

CSS Flexbox Properties

Parent Element (Container)

The parent container is what holds the child inside. If you were to draw a big box with a little box inside of it, the bigger box would be the parent, the smaller box **INSIDE** would be the child.



The flex container becomes flexible by setting the **display** property to **flex**:

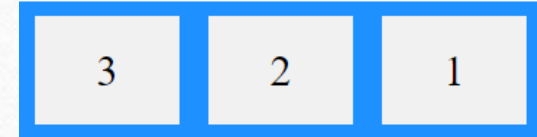
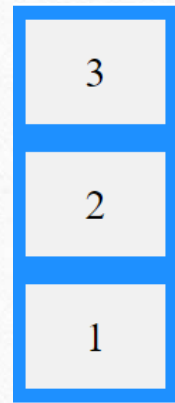
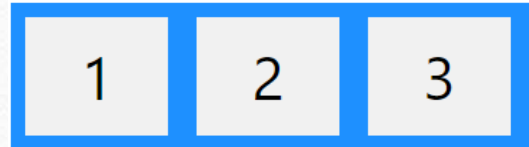
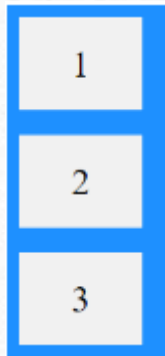
The flex container properties are:

Property	Description
<u>align-content</u>	Modifies the behavior of the flex-wrap property. It is similar to align-items, but instead of aligning flex items, it aligns flex lines
<u>align-items</u>	Vertically aligns the flex items when the items do not use all available space on the cross-axis
<u>display</u>	Specifies the type of box used for an HTML element
<u>flex-direction</u>	Specifies the direction of the flexible items inside a flex container
<u>flex-flow</u>	A shorthand property for flex-direction and flex-wrap
<u>flex-wrap</u>	Specifies whether the flex items should wrap or not, if there is not enough room for them on one flex line
<u>justify-content</u>	Horizontally aligns the flex items when the items do not use all available space on the main-axis

Flex Direction Property

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

- ❖ column
- ❖ row
- ❖ column-reverse
- ❖ Row-reverse

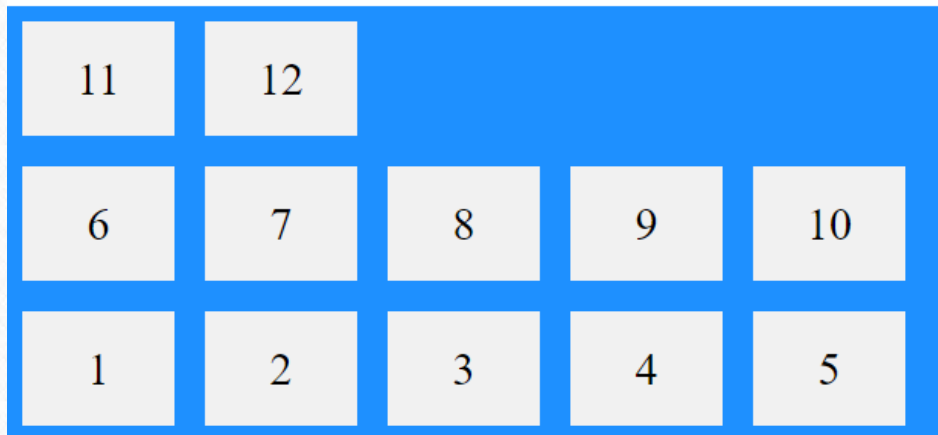


Flex Wrap Property

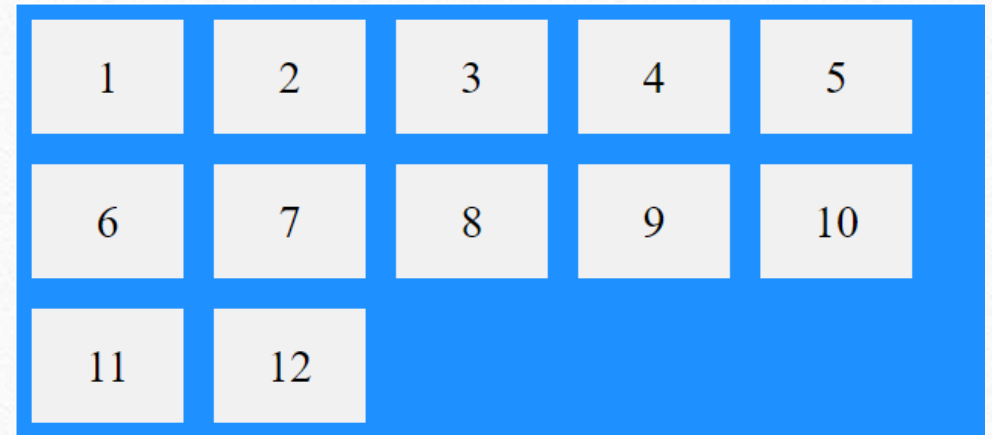
The **flex-wrap** property specifies whether the flex items should wrap or not.

- ❖ wrap
- ❖ nowrap
- ❖ wrap-reverse

wrap-reverse



wrap

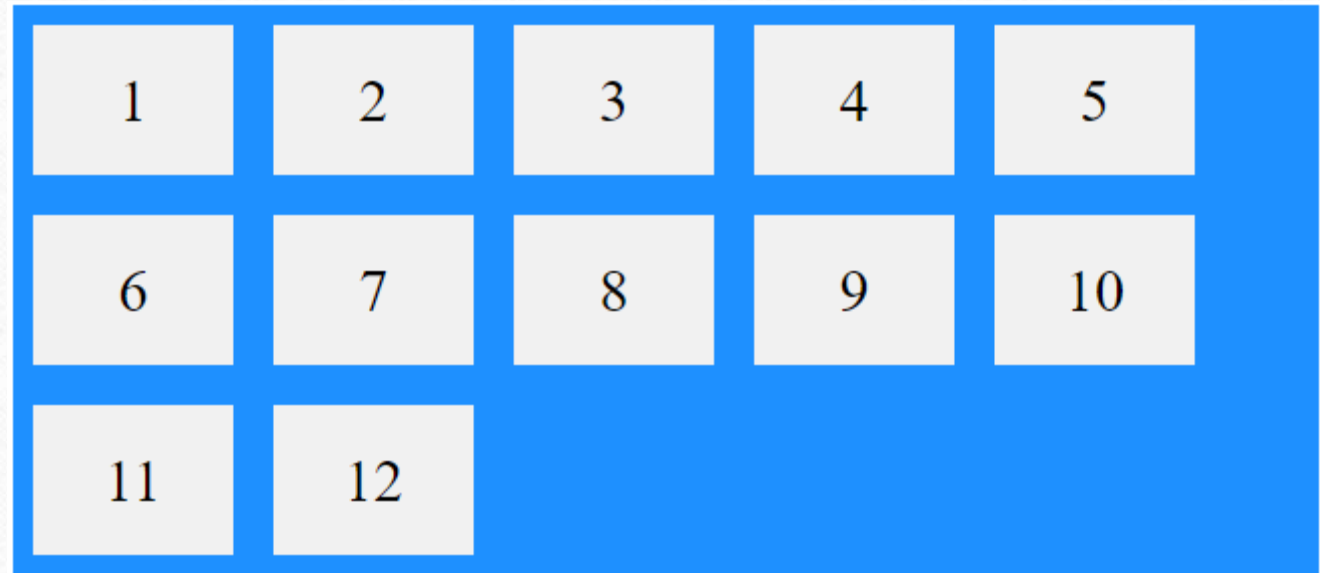


Flex-flow Property

The `flex-flow` property is a shorthand property for setting both the `flex-direction` and `flex-wrap` properties.

Example - :

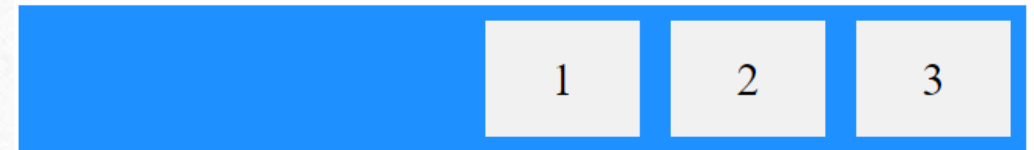
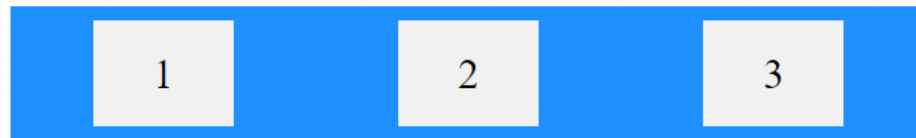
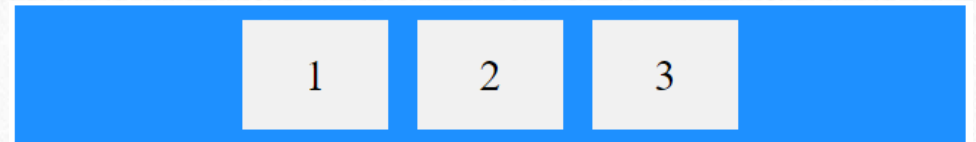
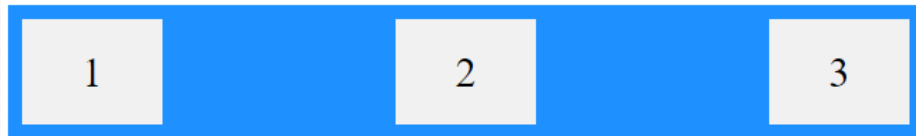
```
.flex-container {  
  display: flex;  
  flex-flow: row wrap;  
}
```



Justify-content Property

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

- ❖ `justify-content: center;`
- ❖ `justify-content: flex-start;`
- ❖ `justify-content: flex-end;`
- ❖ `justify-content: space-between;`
- ❖ `justify-content: space-around;`



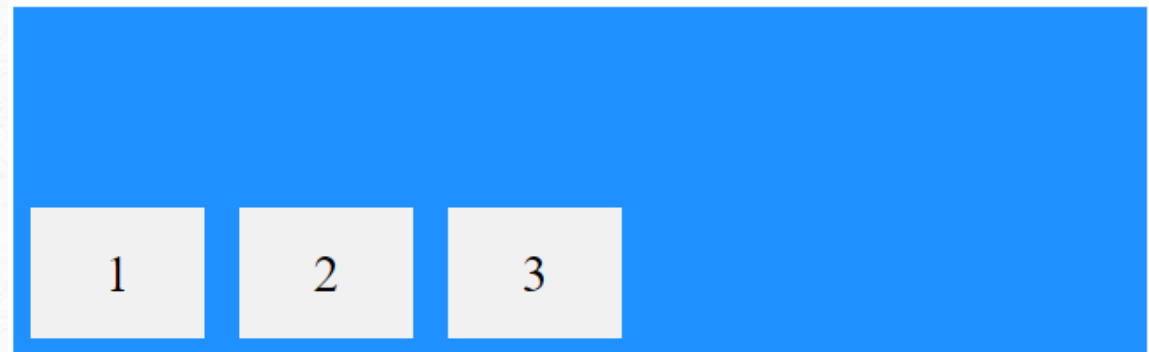
Align-item Property

The `align-items` property is used to align the flex items.

```
align-items: flex-start;  
align-items: flex-end;  
align-items: center;  
align-items: stretch;
```

Example - :

```
.flex-container {  
  display: flex;  
  height: 200px;  
  align-items: flex-end;  
}
```



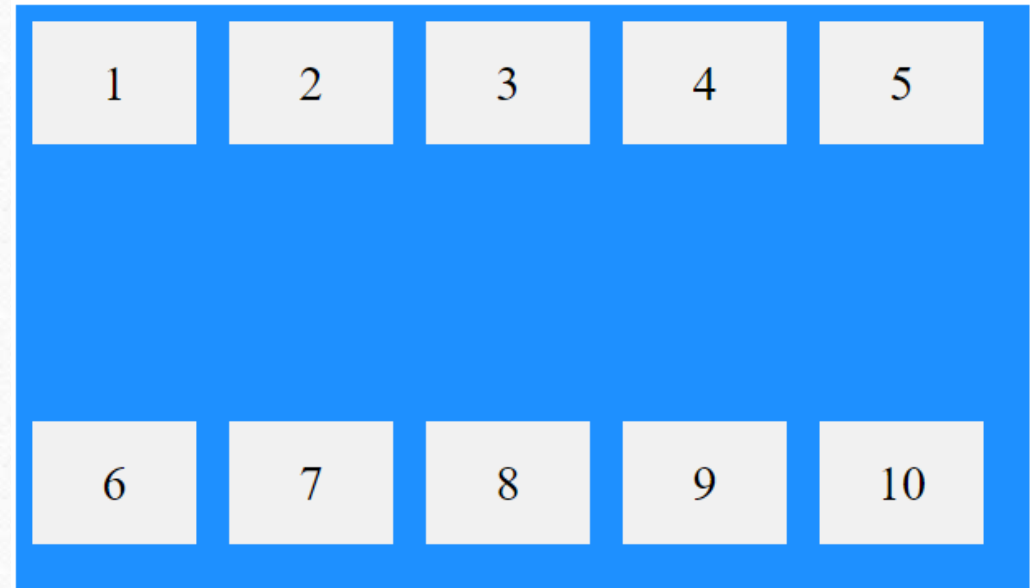
Align-content Property

The `align-content` property is used to align the flex lines.

```
align-content: space-between;  
align-content: space-around;  
align-content: flex-start;  
align-content: flex-end;  
align-content: center;
```

Example -:

```
.flex-container {  
  display: flex;  
  height: 600px;  
  flex-wrap: wrap;  
  align-content: space-between;  
}
```



The flex Box Items properties are:

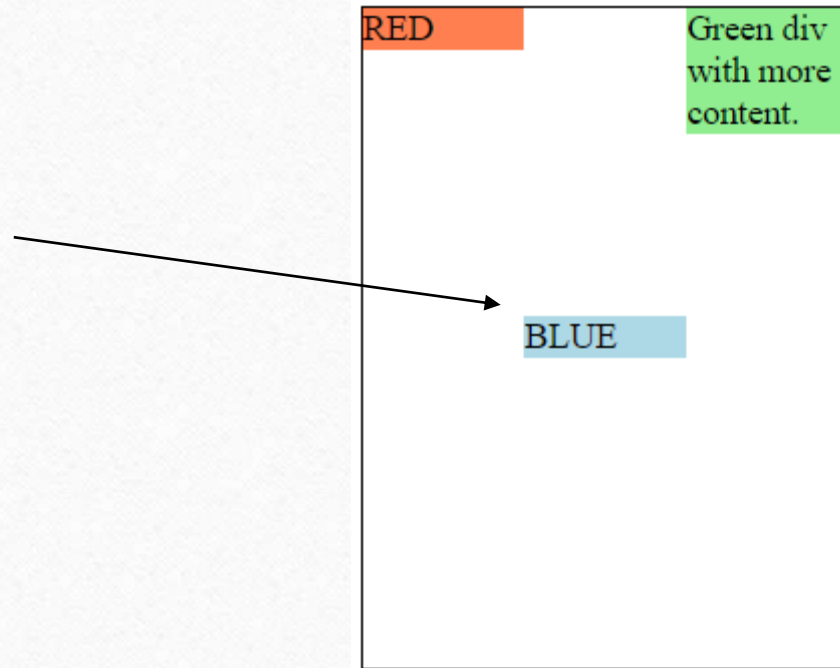
Property	Description
<u>align-self</u>	Specifies the alignment for a flex item (overrides the flex container's align-items property)
<u>flex</u>	A shorthand property for the flex-grow, flex-shrink, and the flex-basis properties
<u>flex-basis</u>	Specifies the initial length of a flex item
<u>flex-grow</u>	Specifies how much a flex item will grow relative to the rest of the flex items inside the same container
<u>flex-shrink</u>	Specifies how much a flex item will shrink relative to the rest of the flex items inside the same container
<u>order</u>	Specifies the order of the flex items inside the same container

Align-self property

Center the **alignments** for one of the items inside a flexible element:

Example -:

```
#myBlueDiv {  
  align-self: center;  
}
```

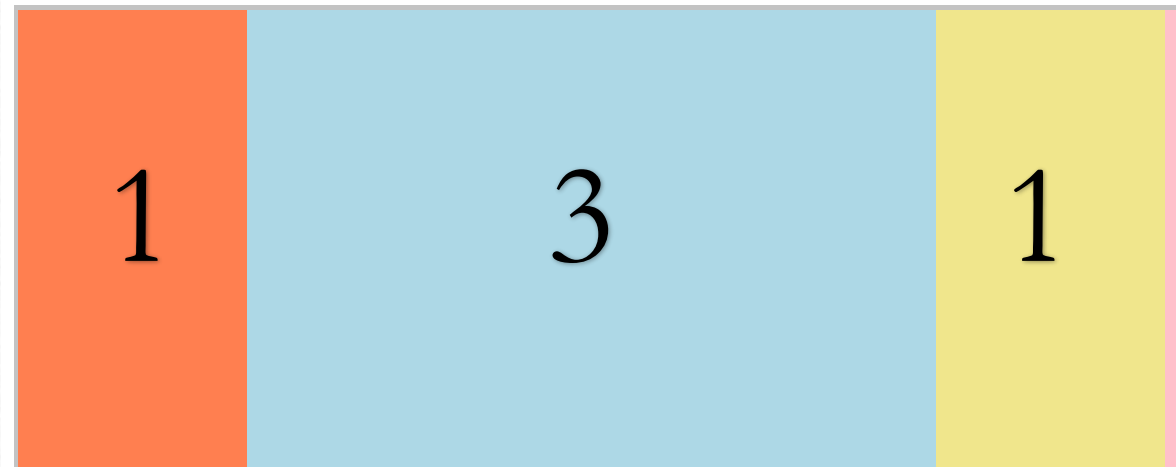


Flex-grow property

Let the second **flex-item** grow three times wider than the rest:

Example -:

```
div1{  
    flex-grow: 1;  
}  
div2{  
    flex-grow: 3;  
}  
div3{  
    flex-grow: 1;  
}
```

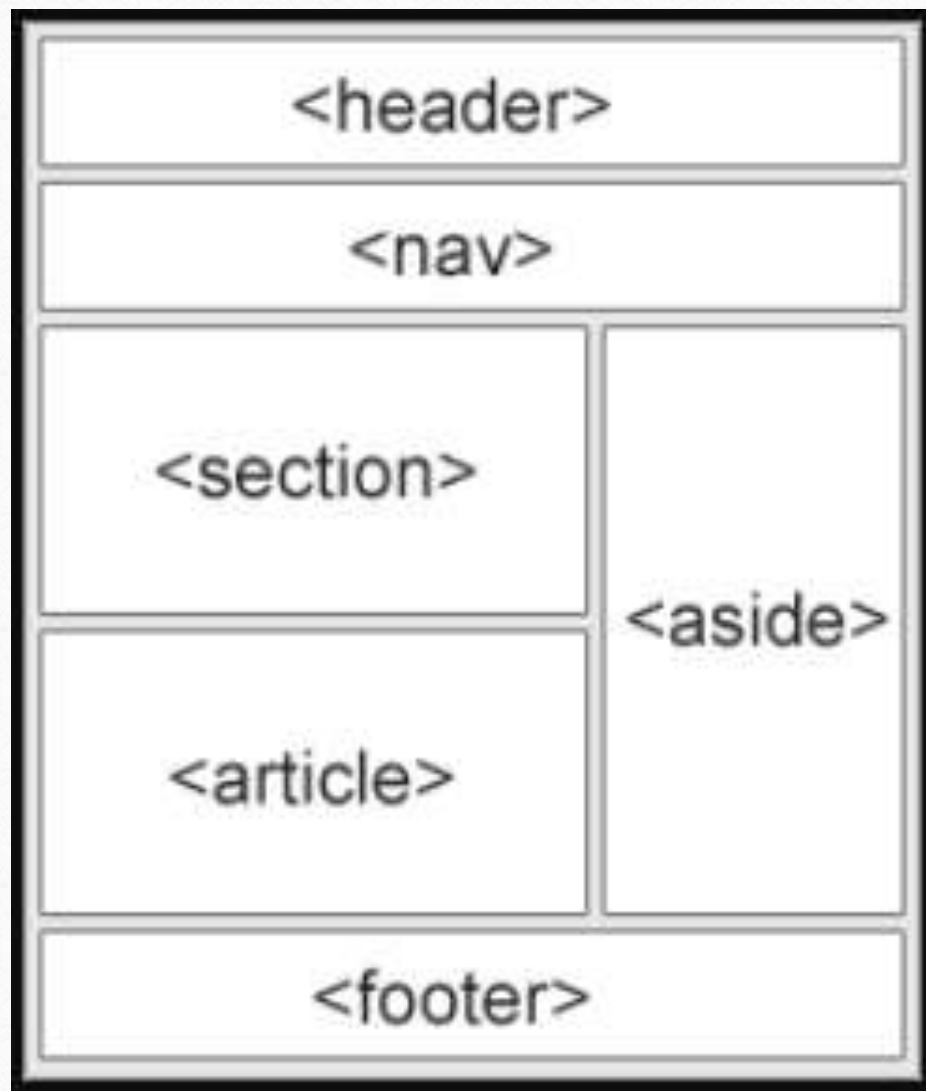


Exercise (HTML Layout)

1.

Header Section	
Navigation Bar	
Index	Content section
Footer Section	

2.



3.

