**1 Positioning**

The position property defines how an element is positioned in a document. It works with top, right, bottom, and left for precise placement.

**Position Values:**

• Static (Default)

• Follows normal document flow; here, positioning properties (top, left) do not apply.

• Relative

• Positioned relative to its normal position (without affecting other elements).

• Absolute

• Positioned relative to its nearest positioned ancestor (or <body>).

• Removed from normal flow.

• Fixed

• Positioned relative to the viewport (stays in place on scroll).

• Sticky

• Hybrid of relative and fixed; sticks when scrolling reaches a threshold.

*Example:*

.element {

  position: absolute;

  top: 20px;

  left: 30px;

}

**HTML**

<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <title>Profile Card with Positioning</title>

  <link rel="stylesheet" href="style.css">

</head>

<body>

  <div class="card">

    <div class="badge">Top Student</div>

    <img src="https://images.pexels.com/photos/14996832/pexels-photo-14996832/free-photo-of-smiling-woman-in-white-suit.jpeg?auto=compress&cs=tinysrgb&w=600&lazy=load" alt="Profile Image" class="profile-img">

    <h2>Jane Doe</h2>

    <h4>Frontend Developer</h4>

    <p>Passionate about building responsive websites and learning new technologies!</p>

  </div>

<button>Contact</button>

</body>

</html>

**CSS**

body {

  background-color: #f0f0f0;

  font-family: Arial, sans-serif;

  text-align: center;

  margin-top: 150px;

}

/\* Card Container \*/

.card {

  position: relative;   /\* important! \*/

  background: white;

  width: 300px;

  margin: 0 auto;

  padding: 60px 20px 20px 20px;

  border-radius: 10px;

  box-shadow: 0 4px 8px rgba(0,0,0,0.1);

}

/\* Profile Image \*/

.profile-img {

  position: absolute;

  top: -50px;

  left: 50%;

  transform: translateX(-50%);

  width: 100px;

  height: 100px;

  border: 5px solid white;

  border-radius: 50%;

  background-color: white;

}

/\* Badge \*/

.badge {

  position: absolute;

  top: 10px;

  right: 10px;

  background-color: crimson;

  color: white;

  padding: 5px 10px;

  border-radius: 20px;

  font-size: 12px;

}

/\* Texts \*/

.card h2 {

  margin: 10px 0 5px;

}

.card h4 {

  margin: 5px 0;

  color: gray;

}

.card p {

  font-size: 14px;

  color: #555;

}

**HTML**

<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <title>Sticky Navbar and Fixed Message</title>

  <link rel="stylesheet" href="style.css">

</head>

<body>

  <!-- Navbar -->

  <nav class="navbar">

    <a href="#">Home</a>

    <a href="#">About</a>

    <a href="#">Services</a>

    <a href="#">Contact</a>

  </nav>

  <!-- Main Content -->

  <div class="content">

    <h1>Welcome to Our Page</h1>

    <p>Scroll down to see how the navbar sticks at the top and the message box stays fixed!</p>

    <p>Lorem ipsum dolor sit amet consectetur, adipisicing elit. Cum tempore repellat voluptates officiis repellendus inventore fugiat voluptas, impedit, rerum nemo amet similique earum eveniet. Laborum ullam alias tempora laudantium modi.</p>

    <p>Lorem ipsum dolor sit amet consectetur, adipisicing elit. Cum tempore repellat voluptates officiis repellendus inventore fugiat voluptas, impedit, rerum nemo amet similique earum eveniet. Laborum ullam alias tempora laudantium modi.</p>

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  </div>

  <!-- Fixed Message Box -->

  <div class="message-box">

    💬 Chat with us!

  </div>

</body>

</html>

**CSS**

body {

  margin: 0;

  font-family: Arial, sans-serif;

}

/\* Navbar Styling \*/

.navbar {

  position: sticky;

  top: 0;

  background-color: navy;

  padding: 15px;

  display: flex;

  justify-content: center;

  gap: 30px;

  color: white;

  z-index: 1000;

}

.navbar a {

  color: white;

  text-decoration: none;

  font-weight: bold;

}

.navbar a:hover {

  text-decoration: underline;

}

/\* Main Content Styling \*/

.content {

  padding: 20px;

  line-height: 1.6;

  background-color: #f5f5f5;

  min-height: 200vh; /\* Make the page tall so you can scroll \*/

}

/\* Fixed Message Box Styling \*/

.message-box {

  position: fixed;

  bottom: 20px;

  right: 20px;

  background-color: teal;

  color: white;

  padding: 15px 20px;

  border-radius: 10px;

  box-shadow: 0 4px 8px rgba(0,0,0,0.2);

  cursor: pointer;

}