

UI BASICS

CSS - POSITION

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## POSITION

- The **position** property specifies the **type of positioning method** used for an element.
- It can help you to manipulate the location of an element.

There are five different position values:

- *static* - **by default**
  - *relative*
  - *fixed*
  - *absolute*
  - *sticky*
- 
- Elements are then positioned using the **top, bottom, left and right** properties.
  - However, these properties will not work unless the position property is set first.
  - They also work differently depending on the position value.

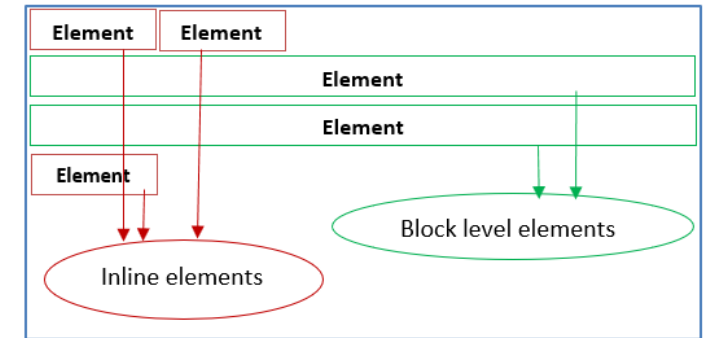
# POSITION

**position : static ;**

**static** ----- > every element has a **static** position **by default**, so the element will stick to the normal page flow.

```
div {  
  width: 200px;  
  height: 200px;  
  margin: 20px 20px;  
  padding: 20px;  
  position: static;  
}  
.one {  
  background: orange;  
}  
.two {  
  background: #c3ee40;  
}  
.three {  
  background: #64eae6;  
}  
.four {  
  background: #d079f5;  
}  
span {  
  padding: 20px;  
}  
span:nth-of-type(1) {  
  padding-left: 200px;  
}
```

```
<div class="one">1</div>  
<div class="two">2</div>  
<div class="three">3</div>  
<div class="four">4</div>  
<span>Span-1</span>  
<span>Span-2</span>  
<span>Span-3</span>
```



**NOTE :** if there is a left/right/top/bottom set then there will be **no effect on that element**.

# POSITION

**position : relative ; - (*relative to itself*)**

- relative** - an element's **original position remains** in the flow of the document.
- The positional properties “**nudge**” the element **from the original position** in that direction.
- It allows element **to be offset relative to itself**.
- The space it takes up doesn't move, so **it won't affect anything around it**.

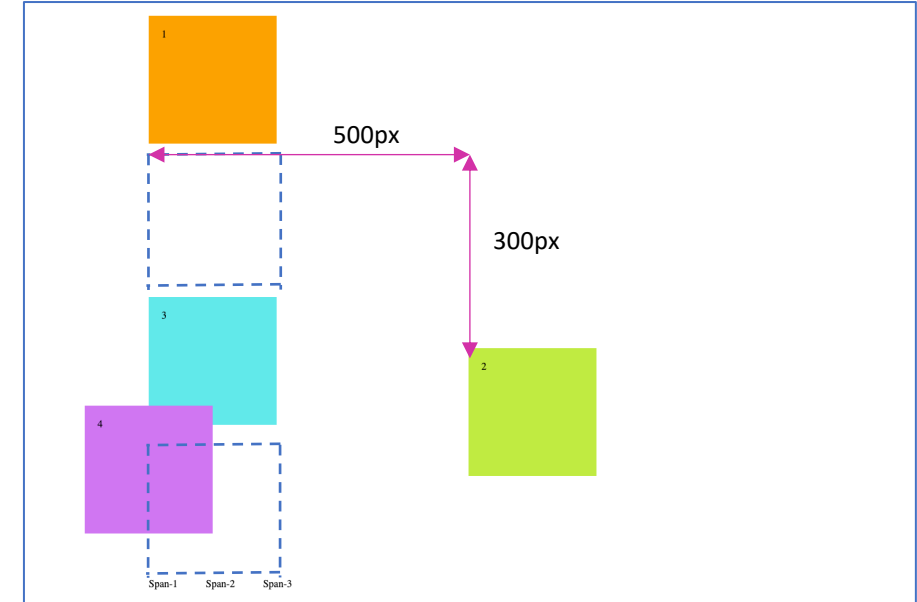
```
.two {  
  background: #c3ee40;  
  position: relative;  
  top: 50px;  
  left: 100px;  
}
```

```
.four {  
  background: #d079f5;  
  position: relative;  
  bottom: 50px;  
  right: 100px;  
}
```



```
.two {  
  background: #c3ee40;  
  position: relative;  
  top: 300px;  
  left: 500px;  
}
```

```
.four {  
  background: #d079f5;  
  position: relative;  
  bottom: 50px;  
  right: 100px;  
}
```



**NOTE :** if there is a left/right/top/bottom set then they **will work**.

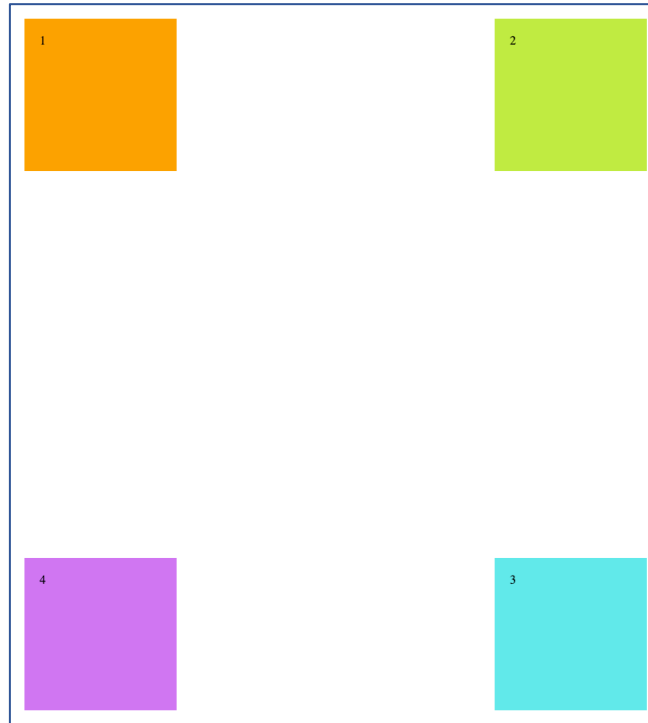
# POSITION

**position : fixed ; - (*relative to viewport*)**

*fixed* - the element is removed from the flow of the document.

- Fixed positioned elements are **always relative to the document/body**, **not any particular parent**
- they are **unaffected by scrolling**. it continues **to stick** to the position **relative to the document**.

```
.one {  
  background: orange;  
  position: fixed;  
  top: 0;  
  left: 0;  
}  
.two {  
  background: #c3ee40;  
  position: fixed;  
  top: 0;  
  right: 0;  
}  
.three {  
  background: #64eae0;  
  position: fixed;  
  bottom: 0;  
  right: 0;  
}  
.four {  
  background: #d079f5;  
  position: fixed;  
  bottom: 0;  
  left: 0;  
}
```



**NOTE :** if there is a left/right/top/bottom set then they **will work**.

## POSITION

**position : absolute ; - (*relative to its nearest parent*)**

**Parent** : relative;  
**Child** : absolute;

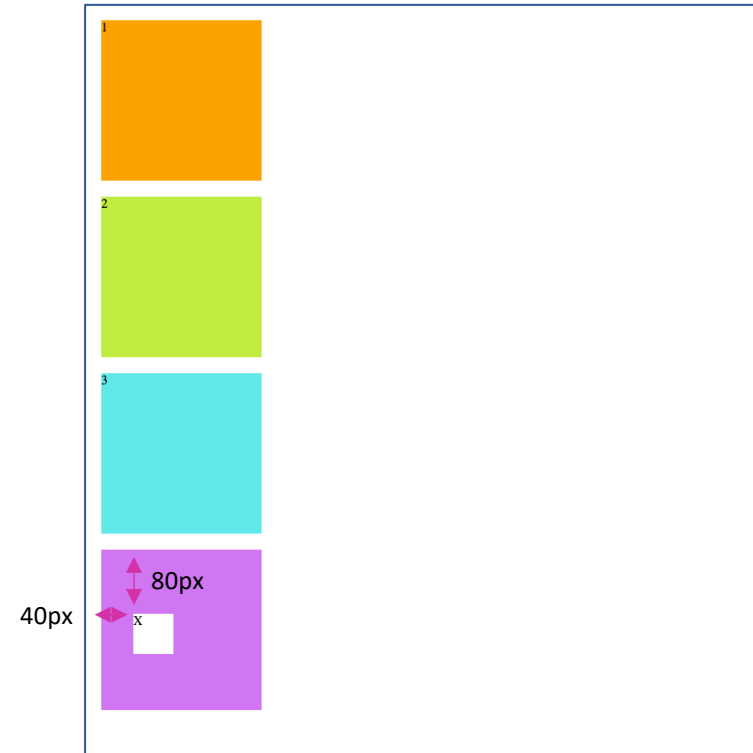
- absolute** - The element is **taken out of normal flow** and leaves **no space behind**.
- The element is positioned ***relative to its nearest parent*** with a relative-type positioning.

```
.four {  
  background: #d079f5;  
  position: relative;  
}  
.box {  
  width: 50px;  
  height: 50px;  
  background: white;  
  
  position: absolute;  
  top: 80px;  
  left: 40px;  
}
```

**Parent {**  
 display: **relative**;  
**}**

**Child {**  
 display: **absolute**;  
**}**

```
<div class="one">1</div>  
<div class="two">2</div>  
<div class="three">3</div>  
<div class="four">  
  <span class="box">X</span>  
</div>
```



**NOTE :** if there is a left/right/top/bottom set then they **will work**.

# POSITION

**position : absolute ; - (*relative to its nearest parent*)**

**Parent : relative;**  
**Child : absolute;**

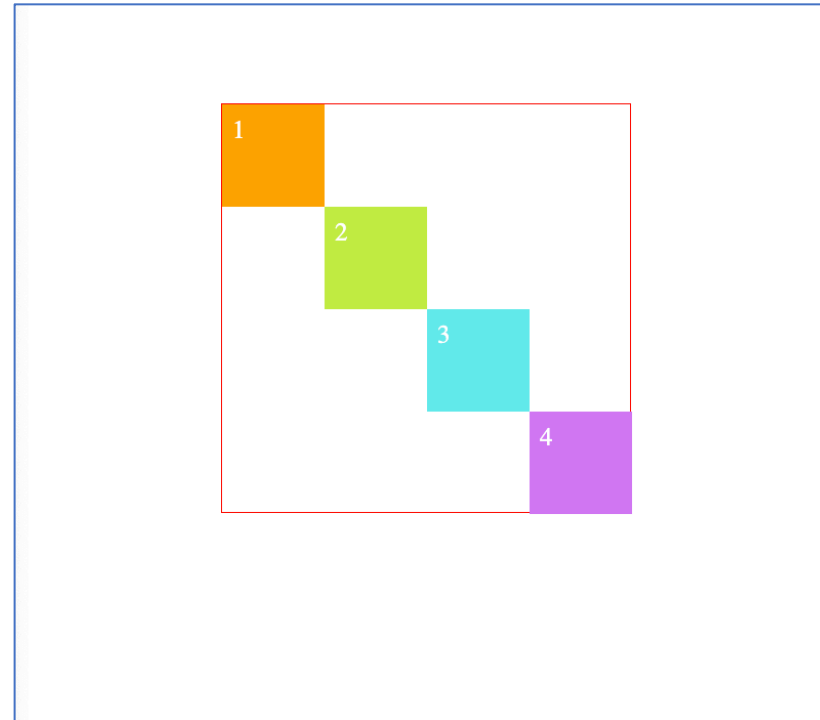
- absolute** - The element is **taken out of normal flow** and leaves **no space behind**.
- The element is positioned ***relative to its nearest parent*** with a relative-type positioning.

```
div.container {  
  width: 400px;  
  height: 400px;  
  margin: 100px auto;  
  position: relative;  
  border: 1px solid red;  
}  
  
div {  
  width: 100px;  
  height: 100px;  
  font-size: 25px;  
  color: white;  
  padding: 10px;  
}  
  
.one {  
  background: orange;  
  position: absolute;  
  top: 0;  
  left: 0;  
}  
  
.two {  
  background: #c3ee40;  
  position: absolute;  
  top: 100px;  
  left: 100px;  
}  
  
.three {  
  background: #64eae6;  
  position: absolute;  
  top: 200px;  
  left: 200px;  
}  
  
.four {  
  background: #d079f5;  
  position: absolute;  
  top: 300px;  
  left: 300px;  
}
```

**Parent {**  
**display: relative;**  
**}**

**Child {**  
**display: absolute;**  
**}**

```
<div class="container">  
  <div class="one">1</div>  
  <div class="two">2</div>  
  <div class="three">3</div>  
  <div class="four">4</div>  
</div>
```



**NOTE :** if there is a left/right/top/bottom set then they **will work**.



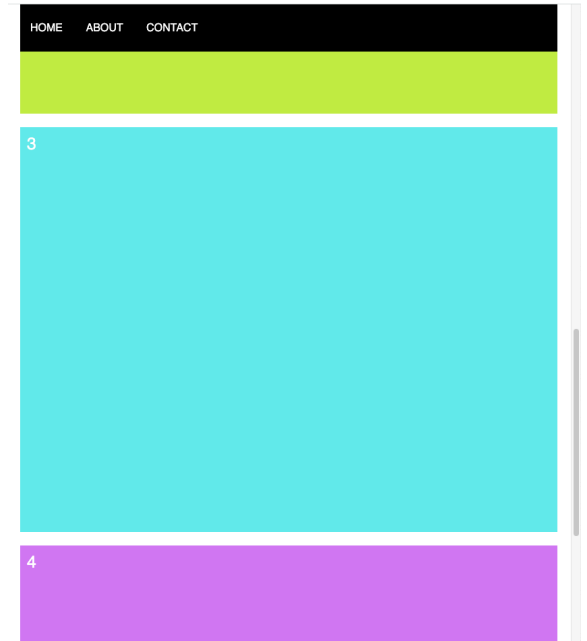
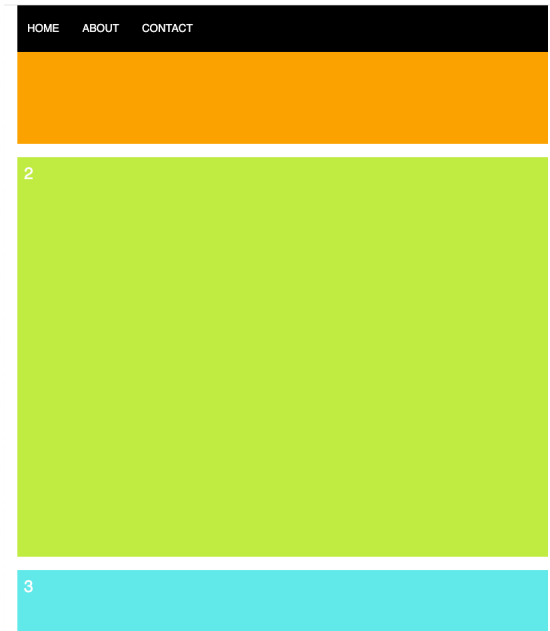
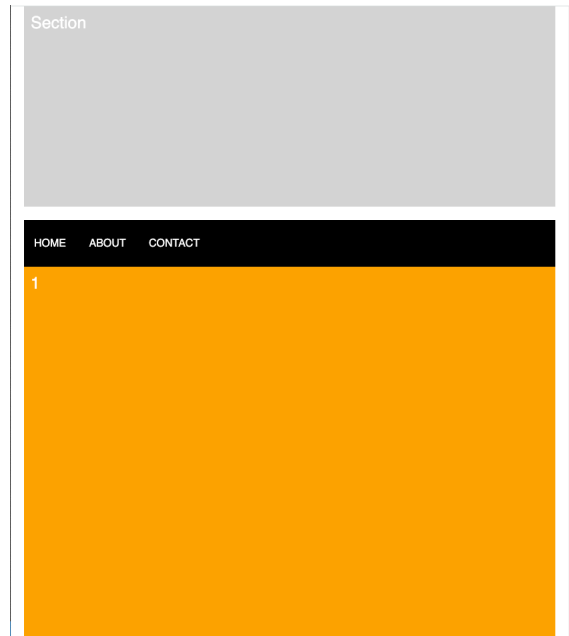
# POSITION

**position : sticky ;**

**sticky** - It allows you to position an element relative to anything on the document and then, once a user has scrolled past a certain point in the viewport, **fix the position of the element to that location so it remains persistently displayed like an element with a fixed value.**

```
nav {  
  width: 100%;  
  height: 70px;  
  background: black;  
  position: sticky;  
  top: 0;  
}
```

```
<section>Section</section>  
<nav>  
  <a href="#">Home</a>  
  <a href="#">About</a>  
  <a href="#">Contact</a>  
</nav>  
  
<div class="one">1</div>  
<div class="two">2</div>  
<div class="three">3</div>  
<div class="four">4</div>
```



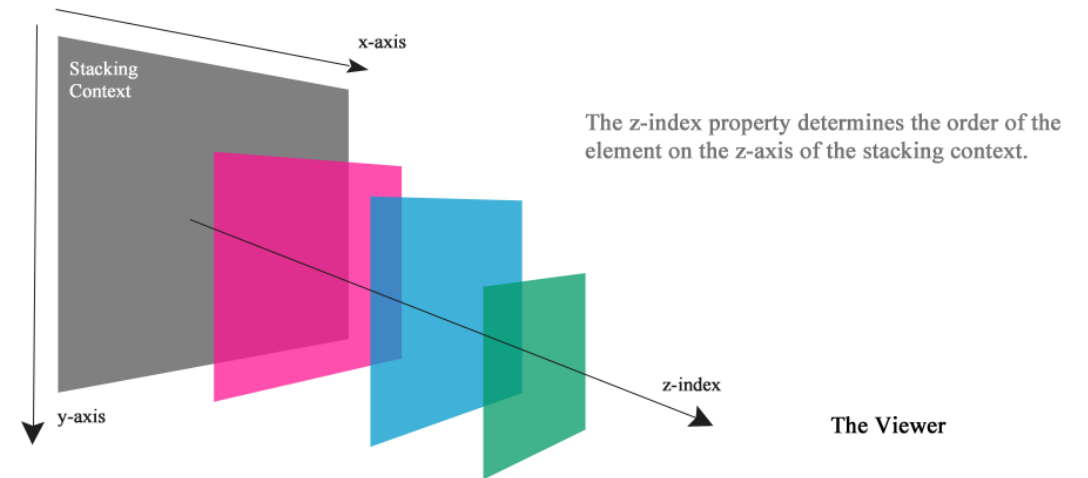
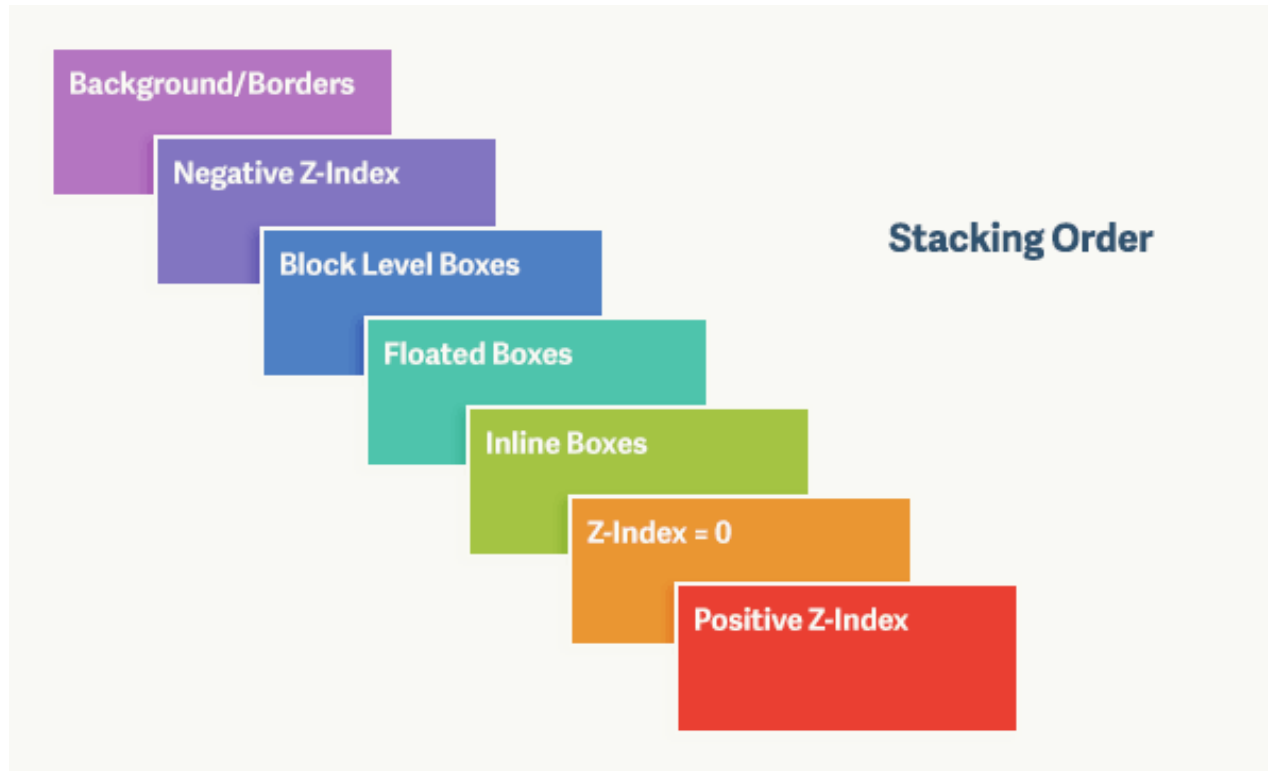
**NOTE :** if there is a left/right/top/bottom set then they **will work**.

# POSITION

## CSS z-index

**z-index** - It specifies the stack order of an element.

- An element with **greater stack order is always in front of an element with a lower stack order.**



**NOTE :** z-index only works on positioned elements. (position: absolute, position: relative, position: fixed, or position: sticky)

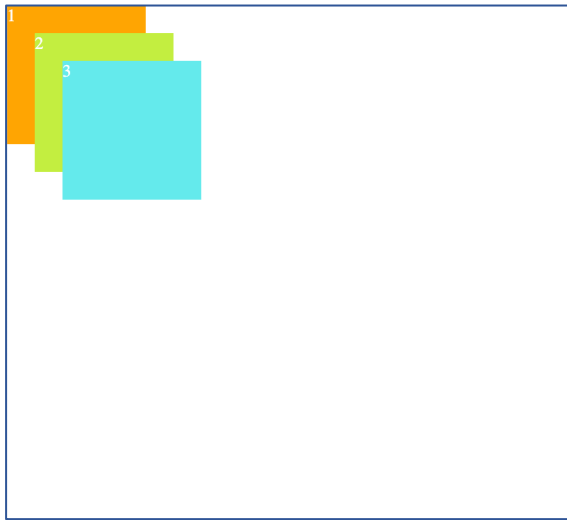
# POSITION

## CSS z-index

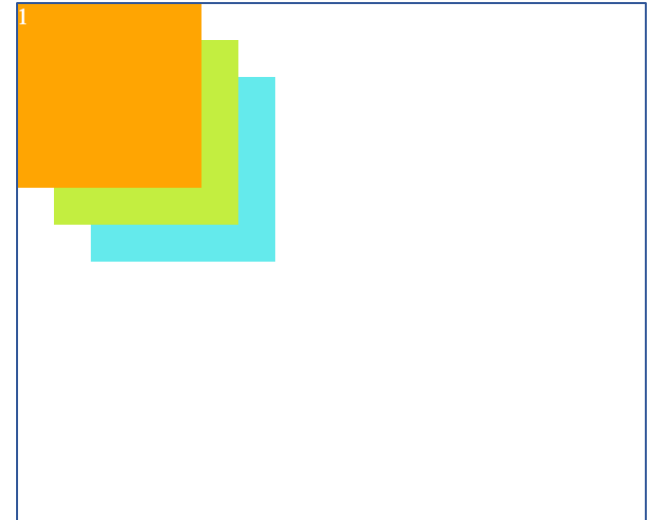
**z-index** - It specifies the stack order of an element.

- An element with **greater stack order is always in front of an element with a lower stack order.**

```
div {  
  width: 200px;  
  height: 200px;  
  font-size: 25px;  
  color: white;  
  position: absolute;  
}  
.z1 {  
  background: orange;  
}  
.z2 {  
  background: #c3ee40;  
  top: 40px;  
  left: 40px;  
}  
.z3 {  
  background: #64eaec;  
  top: 80px;  
  left: 80px;  
}
```



```
.z1 {  
  background: orange;  
  z-index: 2;  
}  
.z2 {  
  background: #c3ee40;  
  top: 40px;  
  left: 40px;  
  z-index: 1;  
}  
.z3 {  
  background: #64eaec;  
  top: 80px;  
  left: 80px;  
}
```



```
<div class="z1">1</div>  
<div class="z2">2</div>  
<div class="z3">3</div>
```

**NOTE :** z-index only works on positioned elements. (*position: absolute, position: relative, position: fixed, or position: sticky*)

# POSITION

## position: static

- Default positioning for all elements.
- Puts element in normal flow.

## position: relative

- Can be offset with **top**, **right**, **bottom** and **left**.
- Offset relative to *itself*.
- Creates relative-type positioning context for children (**for parents**).

## position: absolute

- Can be offset with **top**, **right**, **bottom** and **left**.
- Offset relative to its *nearest relative-type positioned parent*.
- Creates relative-type positioning context for children (**for Children**).

## position: fixed

- Can be offset with **top**, **right**, **bottom** and **left**.
- Offset relative to *the viewport*.
- Creates relative-type positioning context for children (**for parents**).

