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<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>CSS Position Demo</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 0;
      padding: 0;
      line-height: 1.6;
    }
    header {
      background: #4CAF50;
      color: white;
      padding: 10px;
      position: fixed;
      top: 0;
      left: 0;
      width: 100%;
      z-index: 1000;
    }
    main {
      padding-top: 60px; /* Add padding to account for the fixed header */
    }
    .static-box {
      background: #f4f4f4;
      padding: 20px;
      margin: 20px 0;
      border: 1px solid #ddd;
    }
    .relative-box {
      position: relative;
      background: #e1f7d5;
      padding: 20px;
      margin: 20px 0;
    }
    .relative-box .absolute-child {
      position: absolute;
      top: 10px;
      left: 10px;
      background: #fce38a;
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padding: 10px;
border: 1px solid #ddd;
}
.absolute-box {
position: absolute;
top: 200px;
left: 50px;
background: #ff9a9e;
padding: 20px;
border: 1px solid #ddd;
}
.sticky-container {
height: 300px;
overflow-y: scroll;
border: 1px solid #ddd;
margin: 20px 0;
}
.sticky-box {
position: sticky;
top: 0;
background: #84fab0;
padding: 10px;
border-bottom: 1px solid #ddd;
}
footer {
background: #222;
color: white;
padding: 10px;
text-align: center;
}
.scroll-spacer {
height: 800px;
}
</style>
</head>
<body>
<header>
Fixed Header (Always visible on top)
</header>

<main>
<section class="static-box">
<h2>Static Position</h2>
<p>This box is positioned normally as part of the document flow.</p>
</section>

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<section class="relative-box">
  <h2>Relative Position</h2>
  <p>This box is positioned relative to its normal position.</p>
  <div class="absolute-child">
    Absolute Position (relative to this parent)
  </div>
</section>

<div class="absolute-box">
  <h2>Absolute Position</h2>
  <p>This box is positioned relative to the nearest positioned ancestor
or the viewport.</p>
</div>

<section class="sticky-container">
  <div class="sticky-box">
    Sticky Position (Sticks to the top when scrolling inside this
container)
  </div>
  <p>Scroll inside this container to see the sticky behavior.</p>
  <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit.
Pellentesque vel orci id lorem aliquet gravida.</p>
  <p>Proin vel magna ut est gravida convallis. Morbi dictum eros a
mauris posuere, ut sagittis risus aliquet.</p>
  <p>Phasellus suscipit neque at bibendum tempor. Ut mollis eros id eros
facilisis lacinia.</p>
</section>

<div class="scroll-spacer">
  <p>Scroll down to see how fixed and absolute positions behave as you
move through the document.</p>
</div>
</main>

<footer>
  Footer – Positioned at the bottom
</footer>
</body>
</html>

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Features in the HTML File

1. **Fixed Header:** The header stays on top of the page as you scroll.
2. **Static Box:** Demonstrates the default `static` positioning.

3. **Relative Box:** Shows how a `relative` parent can have an `absolute` child positioned relative to it.
4. **Absolute Box:** Positioned independently, outside the normal flow.
5. **Sticky Container:** A sticky box that toggles between `relative` and `fixed` within its container.
6. **Scroll Spacer:** Adds enough height to the page for scrolling to observe how different positions behave.