

# **CSS Positioning**

### **Topics Covered:**

- Block level elements.
- CSS position property.
- Possible values of Position property.
- Z-index.

#### **Topics in Detail:**

#### **Block level elements:**

- Block level elements create a full width of their parent elements, and they prevent other elements from appearing in the same horizontal line.
- Block level elements take up their own line of space and do not overlap with each other.
- The default position of the block level elements is to appear on the left side of the browser.



• The default position of an element can be changed by using *position* property.

# **CSS Position Property:**

- The CSS *position* property is used to set position for an element.
- The CSS *position* property is also used to place an element behind another and also useful for scripted animation effects.
- The CSS *position* property can take following possible values:
  - o static.
  - o relative.
  - absolute.
  - o fixed.
  - o sticky.

# **Possible values of Position property:**

#### **Position: Static:**

- The default value of the CSS *position* property is *static*.
- HTML elements are positioned *static* by default.
- An element with *position: static;* is not positioned in any special way.
- It is not affected by top, right, left, bottom properties.



#### Position: Relative;

- The relative *position* property is used to set the element relative to its normal position.
- Example:

```
.green-box {
  background-color: green;
  position: relative;
}
```

- The code in the above example instructs the browser to place the .green-box element in relative position.
- But it does not specify where the .green-box element should be positioned. This can be done by accompanying the position declaration with any one of the following offset properties.
  - o top moves the element down from the top.
  - o bottom moves the element up from the bottom.
  - o left moves the element away from the left to right side.
  - o right moves the element away from the right to left side.
- The values of the offset properties can be in pixels, ems, percentages,...
- Example:

```
.green-box {
  background-color: green;
  position: relative;
  top: 50px;
  left: 120px;
}
```

Before and after applying relative position and offset values:

# Blue box Green box Green box

• Offsetting the relative property will not affect the positioning of other elements.



#### **Position: Absolute:**

- When an element's **position** is set to absolute, all other elements on the page will ignore the element and act like it is not present on the page.
- The element will be positioned relative to its closest positioned parent element, while offset properties can be used to determine the final position from there.
- Example:

```
header {
  background-color: #466995;
  border-bottom: 1px solid #466995;
  position: absolute;
  width: 100%;
}
```

#### Position: Fixed;

- When the element *position* is set to absolute, the element will scroll when the user scrolls the document.
- We can fix an element to a specific position on the page (regardless of user scrolling) by setting its position to fixed, and accompanying it with the familiar offset properties top, bottom, left, and right.
- Example:

```
header {
  background-color: #466995;
  border-bottom: 1px solid #466995;
  position: fixed;
  width: 100%;
}
```

#### Position: Sticky;

- The sticky value is another *position* value that keeps an element in the document flow as the user scrolls, but *sticks* to a specified position as the page is scrolled further.
- This is done by using the sticky value along with the familiar offset properties, as well as one new one.
- A sticky element toggles between relative and fixed, depending on the scroll position. It
  is positioned relative until a given offset position is met in the viewport then it "sticks" in
  place (like position:fixed).



## Z-index:

- When elements on a web page have combinations of different positions, their contents can overlap, making the content difficult to read.
- Example:



# **index Property**

nage has a z-index of -1, it will be placed behind the heading.

- The z-index property specifies the stack order of an element. z-index only works on positioned elements.
- The z-index property accepts integer values. Depending on their values, the integers instruct the browser on the order in which elements should be layered on the web page.

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