

Flexbox

Flexbox makes it easier to design flexible responsive layout structure without using float or positioning.

Display:flex

```
<body>
  <div class="main-div">
    <div class="flex-container">
      <div>First Div</div>
      <div>Second Div</div>
      <div>Third Div</div>
      <div>Fourth Div</div>
      <div>Fifth Div</div>
      <div>Sixth Div</div>
    </div>
  </div>
</body>
```

```
<style>
  .flex-container {
    display: flex;
    background-color: #800080;
  }

  .flex-container>div {
    background-color: #f1f1f1;
    margin: 10px;
    padding: 20px;
    font-size: 30px;
  }
</style>
```

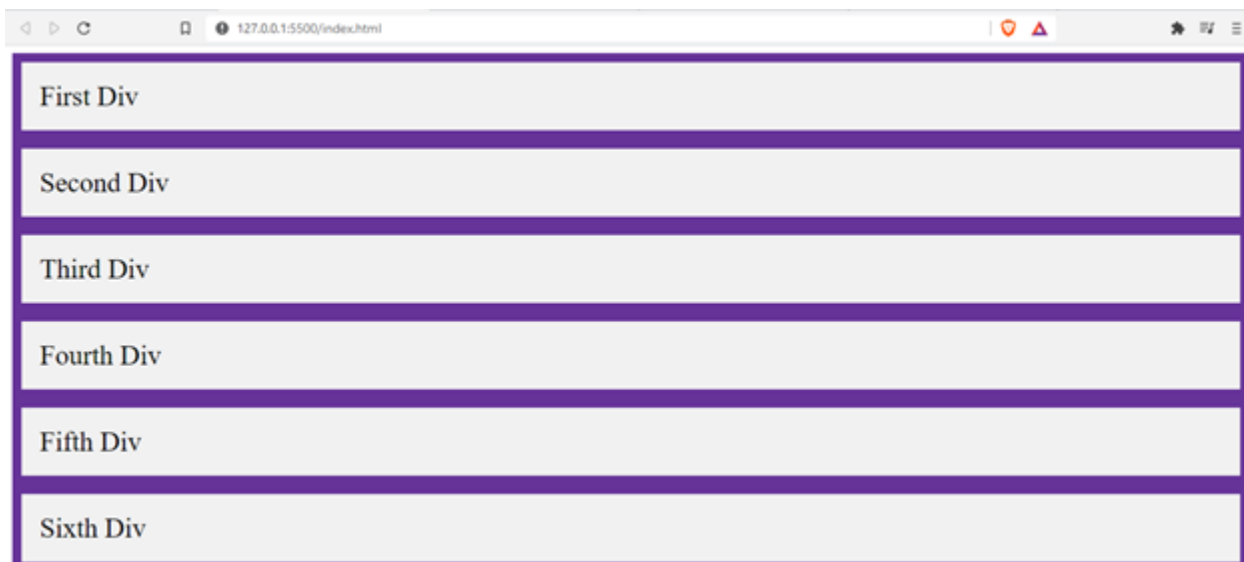
Output:



The flex-direction property defines in which direction the container wants to stack the flex items.

```
.flex-container {  
  display: flex;  
  background-color: rebeccapurple;  
  flex-direction: column;  
  /* column-reverse row row-reverse */  
}
```

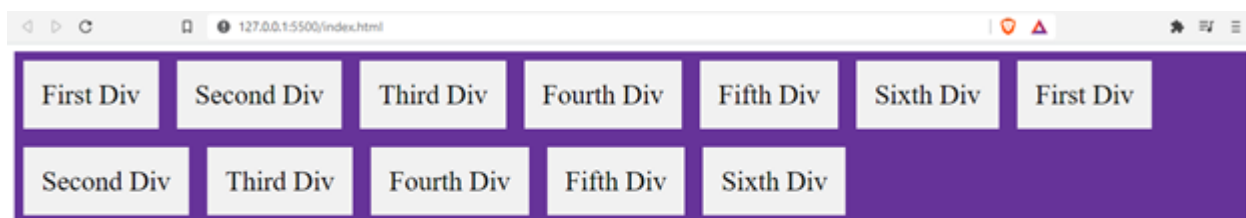
Output:



The flex-wrap property specifies whether the flex items should wrap or not.

```
.flex-container {  
  display: flex;  
  background-color: rebeccapurple;  
  flex-direction: column;  
  /* column-reverse row row-reverse */  
  flex-wrap: wrap;  
  /* nowrap wrap-reverse */  
}
```

Output:



Nowrap demo:

```
.flex-container {  
  display: flex;  
  background-color: rebeccapurple;  
  flex-direction: column;  
  /* column-reverse row row-reverse */  
  flex-wrap: nowrap;  
  /* wrap wrap-reverse */  
}
```

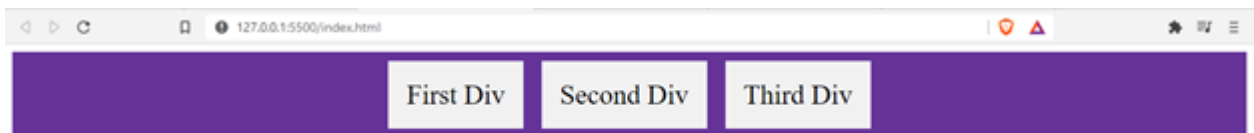
Output:



The justify-content property is used to align the flex items.

```
.flex-container {  
  display: flex;  
  background-color: #rebeccapurple;  
  flex-direction: column;  
  /* column-reverse row row-reverse */  
  flex-wrap: wrap;  
  /* nowrap wrap-reverse */  
  justify-content: center;  
}
```

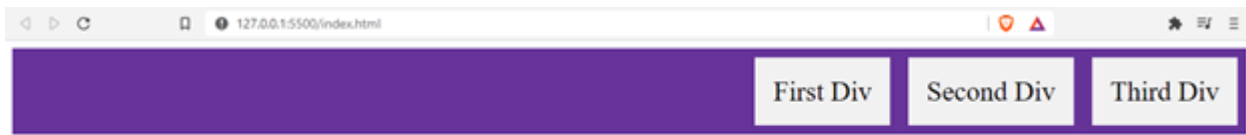
Output:



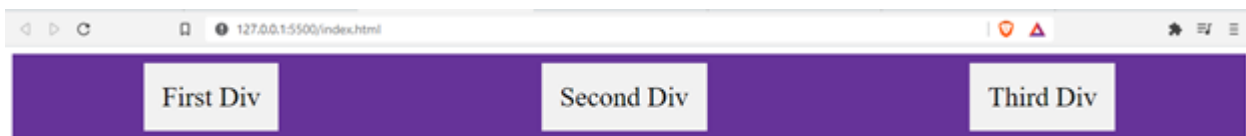
justify-content: flex-start



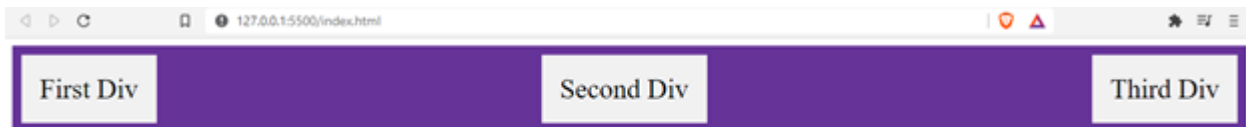
justify-content:flex-end



justify-content:space-around



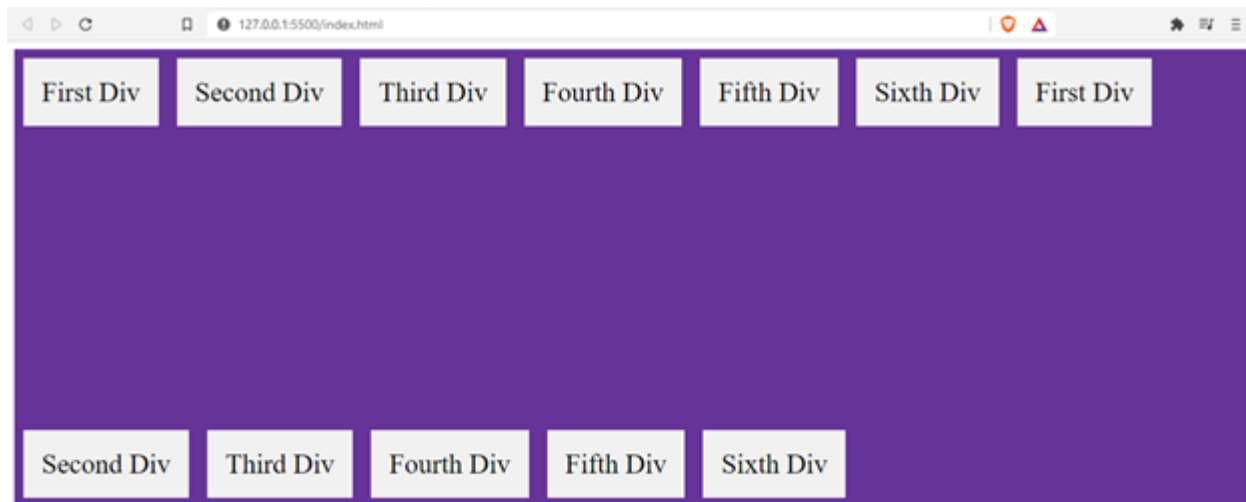
justify-content:space-between



The align-content property is used to align the flex lines. (align-content requires height property to function properly)

```
.flex-container {  
  display: flex;  
  background-color: #rebeccapurple;  
  flex-direction: row;  
  /* column-reverse row row-reverse */  
  flex-wrap: wrap;  
  /* wrap wrap-reverse */  
  height: 500px;  
  align-content: space-between;  
  /* stretch (default) space-around center flex-start flex-end */  
}
```

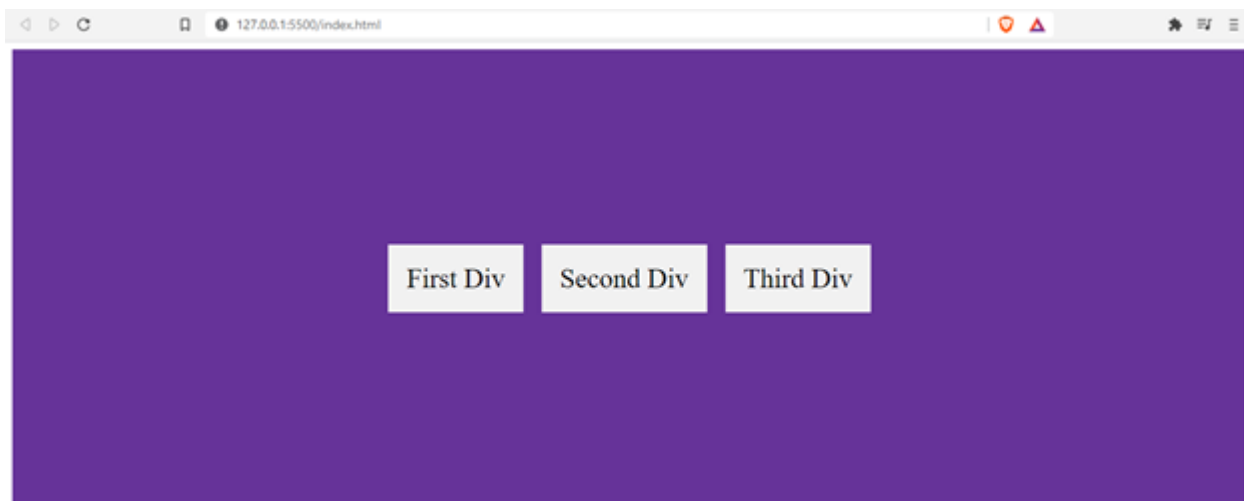
Output:



For perfect centering, we need to set both the justify-content and align-items properties to center.

```
.flex-container {  
  display: flex;  
  background-color: rebeccapurple;  
  flex-direction: row;  
  /* column-reverse row row-reverse */  
  flex-wrap: wrap;  
  /* wrap wrap-reverse */  
  align-items: center;  
  /* flex-start flex-end stretch(default) baseline */  
  justify-content: center;  
  height: 500px;  
}
```

Output:



Note:

- Justify-content is used for horizontal aligning of the items.
- Align-content is used for vertical aligning of the items.