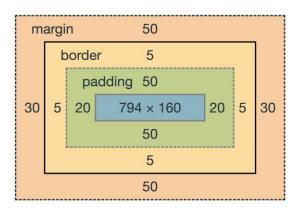
CSS Box Model



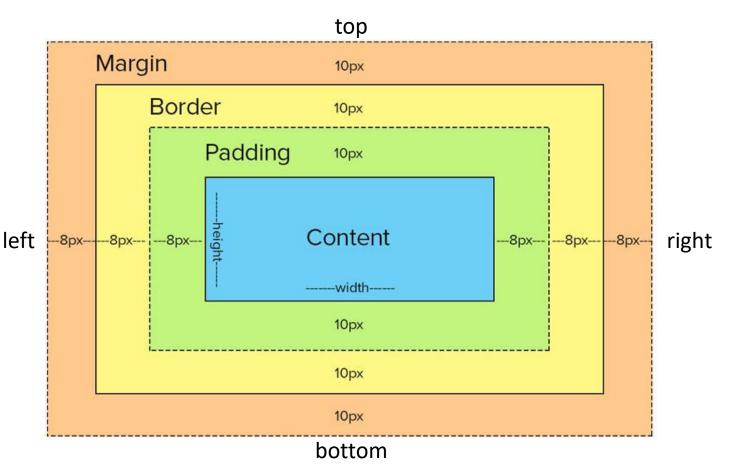
All HTML elements can be considered as boxes.

In CSS, the term "box model" is used when talking about design and layout.

The CSS box model is essentially a box that wraps around every HTML element.

It consists of:

- margins
- borders
- padding, and
- the actual content.



- •Content The content of the box, where text and images appear
- •Padding Clears an area around the content. The padding is transparent
- •Border A border that goes around the padding and content
- •Margin Clears an area outside the border. The margin is transparent

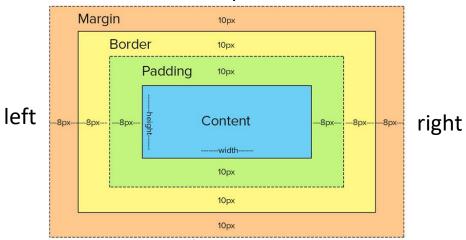
Parts of a box:

< example1/>

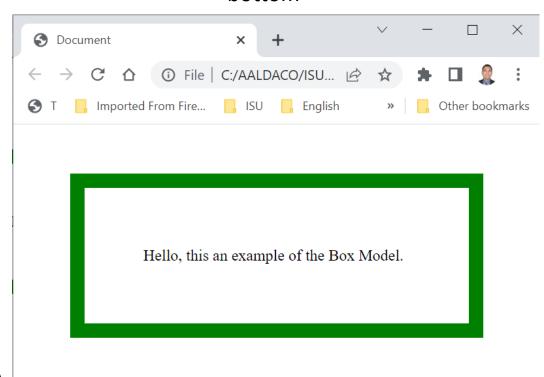
Create a div HTML element

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible"</pre>
content="IE=edge">
    <meta name="viewport" content="width=device-</pre>
width, initial-scale=1.0">
    <style>
        div {
            margin: 50px;
            border: 12px solid green;
            padding: 60px;
    </style>
    <title>Document</title>
</head>
<body>
    <div>
        Hello, this an example of the Box Model.
    </div>
</body>
</html>
```

top



bottom

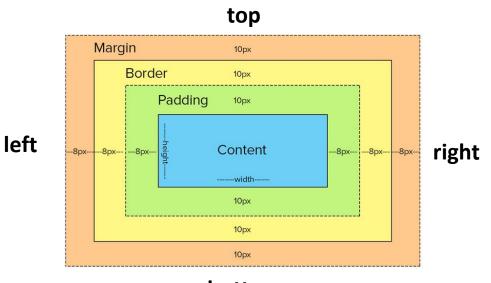


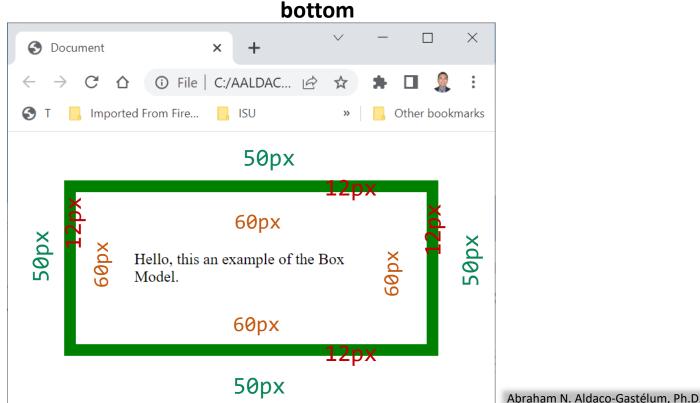
If it is not specified left, top, right and/or bottom, like this:

```
margin: 50px;
```

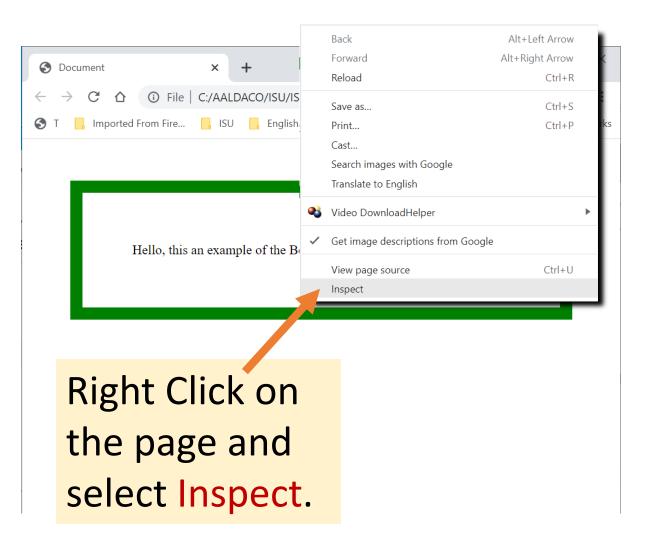
Therefore, the margin is applied to the four extremes.

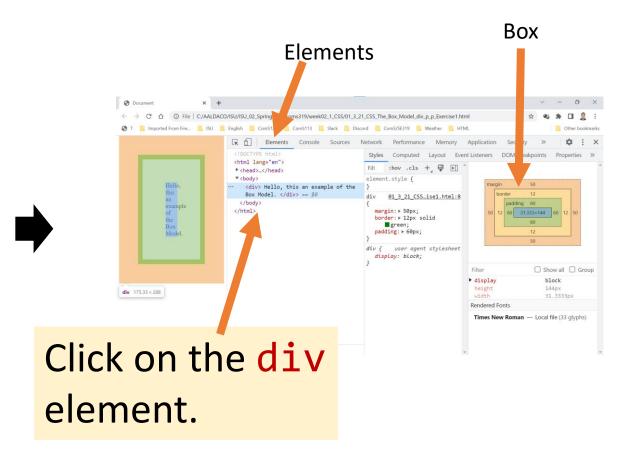
```
<style>
    div {
        margin: 50px;
        border: 12px solid green;
        padding: 60px;
        }
</style>
```





Inspect the page in your Browser:





Let's to modify the Box by the left side

```
margin-left: Opx;
border-left: 2px solid blue;
padding-left: Opx;
```

Let's to modify margin value by the left side :

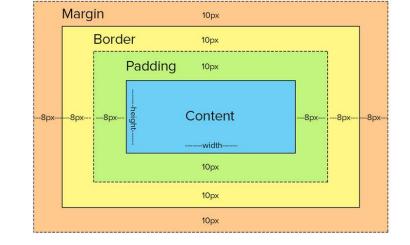
```
margin
                       border
                           padding
                                  31.333×144
                                                  60 | 12
                                       50
     Ocument
                   ① File C:/AALDACO/ISU/IS... 🖄 ☆
         Imported From Fire... ISU ___ English
                                                Other bookmarks
                           50px
                                                             Орх
Орх
           Hello, this an example of the Box Model.
                            50px
```

margin: 50px;
border: 12px solid green;
padding: 60px;
margin-left: 0px;

Modify

your code

Let's to modify border value by the left side :



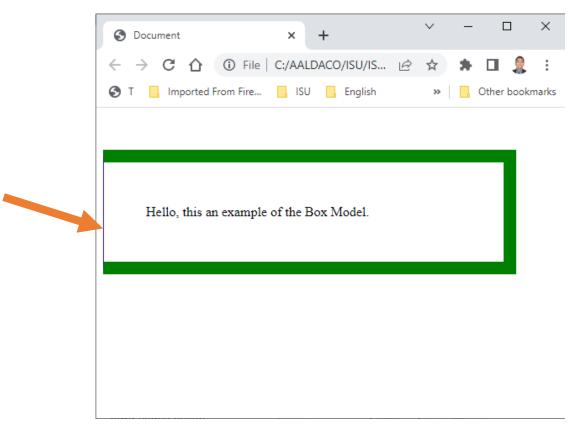
```
margin: 50px;
```

border: 12px solid green;

padding: 60px;

margin-left: Opx;

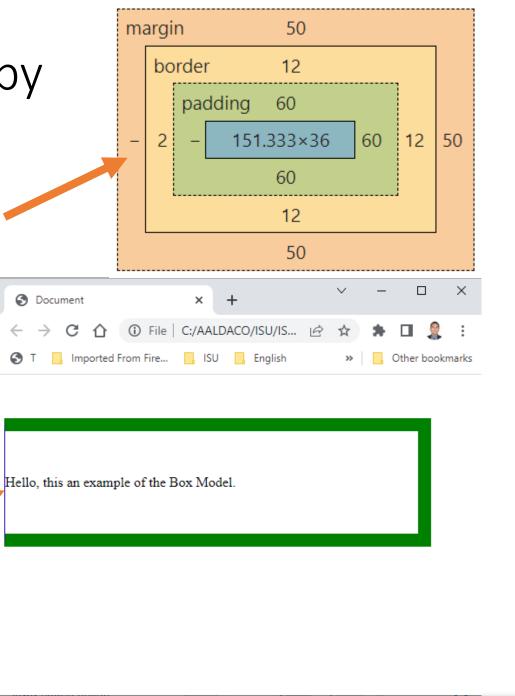
border-left: 2px solid blue;



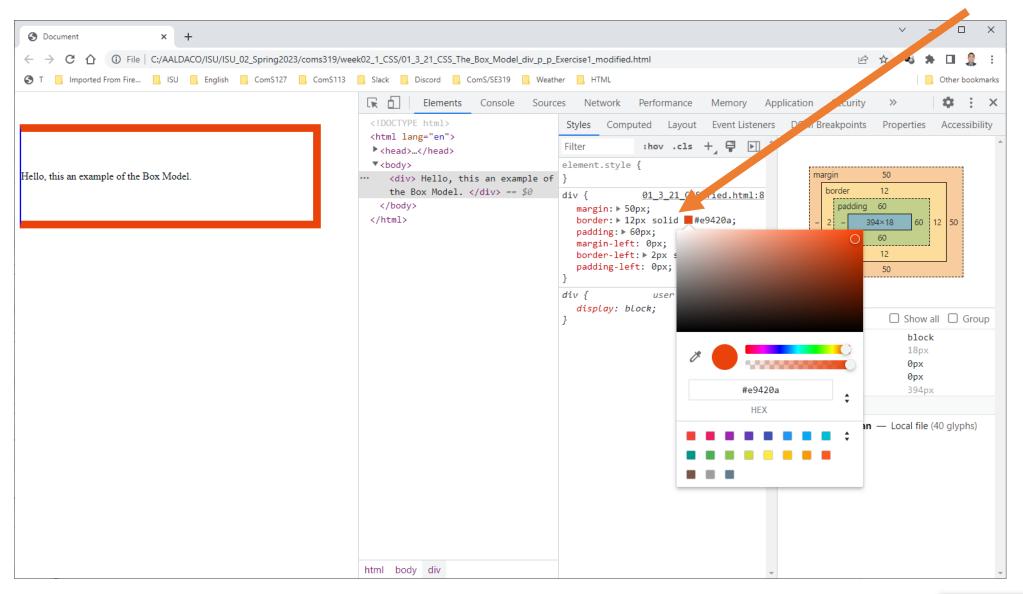
Let's to modify **padding** value by the left side :

```
margin: 50px;
border: 12px solid green;
padding: 60px;
margin-left: Opx;
border-left: 2px solid blue;
padding-left: 0px;
                 Don't forget
                 Click <div>
```

element



Experiment with values while viewing INSPECT:

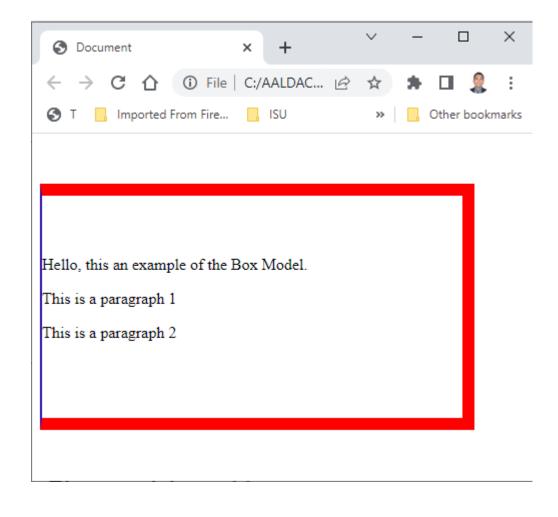


< exercise/>

Create a <div> </div> HTML element which includes two elements:

and DO NOT assign any attribute of margin, border or padding to any $\langle p \rangle \langle /p \rangle$:

You will observe a CASCADING effect on of the attributes from its parent, the <div> element.



Observe that the properties of the <div> are cascaded to :

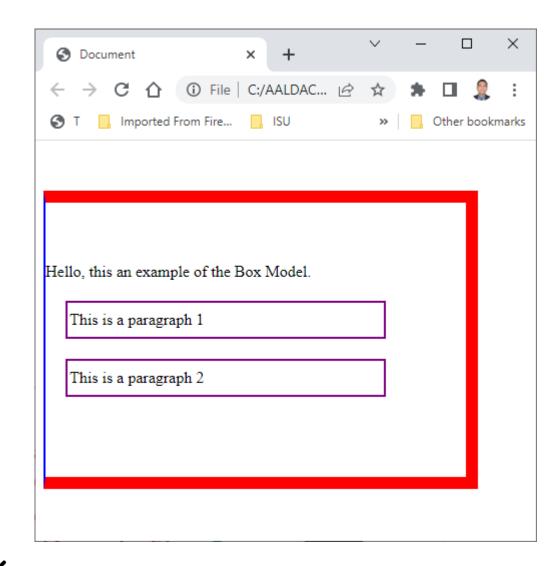
```
div {
    margin: 50px;
    border: 12px solid rgb(255, 0, 0);
    padding: 60px;
    margin-left: 0px;
    border-left: 2px solid rgb(0, 0, 255);
    padding-left: 0px;
}
```

That happens because is a sub-Element in <div> . Or is a child of <div>.

Now, let's give properties to .

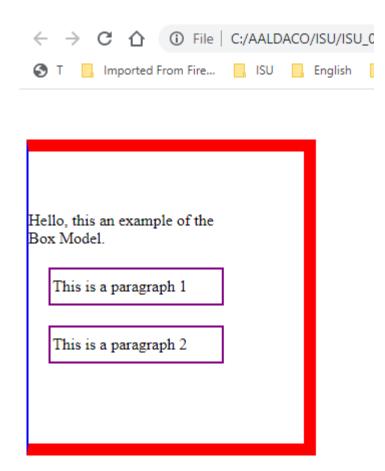
```
p {
    margin: 20px;
    border: 2px solid purple;
    padding: 8px;
    padding-left: 2px;
}
```

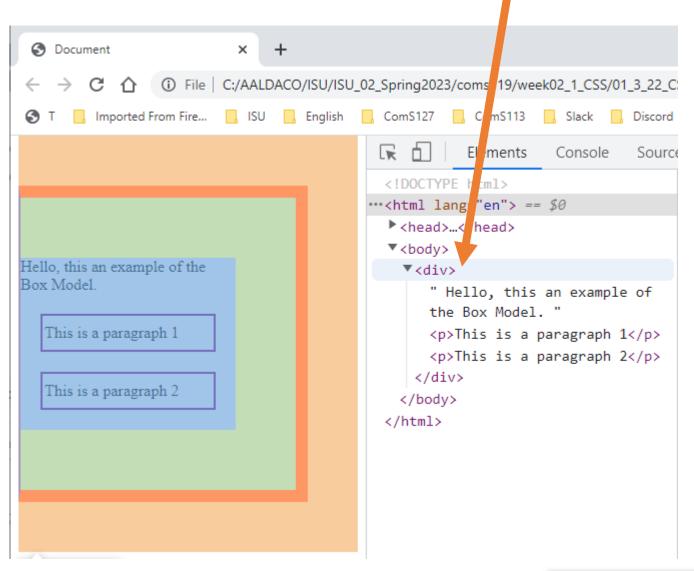
```
<style>
       div {
           margin: 50px;
           border: 12px solid rgb(255, 0, 0);
           padding: 60px;
           margin-left: 0px;
           border-left: 2px solid rgb(0, 0, 255);
           padding-left: 0px;
       p {
           margin: 20px;
           border: 2px solid purple;
           padding:8px;
           padding-left:2px;
   </style>
   <title>Document</title>
</head>
<body>
   <div>
       Hello, this an example of the Box Model.
       This is a paragraph 1
       This is a paragraph 2
   </div>
</body>
```



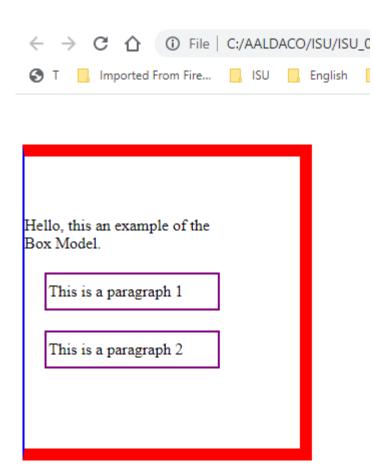
Inspect the Web page:

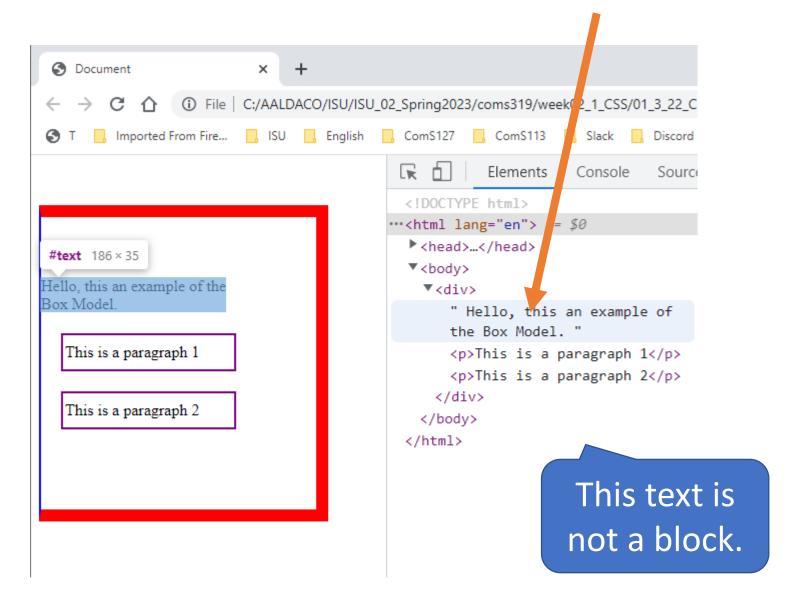
Click <div>

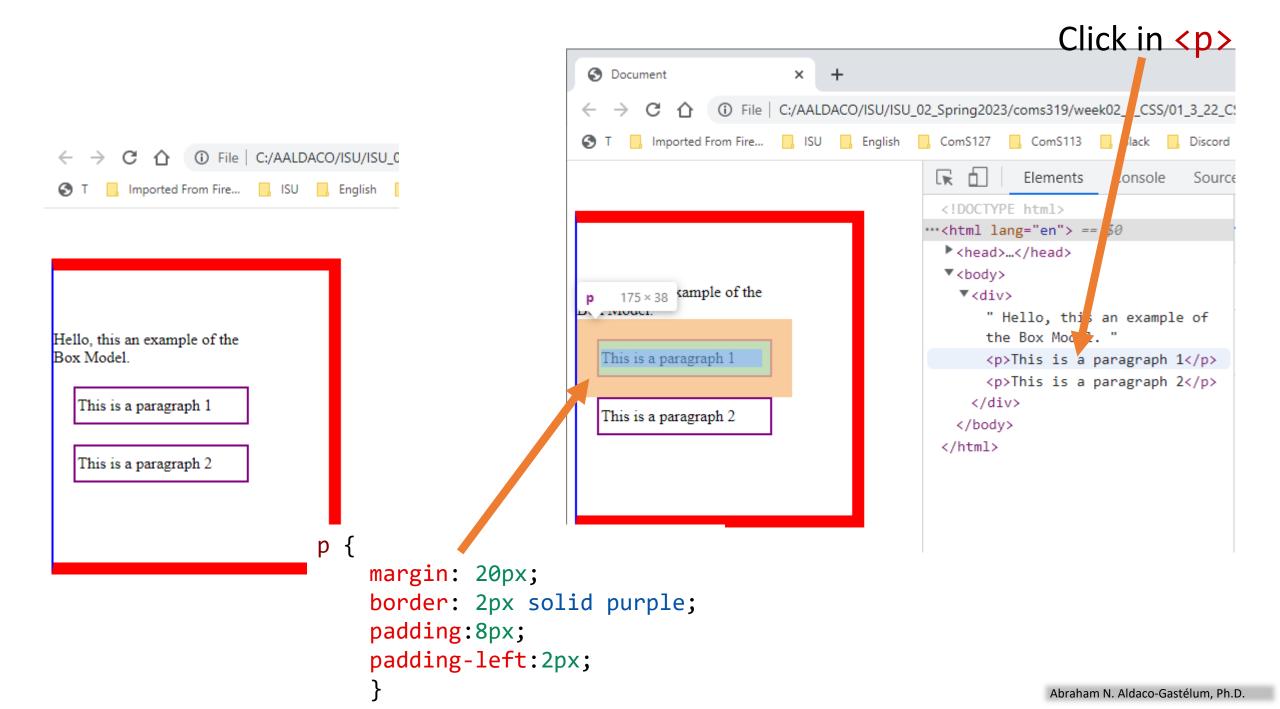




Click the text in <div>







Check this if there is algo interesting:

https://www.digitalocean.com/community/tutorials/how-to-adjust-the-content-padding-border-and-margins-of-an-html-element-with-css