

## Agenda :

- **Z-Index.**

- **Overflow**

- **FlexBox : Flex Container , Flex Items.**

- **Flex Container :**

- **Flex Direction.** ✓

- **Flex - wrap**

- **Flex - Flow ✓**

- **justify-content ✓**

- **Align-items. / Align-content**

- **Gap : Row Gap , Column Gap**

- **Flex Items :**

- **Order**

- **Flex Flow**

- **Flex Shrink**

- **Flex Basis**

- **Flex : Flex-flow , flex Shrink , Flex Basis/**

- **align-self.**

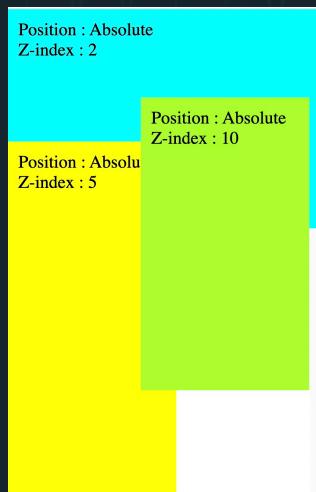
## Z - Index :

```

<div class="div1">Position : Absolute
<br> Z-index : 2</div>
<div class="div2">Position : Absolute
<br> Z-index : 5</div>
<div class="div3">Position : Absolute
<br> Z-index : 10</div>
| 
div{
    font-size: 24px;
    padding: 14px;
}

div.div1{
    position: absolute;
    top: 0;
    left: 0;
    width: 400px;
    height: 270px;
    z-index: 2;
    background-color: #aqua;
}
div.div2{
    position: absolute;
    top: 180px;
    left: 0;
    width: 200px;
    height: 450px;
    z-index: 5;
    background-color: #yellow;
}
div.div3{
    position: absolute;
    top: 120px;
    left: 180px;
    width: 200px;
    height: 370px;
    z-index: 10;
    background-color: #greenyellow;
}

```



## OverFlow :

```

/* OverFlow */
div{
    /* height: 200px; */
    width: 250px;
    background-color: #yellow;
    border: 2px solid #black;
    /* overflow: hidden; */
    /* overflow: visible; */
    overflow-x: scroll;
}

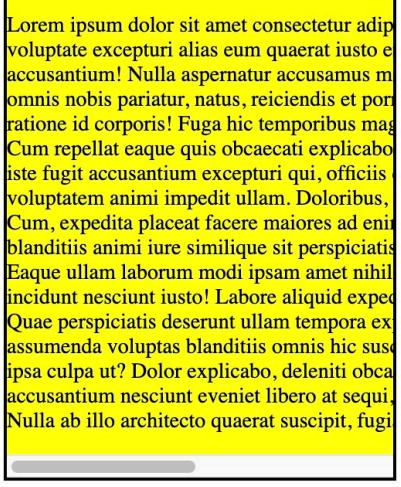
p{
    width: 500px;
    font-size: 14px;
}

```

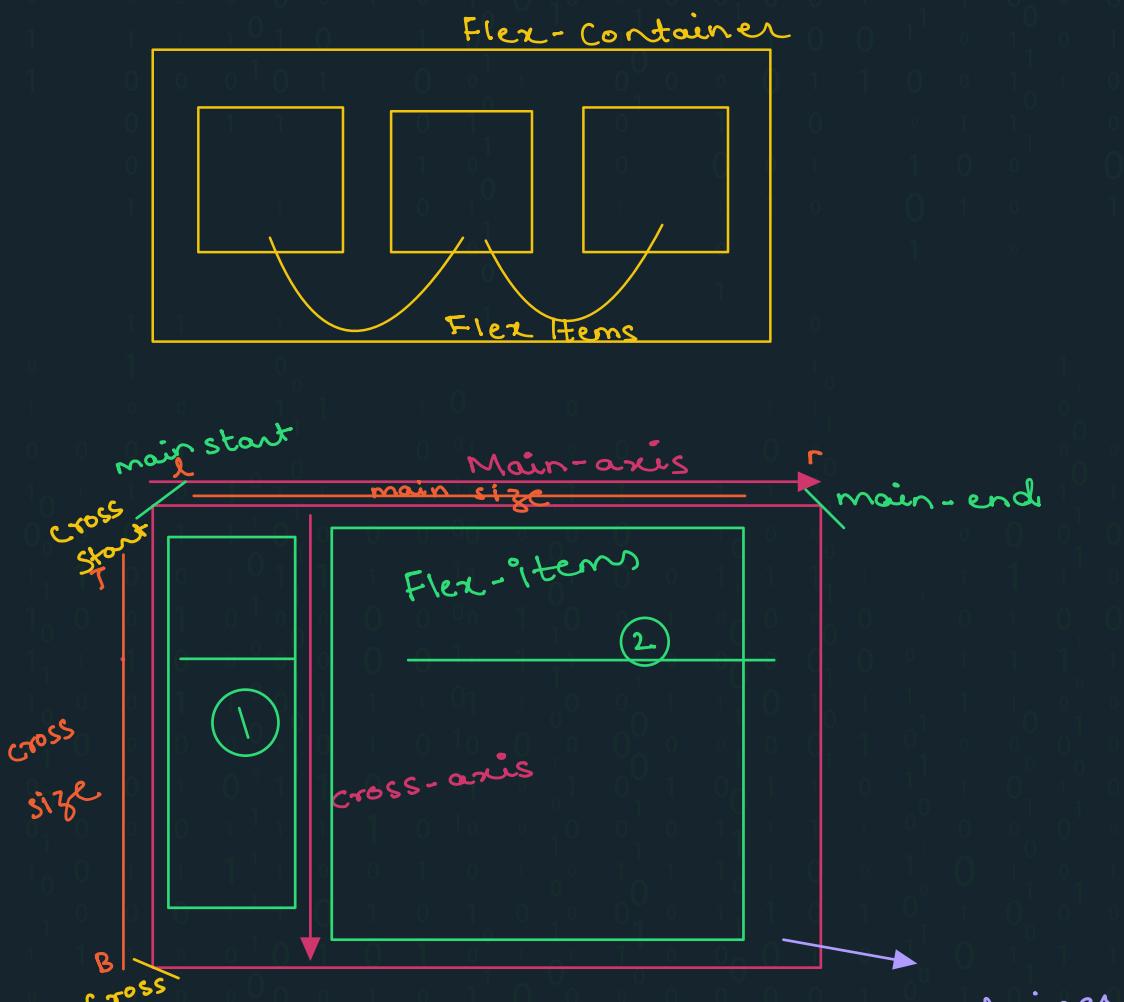
```

<!-- OverFlow -->
<div>
    <p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Quod nesciunt ea culpa! Ex, et voluptate excepturi alias eum querat iusto enim unde, illum illo blanditiis est. In, quas accusantium! Nulla aspernatur accusamus magni velit nostrum in fuga nesciunt sapiente omnis nobis pariatur, natus, reiciendis et porro nisi facilis impedit soluta vitae harum ex ratione id corporis! Fuga hic temporibus magnam sunt architecto rerum exercitationem. Cum repellat eaque quis obcaecati explicabo deleniti laborum porro. Accusamus, porro, iste fugit accusantium excepturi qui, officiis doloremque voluptatum amet et pariatur voluptatum animi impedit ullam. Doloribus, quisquam! Sed odit mollitia harum suscipit! Cum, expedita placeat facere maiores ad enim ducimus officiis, deserunt consectetur blanditiis animi iure similique sit perspiciatis repellat ratione eum odio veniam incident! Eaque ullam laborum modi ipsam amet nihil. Laboriosas beatae dolor minus esse facere incident nesciunt iusto! Labore aliquid expedita excepturi similique culpa molestiae! Quae perspiciatis deserunt ullam tempora expedita accusamus ipsum quasi, eos assumenda voluptas blanditiis omnis hic suscipit fugiat temporibus vitae facere dolore ipsa culpa ut? Dolor explicabo, deleniti obcaecatu unde iure amet labore molestias accusantium nesciunt eveniet libero at sequi, aperiam modi asperiores atque quidem! Nulla ab illo architecto querat suscipit, fugiat adipisci sepe? Rem illo temporibus quia?</p>
</div>

```



## FLEX-BOX :



**Flex Container :** →

**FLEX - DIRECTION :**

- Row , Row-Reverse [Main Axis]

- Column , Column-Reverse [Cross Axis]

Main - axis → ltr

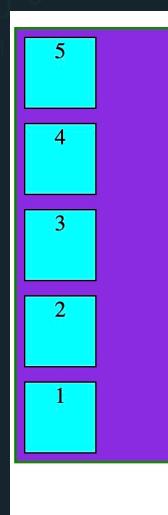
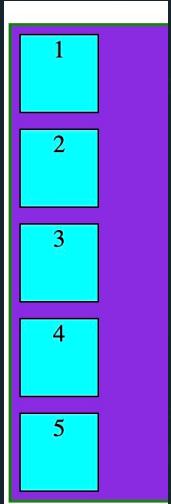
Flex-Direction : Row



rtl



Cross-axis : top to bottom



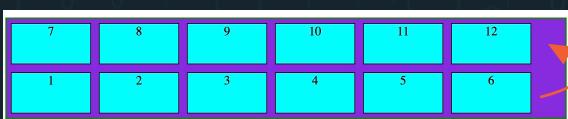
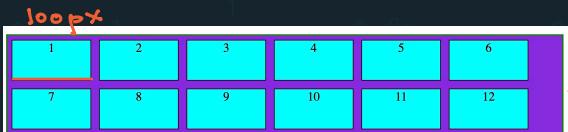
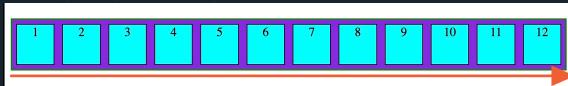
bottom to top

**FLEX - WRAP :**

```
div.container{
  display: flex;
  flex-direction: row;
  flex-wrap: nowrap;
  border: 2px solid green;
  background-color: blueviolet;
}

div.box{
  width: 100px;
  height: 50px;
  text-align: center;
  border: 1px solid black;
  background-color: aqua;
  margin: 5px;
}
```

```
<h2>Flex-Direction : Row </h2>
<div class="container">
  <div class="box">1</div>
  <div class="box">2</div>
  <div class="box">3</div>
  <div class="box">4</div>
  <div class="box">5</div>
  <div class="box">6</div>
  <div class="box">7</div>
  <div class="box">8</div>
  <div class="box">9</div>
  <div class="box">10</div>
  <div class="box">11</div>
  <div class="box">12</div>
</div>
```



**Flex-flow : <flex\_direction> <flex-wrap>**

**flex-flow: row nowrap;**

**shorthand property**

**Justify-content :**

- Align your content in horizontal Direction.
- Note : This will not work without `display : flex`

-> **Direction : Row / Column [Works]**

-> **flex-start/end , center , space-between , space-around ,  
space-evenly;**

```
div.container{
  display: flex;
  height: 500px;
  /* flex-direction: row;
  flex-wrap: wrap-reverse; */
  justify-content: center;
  flex-flow: column nowrap;
  border: 2px solid green;
  background-color: blueviolet;
}

div.box{
  width: 50px;
  height: 50px;
  text-align: center;
  border: 1px solid black;
  background-color: aqua;
  margin: 5px;
}
```



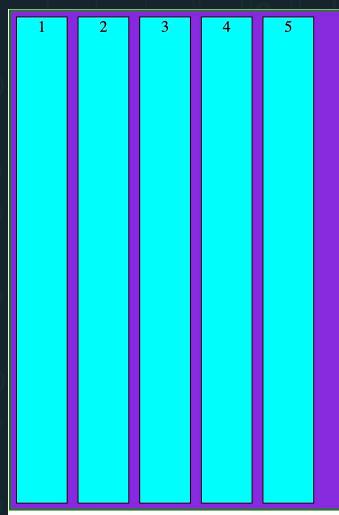
## Align-items :

- Align the content in vertical direction / Cross Axis.

- Row / Columns.

- Flex-start , Flex-end ,center , Stretch .

```
div.container{
  display: flex;
  height: 500px;
  /* flex-direction: row;
  flex-wrap: wrap-reverse; */
  /* justify-content: center; */
  align-items: stretch;
  flex-flow: row nowrap;
  border: 2px solid green;
  background-color: blueviolet;
}
div.box{
  width: 50px;
  /* height: 50px; */
  text-align: center;
  border: 1px solid black;
  background-color: aqua;
  margin: 5px;
}
```



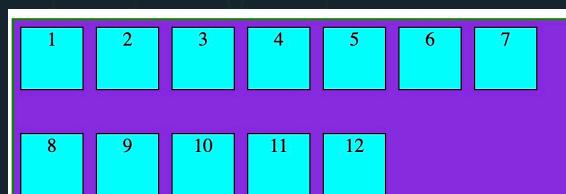
## Align-content : flex-wrap : no-wrap [It doesn't work.]

- Flex Start , flex-end , center , space-between , etc

## GAP :

row-gap , column-gap , gap.

```
div.container{
  display: flex;
  height: 500px;
  /* flex-direction: row;
  flex-wrap: wrap-reverse; */
  /* justify-content: center; */
  /* align-items: space-around; */
  align-content: flex-start;
  row-gap: 25px;
  flex-flow: row wrap;
  border: 2px solid green;
  background-color: blueviolet;
}
div.box{
  width: 50px;
  height: 50px;
  text-align: center;
  border: 1px solid black;
  background-color: aqua;
  margin: 5px;
}
```



## Flex-Items : Inner Container :

### 1. Order .

```
-- Flex Items -->
<h2>Order Property</h2>
<div class="container">
  <div class="box box1">Box-1 Order 3</div>
  <div class="box box2">Box-2 Order 1</div>
  <div class="box box3">Box-3 Order 2</div>
</div>
```

## Order Property



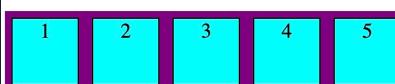
```
/* Flex Items */
div.container{
  display: flex;
  flex-direction: row;
  background-color: #purple;
}
div.box{
  width: 50px;
  height: 50px;
  text-align: center;
  border: 1px solid black;
  background-color: #aqua;
  margin: 5px;
}
div.box1{
  order: 3;
  background-color: #greenyellow;
}
div.box2{
  order: 1;
  background-color: #orange;
}
div.box3{
  order: 2;
  background-color: #red;
}
```

## Flex-Grow

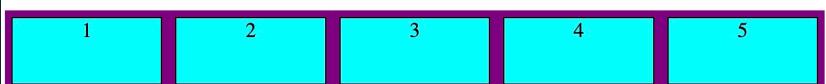
```
<h2>Flex Grow : 0</h2>
<div class="container container1">
  <div class="box">1</div>
  <div class="box">2</div>
  <div class="box">3</div>
  <div class="box">4</div>
  <div class="box">5</div>
</div>
<h2>Flex Grow : 1</h2>
<div class="container container2">
  <div class="box">1</div>
  <div class="box">2</div>
  <div class="box">3</div>
  <div class="box">4</div>
  <div class="box">5</div>
</div>
```

```
div.container{
  display: flex;
  flex-direction: row;
  background-color: #purple;
}
div.box{
  width: 50px;
  height: 50px;
  text-align: center;
  border: 1px solid black;
  background-color: #aqua;
  margin: 5px;
}
div.container2 div.box{
  flex-grow: 1;
}
```

## Flew Grow : 0



## Flew Grow : 1



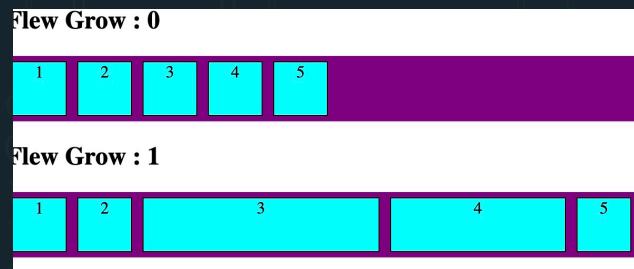
```
div.container{  
    display: flex;  
    flex-direction: row;  
    background-color: #purple;  
}  
div.box{  
    width: 50px;  
    height: 50px;  
    text-align: center;  
    border: 1px solid black;  
    background-color: #aqua;  
    margin: 5px;  
}  
/* div.container2 div.box{  
    flex-grow: 1;  
} */  
.box3{  
    flex-grow: 3;  
}  
.box4[  
    flex-grow: 2;  
}
```

### Flex-Shrink :

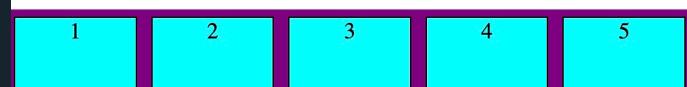
```
div.container{  
    display: flex;  
    flex-direction: row;  
    background-color: □purple  
}  
div.box{  
    width: 150px;  
    height: 50px;  
    text-align: center;  
    border: 1px solid □black;  
    background-color: □aqua;  
    margin: 5px;  
}  
/* div.container2 div.box{  
    flex-grow: 1;  
} */  
.box3{  
    flex-shrink: 3;  
}  
.box4{  
    flex-shrink: 2;  
}
```

## Flex-Basis :

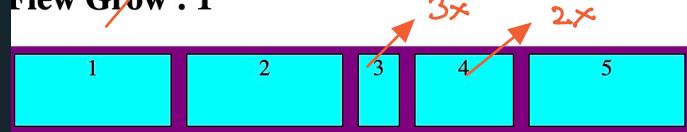
```
    }
    div.box{
        width: 150px;
        height: 50px;
        text-align: center;
        border: 1px solid black;
        background-color: aqua;
        margin: 5px;
    }
    /* div.container2 div.box{
        flex-grow: 1;
    } */
    .box3{
        flex-basis: 250px;
    }
    /* .box4{
        flex-shrink: 2;
    } */
```



Flew Grow : 0



~~Flow Grow : 1~~



Flew Grow : 0



Flew Grow : 1



**Flex :** `<flex_grow>` , `<flex_shrink>` , `<flex_basis>`.

**Align-self :**

```

1 .box3{
1   /* flex-basis: 250px; */
0     align-self: center;
1 }
1 /* .box4{
```

