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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>@supports Example</title>
  <style>
    @supports (display: flex) {
      /* Flexbox is available, so use it */
      .my-container {
        display: flex;
        background-color: lightblue;
      }
    }
  </style>
</head>
<body>
  <div class="my-container">
    <div style="flex: 1;">Flex Item 1</div>
    <div style="flex: 2;">Flex Item 2</div>
    <div style="flex: 1;">Flex Item 3</div>
  </div>
</body>
</html>

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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>@supports Feature Detection</title>
  <style>
    /* Detects if the browser supports 3D transforms, perspective, and
transform-style */
    @supports (transform: translateZ(1px)) and (transform-style: preserve-3d)
and (perspective: 1px) {
      /* Apply styles for browsers that support 3D transformations */
      /* You can do some fancy 3D stuff here */
      .my-container {
        /* Example styles for 3D support */
        background-color: #66cc66;
      }
    }

    /* Detects if the browser supports either flexbox or table-cell display */
    @supports (display: flex) or (display: table-cell) {
      /* Apply styles if the browser supports either flexbox or table-cell

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display */
/* This will be used if the browser supports flexbox or display:
table-cell */
    .my-container {
        /* Example styles for flex or table-cell support */
        background-color: #ffcc66;
    }
}

/* Detects if the browser does not support the specific -webkit-transform
property */
@supports not (-webkit-transform: translate(0, 0, 0)) {
    /* Apply styles if the browser does not support -webkit-transform */
    /* This will *not* be used if the browser supports -webkit-transform:
translate(...) */
    .my-container {
        /* Example styles for lack of -webkit-transform support */
        background-color: #ff6666;
    }
}

/* Grouping logical expressions with parentheses for complex feature
detection */
@supports (
    (display: block) and (zoom: 1)
) or (
    (display: flex) and (not (display: table-cell))
) or (
    (transform: translateX(1px))
) {
    /* Apply styles based on complex feature detection */
    /* You can include various conditions using logical operators */
    .my-container {
        /* Example styles for complex feature detection */
        background-color: #6666ff;
    }
}

/* Basic styling for demonstration */
.my-container {
    width: 200px;
    height: 200px;
    padding: 20px;
    text-align: center;
    margin: 20px;
    color: white;
}
</style>
</head>
<body>

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```
<div class="my-container">
  Feature Detection Example
</div>
</body>
</html>
```

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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 Notes for Professionals</title>
  <style>
    * {
      margin: 0;
    }
    html {
      padding: 20px;
      font: 12px/20px Arial, sans-serif;
    }
    div {
      opacity: 0.7;
      position: relative;
    }
    h1 {
      font: inherit;
      font-weight: bold;
    }
    #div1,
    #div2 {
      border: 1px dashed #696;
      padding: 10px;
      background-color: #cfc;
    }
    #div1 {
      z-index: 5;
      margin-bottom: 190px;
    }
    #div2 {
      z-index: 2;
    }
    #div3 {
      z-index: 4;
      opacity: 1;
      position: absolute;
      top: 40px;
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        left: 180px;
        width: 330px;
        border: 1px dashed #900;
        background-color: #fdd;
        padding: 40px 20px 20px;
    }
    #div4,
    #div5 {
        border: 1px dashed #996;
        background-color: #ffc;
    }
    #div4 {
        z-index: 6;
        margin-bottom: 15px;
        padding: 25px 10px 5px;
    }
    #div5 {
        z-index: 1;
        margin-top: 15px;
        padding: 5px 10px;
    }
    #div6 {
        z-index: 3;
        position: absolute;
        top: 20px;
        left: 180px;
        width: 150px;
        height: 125px;
        border: 1px dashed #009;
        padding-top: 125px;
        background-color: #ddf;
        text-align: center;
    }
</style>
</head>
<body>
    <div id="div1">
        <h1>Division Element #1</h1>
        <code>position: relative;<br/>
        z-index: 5;</code>
    </div>
    <div id="div2">
        <h1>Division Element #2</h1>
        <code>position: relative;<br/>
        z-index: 2;</code>
    </div>
    <div id="div3">
        <div id="div4">
            <h1>Division Element #4</h1>
            <code>position: relative;<br/>

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        z-index: 6;</code>
    </div>
    <h1>Division Element #3</h1>
    <code>position: absolute;<br/>
    z-index: 4;</code>
    <div id="div5">
        <h1>Division Element #5</h1>
        <code>position: relative;<br/>
        z-index: 1;</code>
    </div>
    <div id="div6">
        <h1>Division Element #6</h1>
        <code>position: absolute;<br/>
        z-index: 3;</code>
    </div>
</div>
</body>
</html>

```

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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 Styles</title>
    <style>
        img {
            float: left;
            width: 100px;
            margin: 0 10px;
        }

        .div1 {
            background: #f1f1f1;
            /* does not create block formatting context */
        }

        .div2 {
            background: #f1f1f1;
            overflow: hidden;
            /* creates block formatting context */
        }
    </style>
</head>
<body>
    

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</div>

<div class="div2">



<div class="div1">

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</div>

</body>

</html>