Full Stack Web Development Program

Day 9 - Layouts in CSS

Titles

- CSS Positioning

- Z-Index

- Layouts in CSS – Flexbox versus Grid System

- Font Styling

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Learning Objectives

By the end of this module, you will be able to:

- Position elements on a page using CSS Positioning

- Control the stacking order of elements using Z-Index

- Good understanding of the two most popular layout systems in CSS

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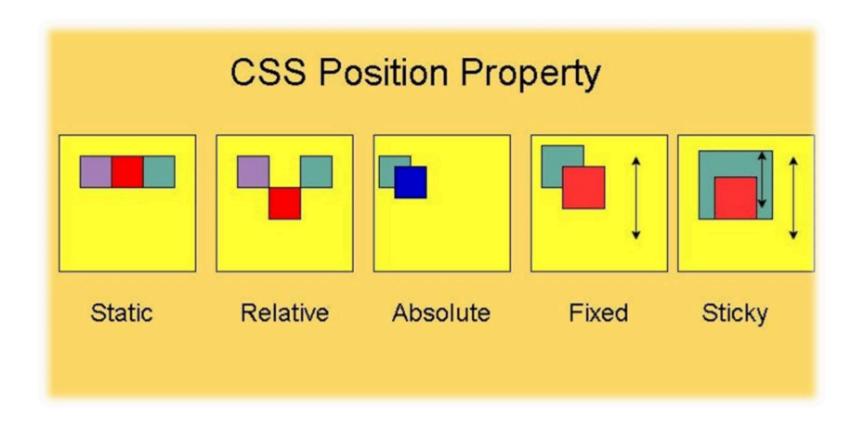# Harnessing the Power of Position Property

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Position Property in CSS

The Position property allows you to control the positioning of elements within a layout, including static, relative, absolute, and fixed values, and where each value is applicable.

- The elements can be positioned to the required location using the left, right, top, and bottom properties.

- An element with position absolute is positioned relative to the nearest positioned ancestor (instead of positioned relative to the viewport, like fixed).

CSS Position Property

| Static | Relative | Absolute | Fixed | Sticky |

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Position Property Values

Value	Description
static	The element is positioned according to the flow of the page. These elements cannot be positioned using the left, right, top, and bottom properties.
relative	The element's position remains in the flow of the document, similar to static but the left, right, top, and bottom properties can be applied to position the element.
fixed	The element is fixed (locked) to a certain location and does not move even when the page is scrolled. Left, right, top, and bottom properties can be applied.
absolute	The element will be removed from the flow of the document and other properties like left, right top, and bottom will be used to position the element.
sticky	The element is positioned based on the user's scroll position. It toggles between relative and fixed methods depending on the scroll position.

Activate Windows
Go to Settings to activate Windows.

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Example – Static Position Property

Example:

```html
<!DOCTYPE html>
<html>
<head>
<style>
div.static {
  position: static;
  border: 3px solid #73AD21;
}
</style>
</head>
<body>
<h2>edureka! position: static;</h2>
<p>An element with position: static; is not positioned in any special
way; it is always positioned according to the normal flow of the page:
</p>
<div class="static">
This div element has position: static;
</div>
</body>
</html>
```

Output:

edureka! position: static;

An element with position: static; is not positioned in any special way; it is always positioned according to the normal flow of the page:

This div element has position: static;

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Example – Relative Position Property

Example:

```html
<!DOCTYPE html>
<html>
<head>
<style>
div.relative {
    position: relative;
    left: 30px;
    border: 3px solid #73AD21;
}
</style>
</head>
<body>
<h2>edureka! position: relative;</h2>
<p>An element with position: relative; is positioned relative to its
normal position:</p>
<div class="relative">
This div element has position: relative;
</div>
</body>
</html>
```

Output:

edureka! position: relative;

An element with position: relative; is positioned relative to its normal position:

This div element has position: relative;

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Example – Absolute Position Property

Example:

```html
<!DOCTYPE html>
<html>
<head>
<style>
div.relative {
  position: relative;
  width: 400px;
  height: 200px;
  border: 3px solid #73AD21;
}
div.absolute {
  position: absolute;
  top: 80px;
  right: 0;
  width: 200px;
  height: 100px;
  border: 3px solid #73AD21;
}
</style>
</head>
<body>
<h2>edureka! position: absolute;</h2>
<p>An element with position: absolute; is positioned relative to the nearest positioned ancestor
(instead of positioned relative to the viewport, like fixed):</p>
<div class="relative">This div element has position: relative;
  <div class="absolute">This div element has position: absolute;</div>
</div>
</body>
</html>
```

Output:

edureka! position: absolute;

An element with position: absolute; is positioned relative to the nearest positioned ancestor (instead of positioned relative to the viewport, like fixed):

This div element has position: relative;

This div element has position: absolute;

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