CSS Table:

We can apply style on HTML tables for better look and feel. There are some CSS properties that are widely used in designing table using CSS:

- o **Border:** Defines the border around the table and cells.
- o **Padding:** Defines the space between the cell content and the cell border.
- o Margin: Defines the space between the table and surrounding elements.
- O Background color: Sets the background color of the table.
- o **Text-align:** Sets the alignment of text within cells.
- o **Font size:** Sets the size of the text within cells.

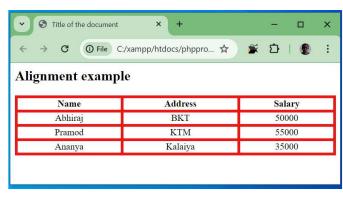
Here CSS properties that we use for applying a style to the <u>table</u>. The <u>background-color</u> and <u>color</u> properties set the background color and the color of the text, respectively. The <u>border-collapse</u> property makes the table borders collapse. The <u>text-align property</u> sets the text position. Also, we should use the <u>height</u>, <u>width</u> and <u>padding</u> properties for styling.

```
<html>
 <head>
  <title>Title of the document</title>
  <style>
   table {
    width: 100%;
    border-collapse: collapse;
   table,
   th,
   td {
    border: lpx solid black;
                                                               Output:
   thead {
    background-color: #1c87c9;
                                          Title of the document
    color: #ffffff;
                                                  🗭 🗗 | 🔞
   th {
    text-align: center;
                                              Name
                                                                     Address
                                                                                         Age
    height: 50px;
                                                            BKT
                                                                                    20
                                      Abhiraj
                                                            BKT
                                                                                    20
                                      Abhiraj
   tbody tr:nth-child(odd) {
                                      Abhiraj
                                                            BKT
                                                                                     20
    background: #ffffff;
                                      Abhiraj
                                                            BKT
                                                                                    20
   tbody tr:nth-child(even) {
    background: #f4f4f4;
  </style>
 </head>
 <body>
  <thead>
```

```
Name
  Address
  <th>Age</th>
 </thead>
 >
  Abhiraj
  BKT
   20 
 >
  Abhiraj
  BKT
  20
 Abhiraj
  BKT
  20
 >
  Abhiraj
  BKT
  20
 </body>
</html>
```

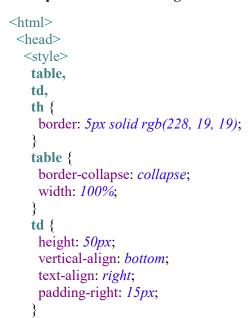
Example of and elements to the center side:

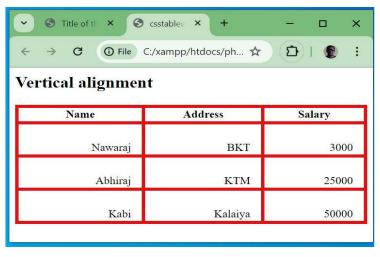
```
<html>
 <head>
  <title>Title of the document</title>
  <style>
   table,
   td,
   th {
     border: 5px solid rgb(241, 21, 21);
   table {
     border-collapse: collapse;
     width: 100%;
   }
   th,
   td {
    text-align: center;
   }
```



```
</style>
</head>
<body>
<h2>Alignment example</h2>
>
  Name
  Address
  Salary
  Abhiraj
  BKT
  50000
  >
  Pramod
  KTM
  55000
  >
  Ananya
  Kalaiya
  35000
  </body>
</html>
```

Example of the vertical alignment of elements to bottom:



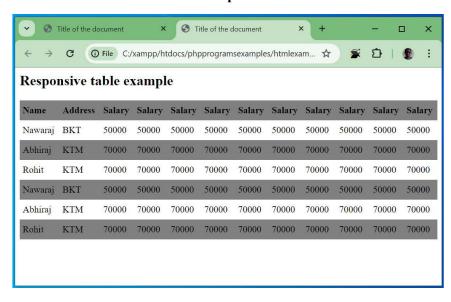


```
</style>
</head>
<body>
 <h2>Vertical alignment</h2>
 >
  Name
  Address
  Salary
 >
  Nawaraj
  BKT
  3000
 >
  Abhiraj
  KTM
  25000
 >
  Kabi
  Kalaiya
  50000
 </body>
</html>
```

Example of Responsive tables:

background-color: white;

tr:nth-child(even) {



```
}
tr:nth-child(odd) {
   background-color: gray;
</style>
</head>
<body>
   <h2>Responsive table example</h2>
   <div>
       >
              Name
              Address
              Salary
              Salary
              Salary
              Salary
              Salary
              Salary
              Salary
              Salary
              Salary
              Salary
           >
              Nawaraj
              BKT
              50000
              50000
              50000
              50000
              50000
              50000
              50000
              50000
              50000
              50000
           >
              Abhiraj
              KTM
              70000
              70000
              70000
              70000
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              70000
              70000
```

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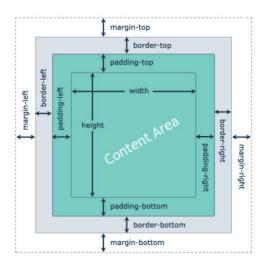
```
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>
  Rohit
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>
  Rohit
  KTM
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```

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```

CSS Box Model:

The CSS box model is the way in which CSS defines the layout of elements on a web page. It defines how the width, height, padding, borders, and margins of an element are calculated and rendered. Each HTML element is considered as a rectangular box, and the CSS box model describes how these boxes interact with each other and how they are sized and positioned on the page. This model is the foundation for creating the layout of a web page using CSS.



Explanation of the different parts:

Content: The content of the box, where text and images appear

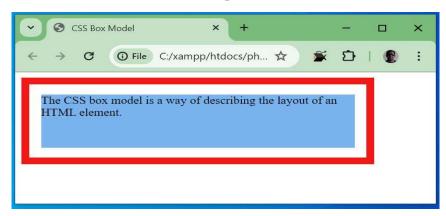
Padding: Clears an area around the content. The padding is transparent

Border: A border that goes around the padding and content

Margin: Clears an area outside the border. The margin is transparent

cssboxmodel.css

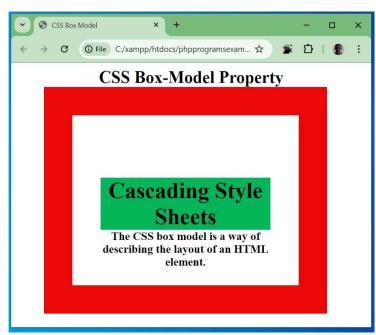
```
div {
  width: 400px;
  height: 80px;
  border: 10px solid rgb(241, 24, 24);
  padding: 15px;
  background-color: rgb(122, 179, 237);
  /* clips the background color to content only */
  background-clip: content-box;
}
```



```
<!DOCTYPE html>
<head>
<title>CSS Box Model</title>
<link rel="stylesheet" href="cssboxmodel1.css"/>
</head>
<body>
       <div class="main">CSS Box-Model Property</div>
       <div class="div1">
               <div class="div2">Cascading Style Sheets</div>
               <div class="div3"> The CSS box model is a way of describing the layout of an HTML
element. </div>
       </div>
</body>
</html>
 .main
         font-size:30px;
         font-weight:bold;
         Text-align:center;
 .div1
```

```
margin-left:50px;
         border:50px solid rgb(238, 7, 7);
         width:300px;
         height:200px;
         text-align:center;
         padding:50px;
.div2
         font-size:40px;
         font-weight:bold;
         color:black;
         margin-top:60px;
         background-color:rgb(6, 180, 90);
.div3
         font-size:20px;
         font-weight:bold;
         background-color:white;
}
```

Output:



CSS Padding:

The CSS padding properties are used to generate space around an elements content, inside of an defined border with CSS, we have full control over the padding. There are properties of setting the padding for each side and element (top, right, bottom and left)

Example:

```
div{
    padding-top: 10px;
    padding-bottom: 10px;
    padding-left: 10px;
    padding-right: 10px;
}
```

Padding property shorthand:

To shorten the code, it is possible to specify all the padding properties in one property.

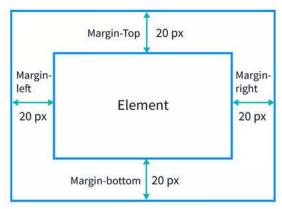
```
div {
  padding: 5px 60px 15px 30px;
}
```

CSS Margins:

The CSS margin properties are used to create space around elements outside of any defined borders. With CSS we have full control over the margins. There are properties of setting the margin for each side of an element (top, right, bottom and left)

Example:

```
div{
margin-top: 20px;
margin-bottom: 20px;
margin-left: 20px;
margin-right: 20px;
}
```



Margin shorthand property:

To shorten code, it is possible to specify all margin properties in one property using margin shorthand property.

Example:

```
div{
    margin: 10px 20px 10px 20px;
}
```

CSS Positioning:

The CSS position property determines how an element should be positioned in an HTML document. The top, right, bottom, and left properties set the final position of the elements. There are four different position values.

- 1. CSS Static Positioning
- 2. CSS Fixed Positioning
- 3. CSS Relative Positioning
- 4. CSS Absolute Positioning

CSS Static Position:

The position of the HTML elements is static by default. It sets the position according to the normal flow of the page. The top, bottom, left, and right properties do not affect it.

Example:

```
<html>
<head>
<title>Static Position</title>
<style>
```

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```
img {
          position: static;
    }
     </style>
</head>
<body>
     <h1>This is static position</h1>
          <img src="C:\xampp\htdocs\phpprogramsexamples\13913logo.jpg" alt="logo">
          This is static position
</body>
</html>
```

CSS Fixed Positioning:

The fixed positioning property positions the element relative to the screen's viewport and stays fixed on the screen when scrolling.

Example:

```
<html>
<head>

<title>Fixed Position</title>
<style>
h1{
    position: fixed;
    top: 10px;
    right: 20px;
}
</style>
</head>
<body>
<h1>This is Fixed position</h1>
</body>
</html>
```

CSS Relative Positioning:

```
<html>
<head>
<title>Relative Position</title>
<style>
.relative {
    position: relative;
    border: 5px solid #e80c0c;
    font-size: 35px;
    left: 100px;
    top: 50px
    }
    </style>
</head>
<body>
```

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```
<h1>Relative Position</h1>
<div class="relative">
This div element has relative position
</div>
</body>
</html>
```

CSS Absolute Positioning:

The absolute value positions the element absolutely relative to its container. With absolute positioning, you can place an element anywhere on a page.

```
<html>
<head>
  <title>Absoute Position</title>
  <style>
                                                             Output:
     div.relative{
     position: relative;

    Absoute Position

     border: 5px solid #5e5a5a;
                                      ← → C ① File C:/xampp/htdocs/phpprogramsexam... ☆
                                                                                🗭 🖸 | 🔞
     font-size: 35px;
     width: 500px;
                                      This is absolute Position
     height: 300px;
                                     This is relative position
   div.absolute{
     position: absolute;
                                                       This is absolute
     border: 5px solid #e80c0c;
                                                       position
     font-size: 35px;
     top:100px;
     right: 0px;
     width: 300px;
     height: 200px;
   </style>
</head>
<body>
  <h1>This is absolute Position</h1>
  <div class="relative">This is relative position
     <div class="absolute">This is absolute position</div>
  </div>
</body>
</html>
```

Box shadow property:

The **box-shadow property** is used to create a shadow effect around an HTML element. It is also specified similar to as text shadow. The CSS box-shadow property has six possible property values.

- o **h-offset:** Horizontal offset of the shadow.
- o **v-offset:** Vertical offset of the shadow.
- o **blur:** The blur radius, creating a blurred shadow.
- o **spread:** The spread radius, expanding or contracting the shadow.
- o **color:** The color of the shadow.

Example: Output:

```
<html>
                                                  Box Shadow
<head>
                                                        (i) File C:/xampp/htdocs/phpprogramsexam...
                                                                                            新 i l 🔞
  <title>Box Shadow</title>
   <style>
        body {
         background: #e0ffff;
         div{
        height: 150px;
         width: 150px;
         background: #fff;
         border-radius: 20px;
         margin: 20px;
         transition: all ease 0.2s;
        .box \{
         box-shadow: 0px 5px 10px 0px rgba(240, 3, 3, 0.5);
        .box:hover {
         box-shadow: 0px 10px 20px 2px rgba(77, 6, 201, 0.25);
        .box1 {
         box-shadow: inset 0px 5px 10px 0px rgba(5, 170, 126, 0.5);
        .box1:hover {
         box-shadow: inset 0px 10px 20px 2px rgba(25, 12, 12, 0.872);
   </style>
</head>
<body>
  <div class=box></div>
  <div class=box1></div>
</body>
</html>
```

```
<html>
<head>
<style>
body {
       margin: 30px;
       background-color: #E9E9E9;
}
div.polaroid {
       width: 284px;
       padding: 10px 10px 20px 10px;
       border: lpx solid #BFBFBF;
       background-color: white;
       box-shadow: 10px 10px 5px #aaaaaa;
                                                                        Output:
}
div.rotate right {
       float: left;
       transform: rotate(7deg);
}
                                               This is right side This is right side Thi
div.rotate left {
       float: left;
       transform: rotate(-8deg);
</style>
</head>
<body>
       <div class="polaroid rotate right">
               <img src="C:\xampp\htdocs\phpprogramsexamples\13913logo.jpg"</pre>
                      alt="Pulpit rock" width="284" height="213">
               This is right side This is right sideThis is
                      right side
       </div>
       <div class="polaroid rotate left">
               <img src="C:\xampp\htdocs\phpprogramsexamples\13913logo.jpg"</pre>
                      alt="Monterosso al Mare" width="284" height="213">
               This is left side This is
                      left side This is left side
       </div>
</body>
</html>
```

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