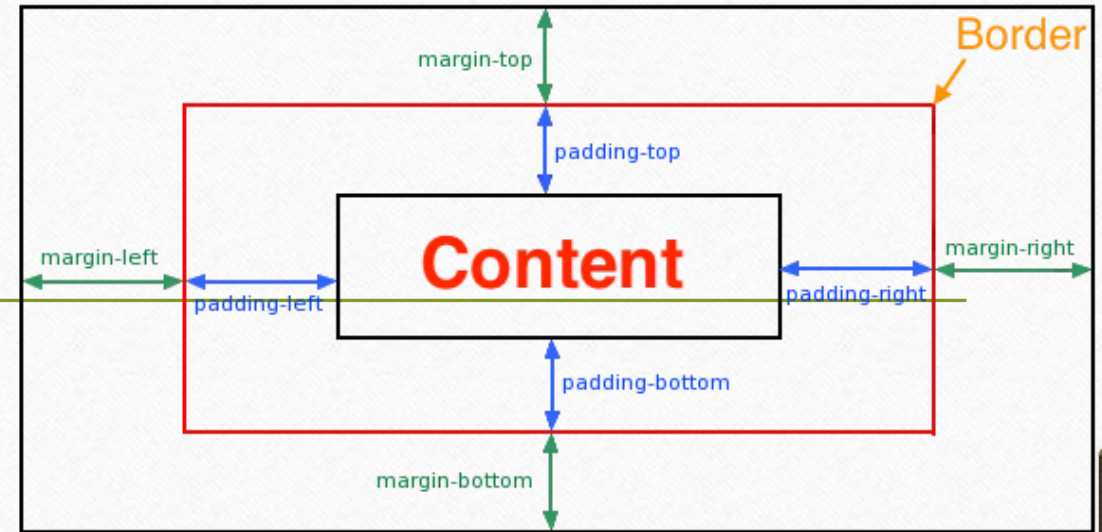
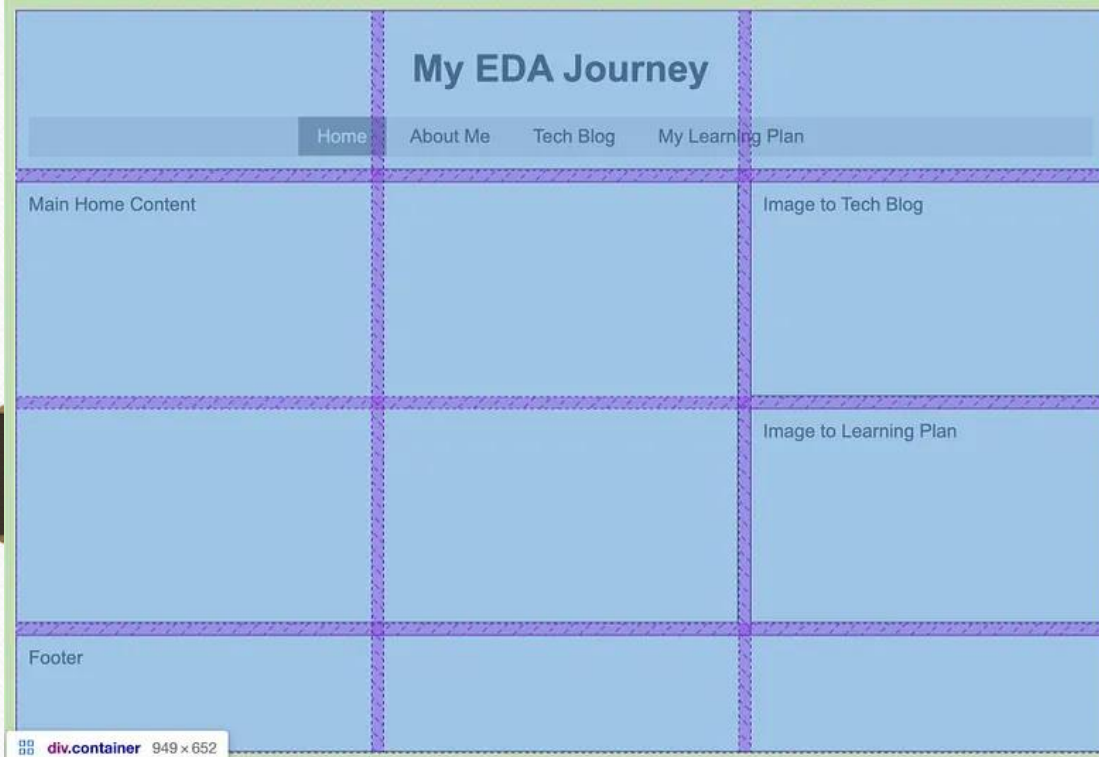
DEVTECH

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CSS Margins, Borders and Padding





- Gaps in-between each container (Margins)
- Space around the contents (Padding)
- Space around the edges of the containers (Borders)

What is Margin?

- They are used to create space around elements outside of any defined borders.
- We can set margins of a container by using the margin attributes that are available (can be both px and %).
- The key properties for specifying the margin for each side of an element are:
 - Margin-top
 - Margin-Right
 - Margin-Bottom
 - Margin- Left

```
p {  
  margin-top: 10px;  
  margin-bottom: 20px;  
  margin-right: 10%;  
  margin-left: 10%;  
}
```


What is Padding?

- Padding is used to create space around an element's content, inside of any defined borders.
- In this case, we have set the padding for the top and bottom to 10px and the left and right to 0px.

↑ Padding-Top 10px
Content Area
↓ Padding-Bottom 10px

Padding is used to create space around an element's content, inside of any defined borders. If I were to take this paragraph for example, the content (ie: this text that I am writing) is located inside a container. The space from the outside of this text to the inside edge of this container's border is the space that the Padding attribute controls. There you go, simple right? Lets take a look here:

- padding-top
- padding-right
- padding-bottom
- padding-left

```
div {  
  padding-top: 10px;  
  padding-right: 0px;  
  padding-bottom: 10px;  
  padding-left: 0px;  
}
```

What about Borders?

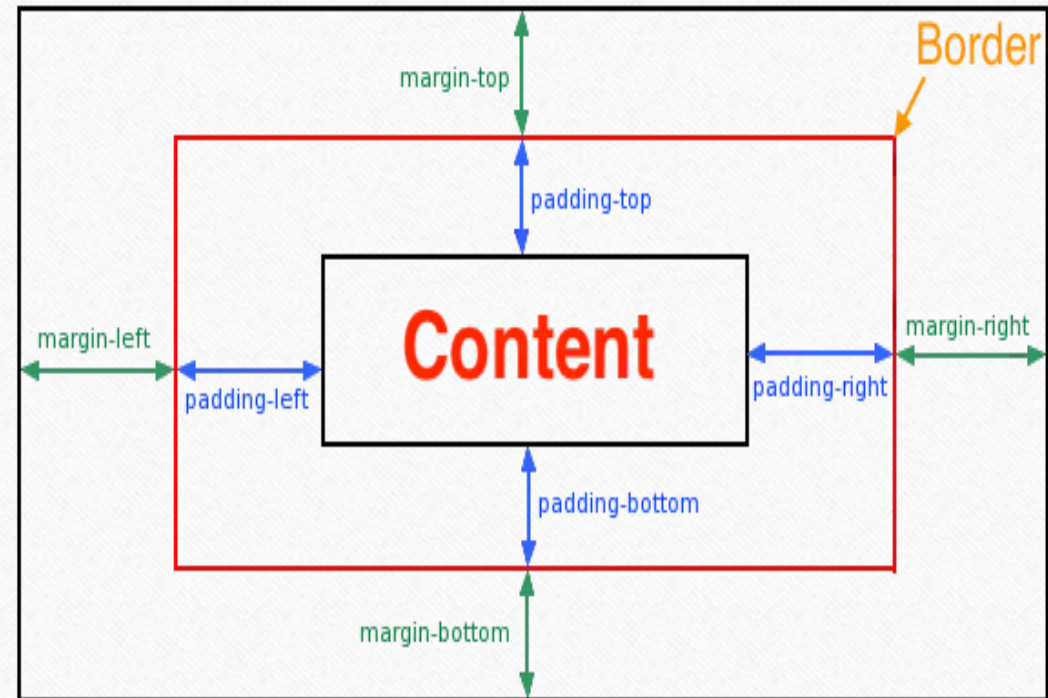
- Primarily on the border-width attribute. This sets the size or thickness of the border and therefore the final area of space that is between the container's Margin and Padding settings.

- border-width
- border-color
- border-style
- border-radius

```
#border-test {  
  border-width: 5px;  
  border-color: red;  
  border-style: dotted;  
}
```


Conclusion

- **Margin** is the area highlighted in green above defines the space around the outside of a container and its Border.
- The **border-width**, this highlighted in red defines the space between the Margin and Padding settings.
- **Padding area** is the space that is defined between the Content and the containers Border.



Exercise:

```
<!DOCTYPE html>
<html>

<head>
  <title>Margin, Border and Padding</title>
  <style>
    .box {
      background-color: #e67e22;
      margin-top: 80px;
      margin-left: 5rem;
      width: 20rem;
      color: #2980b9;
      text-align: center;
      font-size: 50px;
      border: 7px solid #000080;
      padding: 15rem;
    }

    body {
      background-color: #2e8b57;
    }
  </style>
</head>

<body>
  <div class="box">
    Welcome Page: CSS Margin, Boarder and Padding!
  </div>
</body>

</html>
```



Welcome Page:
CSS Margin,
Boarder and
Padding!


```

<!DOCTYPE html>
<html>
  <head>
    <title>Padding</title>
    <style>
      .main {
        font-size: 38px;
        font-weight: bold;
        Text-align: center;
      }

      .box {
        margin-left: 500px;
        border: 50px solid #059900;
        width: 300px;
        height: 200px;
        text-align: center;
        padding: 50px;
        margin-top: 180px;
        color: blue;
        font-size: 10px;
        font-weight: bolder;
      }

      .box1 {
        font-size: 42px;
        font-weight: bold;
        color: #ee1111;
        margin-top: 60px;
      }
    </style>
  </head>

  <body>
    <div class="main">CSS Margin Property</div>
    <div class="box">
      <div class="box1">DEVTECH CLASS </div>
    </div>
  </body>

```

</html>

CSS Margin Property

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Seatwork#2 CSS- Create a sample output with this one (part 1)

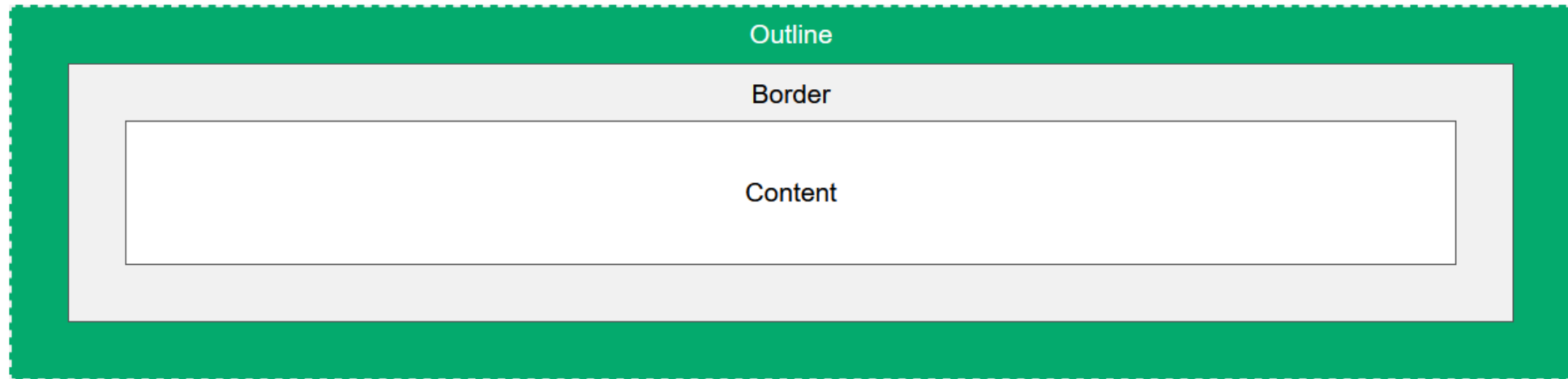
CSS Page for Seatwork

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**BOX 2
Sample**

CSS Outline and CSS Overflow

- An outline is a line that is drawn around elements, OUTSIDE the borders, to make the element "stand out".



CSS Outline Properties

- `outline-style`
- `outline-color`
- `outline-width`
- `outline-offset`
- `outline`

CSS Outline Style

The `outline-style` property specifies the style of the outline, and can have one of the following values:

- `dotted` - Defines a dotted outline
- `dashed` - Defines a dashed outline
- `solid` - Defines a solid outline
- `double` - Defines a double outline
- `groove` - Defines a 3D grooved outline
- `ridge` - Defines a 3D ridged outline
- `inset` - Defines a 3D inset outline
- `outset` - Defines a 3D outset outline
- `none` - Defines no outline
- `hidden` - Defines a hidden outline

CSS Outline Samples:

```
p.dotted {outline-style: dotted;}  
p.dashed {outline-style: dashed;}  
p.solid {outline-style: solid;}  
p.double {outline-style: double;}  
p.groove {outline-style: groove;}  
p.ridge {outline-style: ridge;}  
p.inset {outline-style: inset;}  
p.outset {outline-style: outset;}
```

A dotted outline.

A dashed outline.

A solid outline.

A double outline.

A groove outline. The effect depends on the outline-color value.

A ridge outline. The effect depends on the outline-color value.

An inset outline. The effect depends on the outline-color value.

An outset outline. The effect depends on the outline-color value.

Overflow Sample

```
<!DOCTYPE html>
<html>
<head>
<style>
div {
  background-color: coral;
  width: 200px;
  height: 300 px;
  border: 10px solid;
  overflow: visible;
}
</style>
</head>
<body>

<h2>Overflow: visible</h2>

<p>Overflow trial</p>

<div> What is inside? </div>
</body>
</html>
```

Overflow: visible

Overflow trial

What is inside?

Outline Sample

`outline-style: solid;`

`outline-style: dotted;`

`outline-style: dashed;`

`outline-style: none;`

`outline-style: hidden;`

```

/ CSS Margin / > Outline2.html / > name
<!DOCTYPE html>
<html lang="en">

  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <link rel="stylesheet" href="p.css" />
    <title>CSS outline-style</title>
  </head>

  <body>
    <p class="solid">outline-style: solid;</p>
    <p class="dotted">outline-style: dotted;</p>
    <p class="dashed">outline-style: dashed;</p>
    <p class="none">outline-style: none;</p>
    <p class="hidden">outline-style: hidden;</p>
  </body>

</html>

```

```

/* creates a solid outline */
p.solid {
  outline-style: solid;
}

/* creates a dotted outline */
p.dotted {
  outline-style: dotted;
}

/* creates a dashed outline */
p.dashed {
  outline-style: dashed;
}

/* no outline is created */
p.none {
  outline-style: none;
}

/* hides the outline */
p.hidden {
  outline-style: hidden;
}

/* adds 8px padding to all p */
p {
  padding: 8px;
}

```


Outline Sample #2

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

  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <link rel="stylesheet" href="style.css" />
    <title>CSS outline-color</title>
  </head>

  <body>
    <p class="first">outline-color: blue;</p>
    <p class="second">outline-color: orange;</p>
  </body>

</html>
```

outline-color: blue;

outline-color: orange;

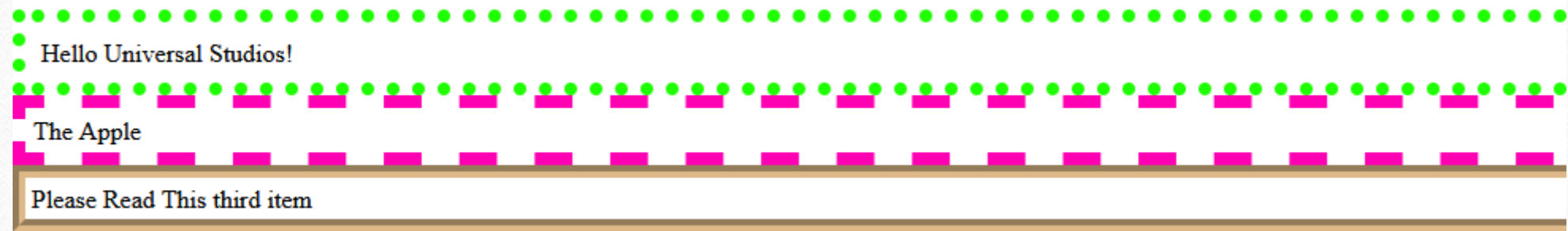
```
p {
  outline-style: solid;
  outline-width: 8px;
  padding: 8px;
}
```

```
p.first {
  outline-color: blue;
}
```

```
p.second {
  outline-color: orange;
}
```

Seatwork#2 CSS (part 2)

- Requirements: Padding is 5 px for second paragraph, padding is 10 px in first paragraph and padding is 4 px in third paragraph.



References

- <https://medium.com/@lewis.taiapa/tech-blog-css-margins-borders-and-padding-1df9fa117bb9>
- <https://www.programiz.com/css/outline>