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INTRODUCTION TO CSS



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POSITIONS



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POSITION

- Positions allow us to change the position of something on a page. Some of the most common ways positions are used are for fixed nav bars, after effects, and footers



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POSITION

- The way you write this is:
 - Position: _____; Static // *Default, Relative, Fixed*
Absolute
 - Then you determine which side you want to move
 - Bottom: 20px;
 - Top: 20px;
 - Left: 20px;
 - Right: 20px;



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POSITION STATIC



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POSITION STATIC

- Position static is the default position. Here are some 3 divs nested in a container with padding and margins.



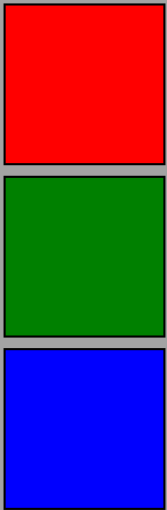


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POSITION STATIC

- Default's for anything can be used when you are changing elements in JavaScript, or when you are making elements responsive





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POSITION RELATIVE

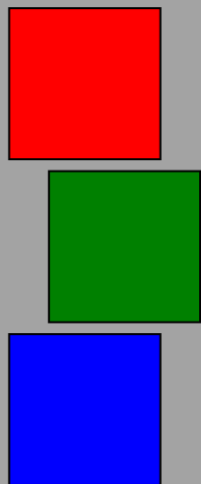


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POSITION RELATIVE

- Position relative will move to a position that is *relative* to it's original position based on its parent



```
.green {  
  background-color: ■ green;  
  position: relative;  
  left: 40px;  
}
```

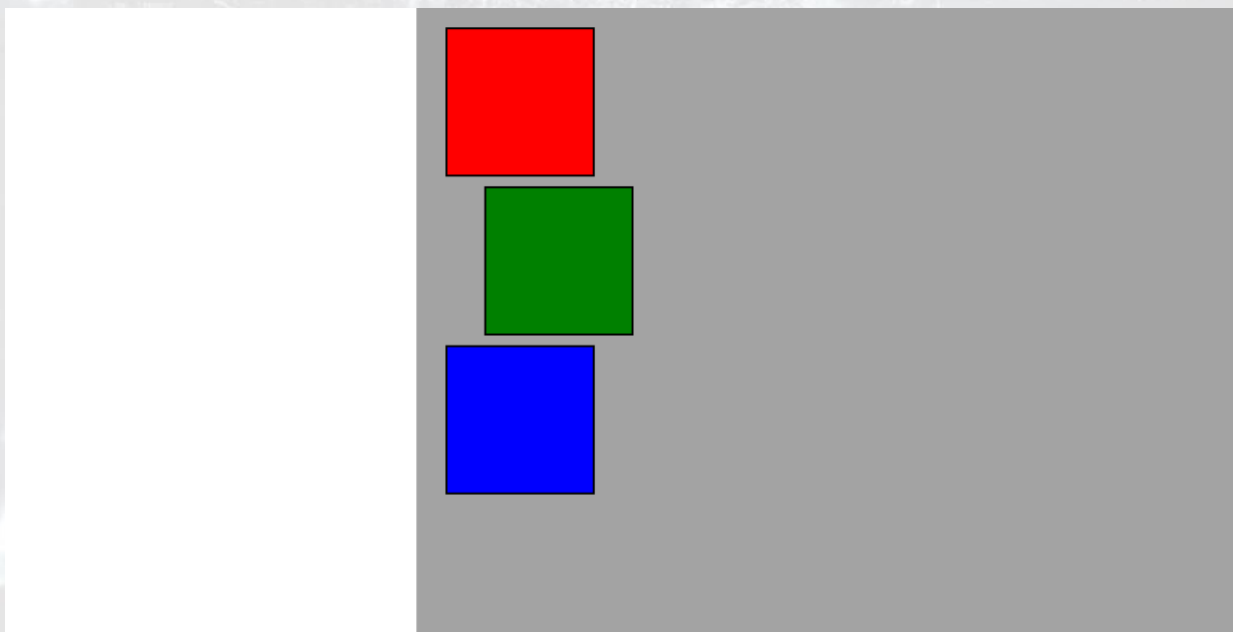


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POSITION RELATIVE

- This container has been moved to the center of the page, and the green box is still 40px left of the parent



```
.green {  
  background-color: green;  
  position: relative;  
  left: 40px;  
}
```

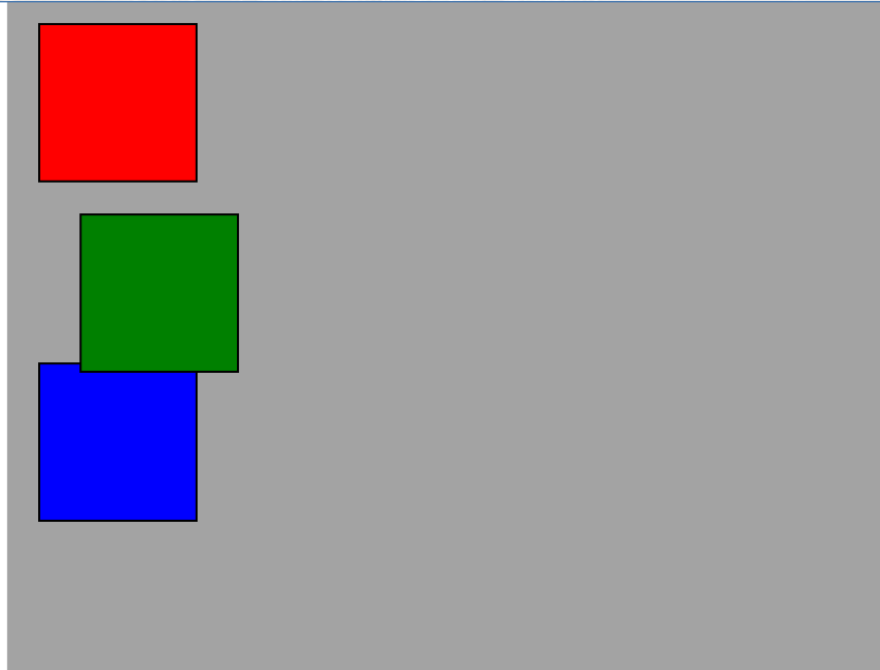


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POSITION RELATIVE

- Relative can overlap other elements



```
.green {  
  background-color: green;  
  position: relative;  
  left: 40px;  
  top: 20px;  
}
```



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POSITION RELATIVE

- Position Relative is good for moving items in a container.

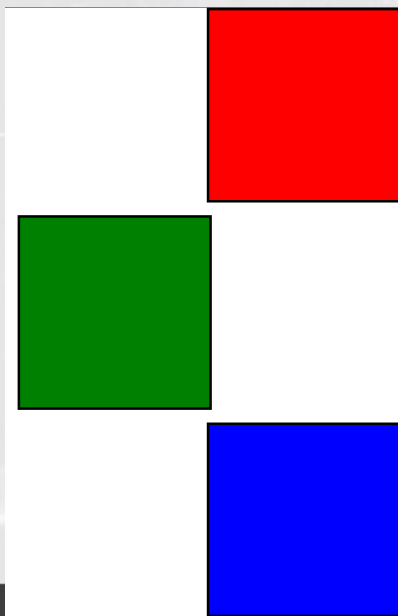


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POSITION RELATIVE

- Exercise:
 - Move your elements like the photo below only using position relative (No margins allowed):





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POSITION ABSOLUTE

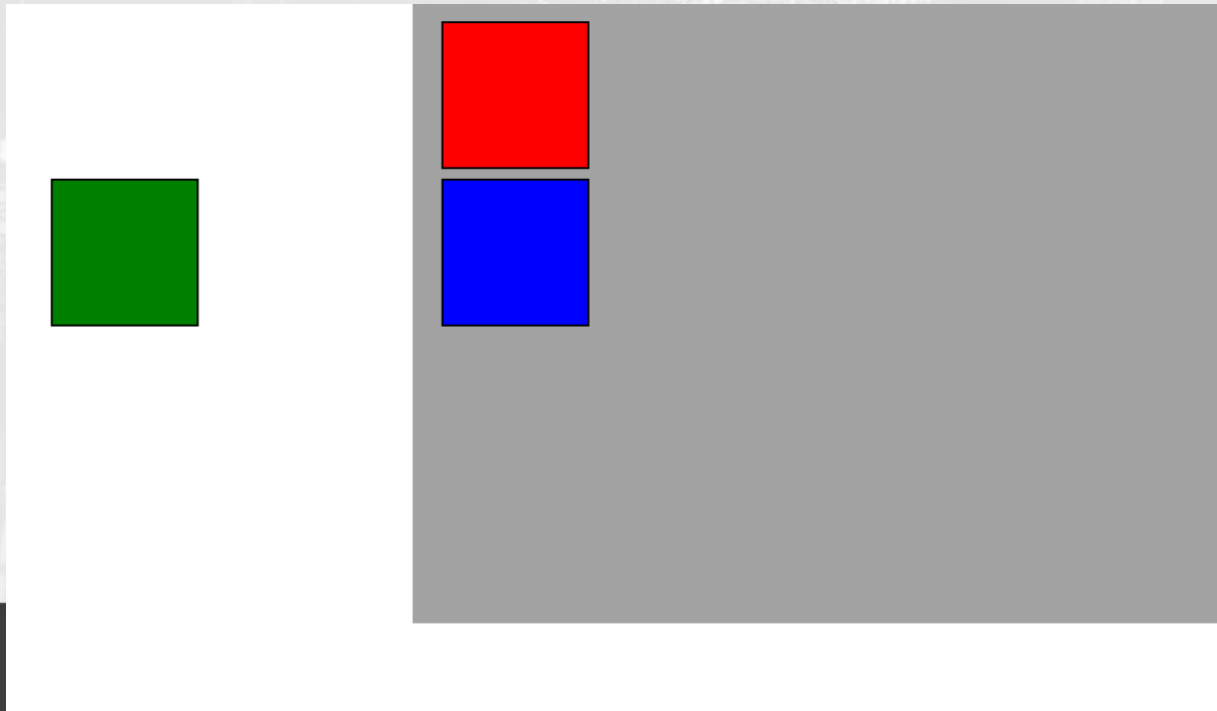


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POSITION ABSOLUTE

- Position absolute will move to a position that based on page. It will ignore its parents location and move to the *absolute* location of the page



```
.green {  
  background-color: green;  
  position: absolute;  
  left: 40px;  
}
```

```
<div class="container">  
  <div class="red box"></div>  
  <div class="green box"></div>  
  <div class="blue box"></div>  
</div>
```

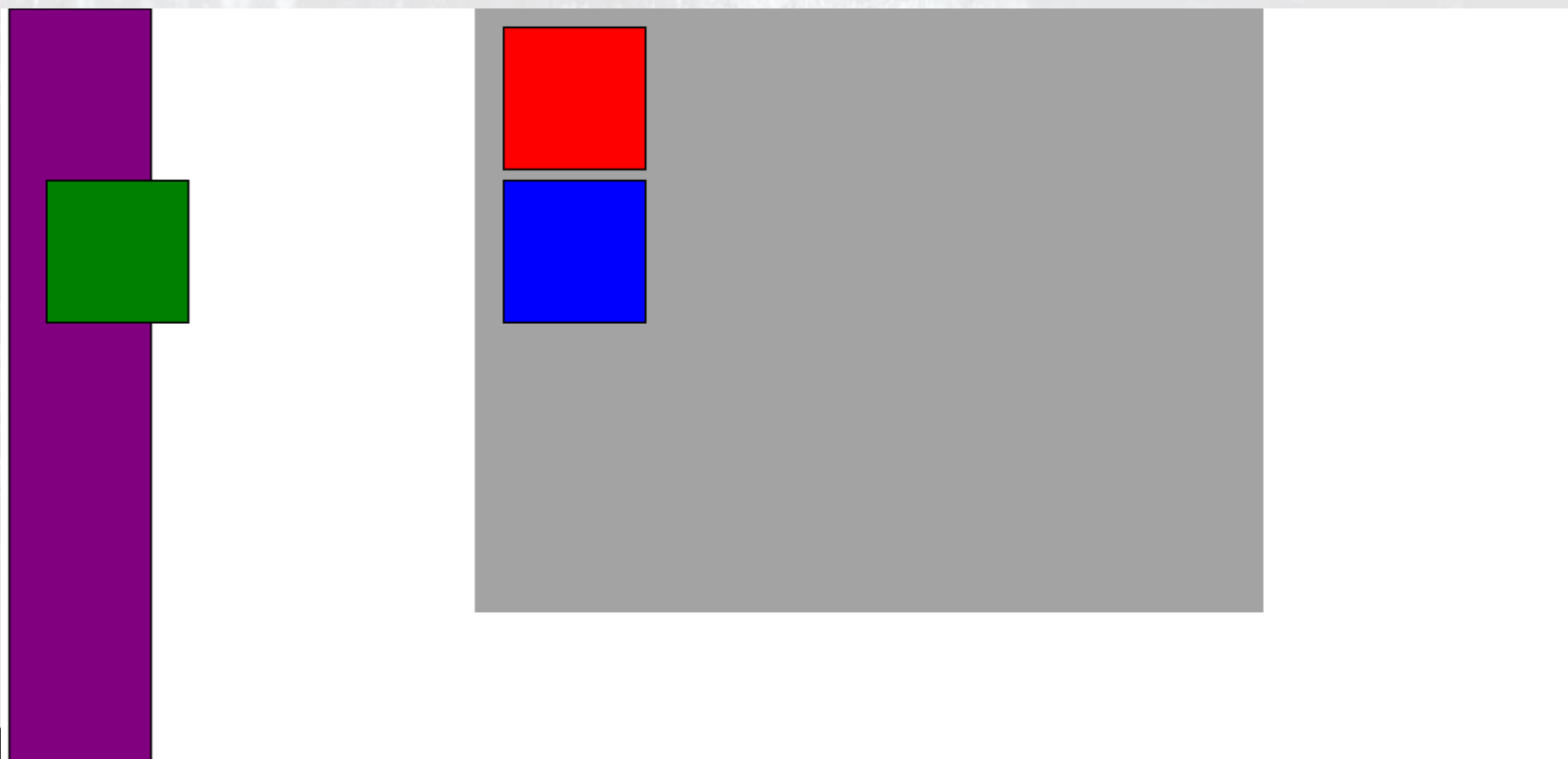


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POSITION ABSOLUTE

- Position absolute will cover elements on the page.



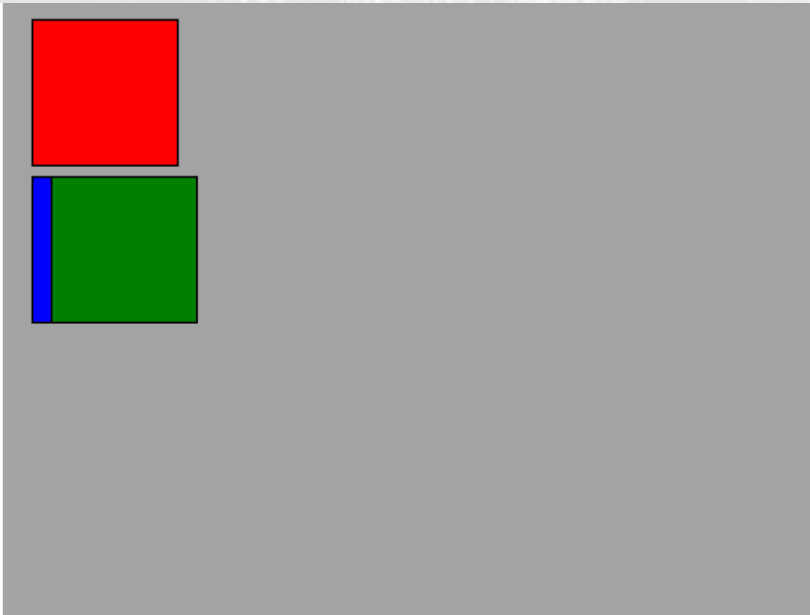


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POSITION ABSOLUTE

- Add position relative to the container and the child element with position absolute will move into the container. Green is now covering blue



```
.container {  
  width: calc(50% - 40px);  
  height: calc(80vh - 40px);  
  background-color: rgb(163, 163, 163);  
  padding: 20px;  
  position: relative;  
  margin: auto;  
}
```



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POSITION ABSOLUTE

- Position Absolute is good:
 - Modals. You might think of these as “Pop ups”
 - Setting a footer at the bottom of a page
 - Anything you want in a specific location at all times



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POSITION ABSOLUTE

- Exercise:
 - (Use calc() for perfect center)





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POSITION FIXED

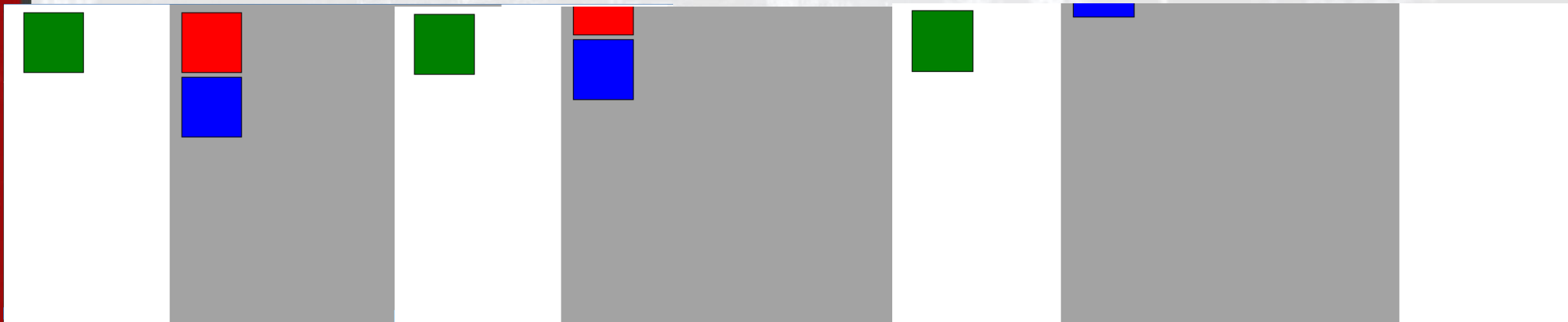


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POSITION FIXED

- Position Fixed remains in the specific location on the viewport while you scroll.



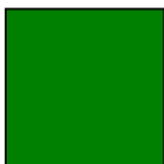


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POSITION FIXED

- Position Fixed has positions based on the screen, not the document itself



```
.green {  
  background-color: green;  
  position: fixed;  
  left: 40px;  
  bottom: 20px;  
}
```



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POSITION FIXED

- Position Fixed is useful for:
 - Navigation bars
 - Back-to-top buttons

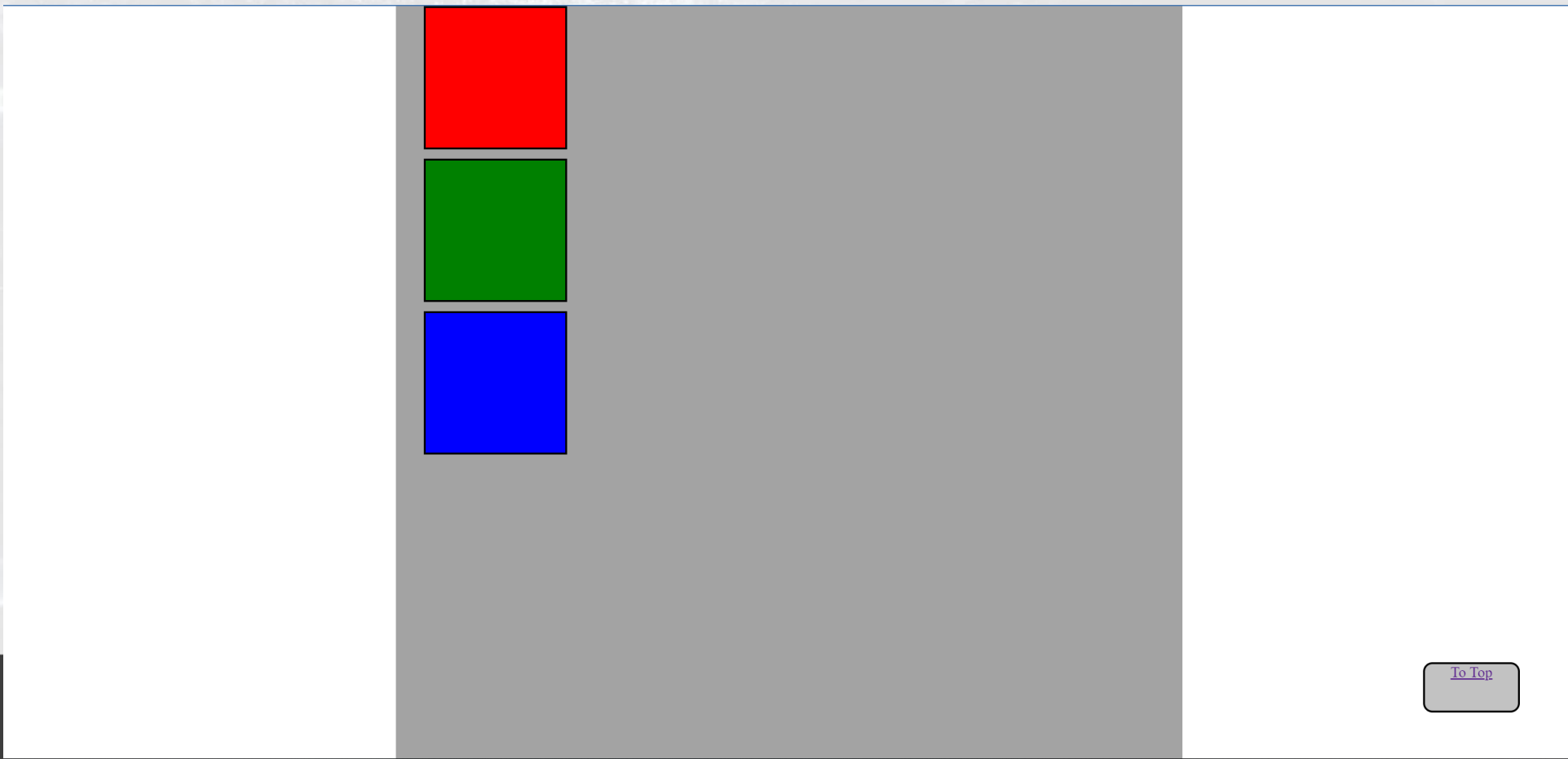


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POSITION FIXED

- Exercise: Make the To Top button scroll to the red box:





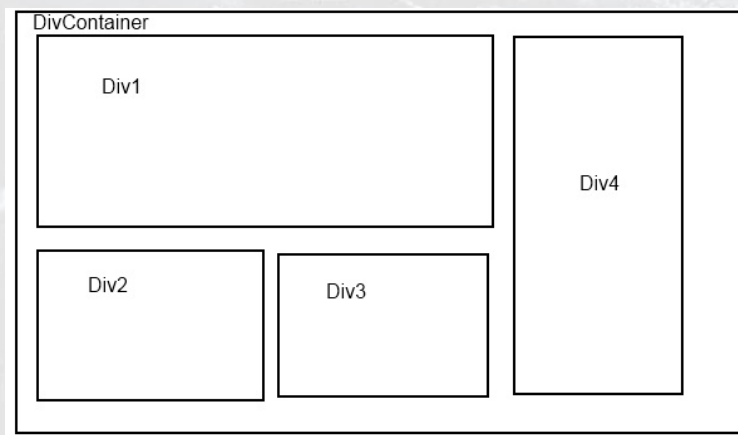
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FLOATS

FLOATS

- Normal flow has elements go top to bottom
- We want to be able to manipulate elements so they can look like this:



```
float: right;  
float: left;  
float: none;
```



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EXTERNAL CSS

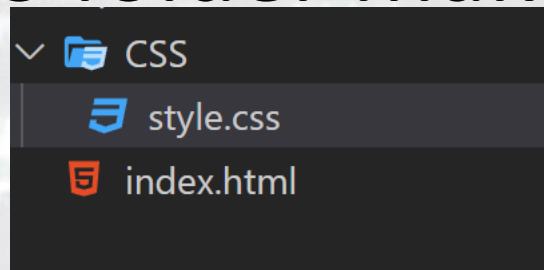


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EXTERNAL CSS

- In ICR120 make a new directory called external_CSS
- Add the index.html
- Add a folder called CSS
- In the CSS folder make a file called style.css





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EXTERNAL CSS

- In the index.html file add a link tag

```
<head>  
  <meta charset="UTF-8" />  
  <meta http-equiv="X-UA-Compatible" content="IE=edge" />  
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />  
  <link rel="stylesheet" href="./CSS/style.css">  
  <title>External CSS</title>  
</head>
```



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EXTERNAL CSS

- Go to style.css and check if its working by adding body background color

```
index.html style.css ×
CSS > style.css > body
1 body{
2   background-color: red;
3 }
```



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ORGANIZATION



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ORGANIZATION

- When you are writing CSS you may have noticed that you use the same property over and over.
- One way to prevent this is by making generic classes.

```
<div class="container flex justify-center">  
  <div class="bg-red box"></div>  
  <div class="bg-green box"></div>  
  <div class="bg-blue box"></div>  
</div>  
  
<div class="container flex">  
  <div class="bg-red box"></div>  
  <div class="bg-green box"></div>  
  <div class="bg-blue box"></div>  
</div>
```

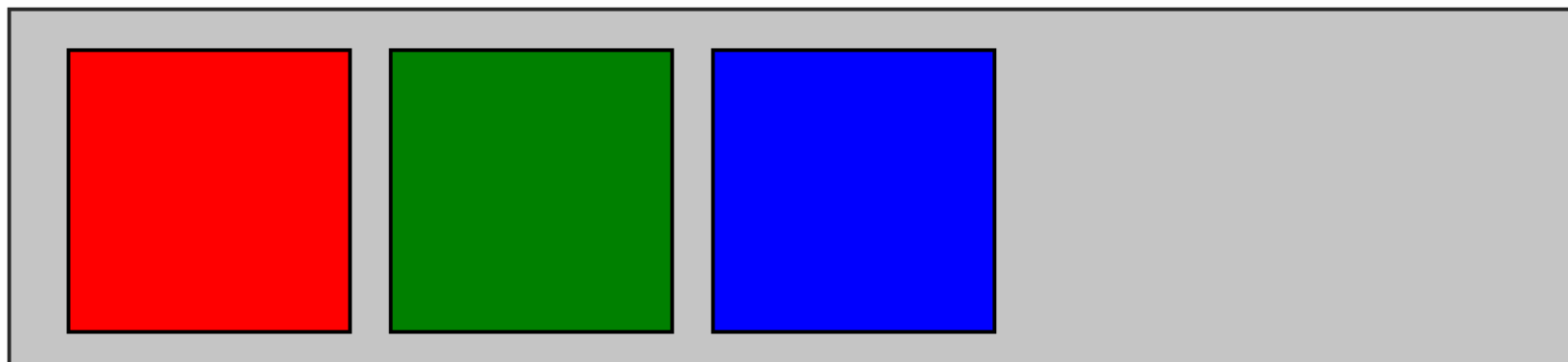
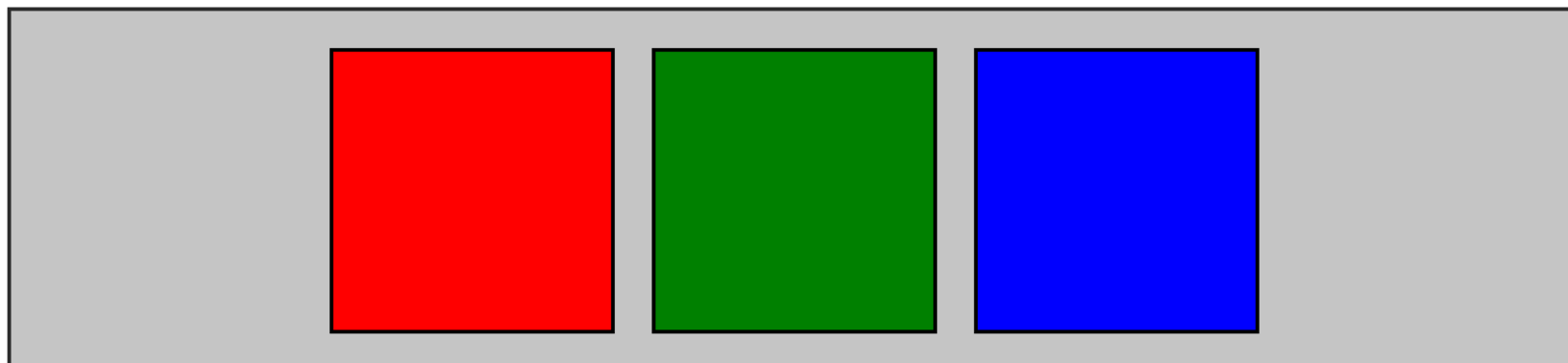
```
.flex{  
  display: flex;  
}  
  
.justify-center{  
  justify-content: center;  
}
```

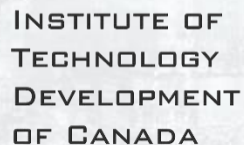


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