HTML - Table Styling

You can style HTML tables by using the CSS. **Table styling** helps you to customize the normal appearance of the elements like borders, cell padding, text alignment, background colors, and more to create a well-formatted table on a webpage.

The following are some of the table stylings in HTML:

- Collapsed Border Table
- Horizontal Zebra Striped Table
- Text Alignment in Table Cells
- Vertical Zebra Striped Table
- Table with Combined Vertical and Horizontal Zebra Stripes
- Table with Horizontal Dividers
- Hoverable Table Rows

Collapsed Border Table

You have the flexibility to manage the space between table borders by manipulating the **'border-collapse'** property. This property determines how adjacent table cell borders interact, and adjusting it allows you to control the spacing or gap between the borders within your table.

By setting **'border-collapse'** to **"collapse"**, borders will merge, eliminating any spacing, while "separate" allows you to control the spacing using the **'border-spacing'** property, providing a more customized appearance to your table layout.

Example

This is an example of a collapsed border table, where the table borders are merged into a single border using the border-collapse: collapse; property.

```
</>                                          Open Compiler

<!DOCTYPE html>
<html>
<head>
    <style>
        #table1 {
            border-collapse: separate;
        }
        #table2 {
            border-collapse: collapse;
        }
```

```
    </style>
  </head>
  <body>
    <table id="table1" border="1">
        <tr>
            <th>Name</th>
            <th>Salary</th>
        </tr>
        <tr>
            <td>Ramesh Raman</td>
            <td>5000</td>
        </tr>
        <tr>
            <td>Shabbir Hussein</td>
            <td>7000</td>
        </tr>
    </table>
    <br />
    <table id="table2" border="1">
        <tr>
            <th>Name</th>
            <th>Salary</th>
        </tr>
        <tr>
            <td>Ramesh Raman</td>
            <td>5000</td>
        </tr>
        <tr>
            <td>Shabbir Hussein</td>
            <td>7000</td>
        </tr>
    </table>
  </body>
</html>
```

Horizontal Zebra Striped Table

The Zebra Stripes - Horizontal technique involves styling table rows with alternating colors, enhancing the visual appeal and readability of the table.

The **:nth-child(even)** selector targets every second row, and a background color is applied to create a striped effect.

Example

This is an example of a horizontal zebra-striped table, here alternating rows are styled with different background colors:

```
</>                                                          Open Compiler

<!DOCTYPE html>
<html>
<head>
    <style>
        tr:nth-child(even) {
            background-color: #8a83de;
        }
    </style>
</head>
<body>
    <table border="1">
        <table border="1">
            <tr>
                <th>Name</th>
                <th>Salary</th>
            </tr>
            <tr>
                <td>Ramesh Raman</td>
                <td>5000</td>
            </tr>
            <tr>
                <td>Shabbir Hussein</td>
                <td>7000</td>
            </tr>
        </table>
    </table>
</body>
</html>
```

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Text Alignment in Table Cells

You can align the text within your table cells horizontally and vertically using the text-align and vertical-align properties.

Example

This is an example of text alignment in table cells:

```html
<!DOCTYPE html>
<html>
<head>
    <style>
        td,
        th {
            text-align: center;
            vertical-align: middle;
        }
    </style>
</head>
<body>
    <table border="1">
        <tr>
            <th>Name</th>
            <th>Salary</th>
        </tr>
        <tr>
            <td>Ramesh Raman</td>
            <td>5000</td>
        </tr>
        <tr>
            <td>Shabbir Hussein</td>
            <td>7000</td>
        </tr>
    </table>
</body>
</html>
```

Vertical Zebra Striped Table

The Zebra Stripes - Vertical technique enhances table readability by applying alternating styles to every other column. This is achieved using the **:nth-child(even)** selector for both table data (td) and table header (th) elements.

Example

This is an example of a vertical zebra-striped table, where alternating columns are styled with different background colors:

```
<!DOCTYPE html>
<html>
<head>
    <style>
        td:nth-child(even),
        th:nth-child(even) {
            background-color: #D6EEEE;
        }
    </style>
</head>
<body>
    <table border="1">
        <tr>
            <th>Name</th>
            <th>Salary</th>
        </tr>
        <tr>
            <td>Ramesh Raman</td>
            <td>5000</td>
        </tr>
        <tr>
            <td>Shabbir Hussein</td>
            <td>7000</td>
        </tr>
    </table>
</body>
</html>
```

Table with Combined Vertical & Horizontal Zebra Stripes

You can achieve a captivating visual effect by combining both horizontal and vertical zebra stripe patterns on your table. This involves applying alternating styles to both rows **(:nth-child(even))** and columns **(td:nth-child(even), th:nth-child(even))**.

To enhance this effect, consider adjusting the color transparency using the rgba() function, creating an engaging and aesthetically pleasing overlap of stripes for a unique and visually interesting outcome.

Example

This is an example of a table with combined vertical and horizontal zebra stripes, where both alternating rows and columns are styled with different background colors:

</>   Open Compiler

```
<!DOCTYPE html>
<html>
<head>
    <style>
        tr:nth-child(even) {
            background-color: rgba(150, 212, 212, 0.4);
        }
        th:nth-child(even),
        td:nth-child(even) {
            background-color: rgba(212, 150, 192, 0.4);
        }
    </style>
</head>
<body>
    <table border="1">
        <tr>
            <th>Name</th>
            <th>Salary</th>
        </tr>
        <tr>
            <td>Ramesh Raman</td>
            <td>5000</td>
        </tr>
        <tr>
            <td>Shabbir Hussein</td>
            <td>7000</td>
        </tr>
    </table>
</body>
</html>
```

Table with Horizontal Dividers

You can enhance the visual structure of your table by incorporating horizontal dividers. Achieve this effect by styling each **'<tr>'** element with a bottom border.

This CSS customization provides a clear separation between rows, contributing to improved table clarity and a more organized presentation of tabular data.

Example

This is an example of a table with horizontal dividers, where each row is separated by a distinct horizontal line:

</>   Open Compiler

```
<!DOCTYPE html>
<html>
<head>
    <style>
        table {
            border-collapse: collapse;
        }
        tr {
            border-bottom: 5px solid #ddd;
        }
        th,
        td {
            padding: 10px;
            /* Add padding for better visibility */
        }
    </style>
</head>
<body>
    <table border="1">
        <tr>
            <th>Name</th>
            <th>Salary</th>
        </tr>
        <tr>
            <td>Ramesh Raman</td>
            <td>5000</td>
        </tr>
        <tr>
            <td>Shabbir Hussein</td>
            <td>7000</td>
        </tr>
    </table>
</body>
</html>
```

The above HTML program defines a simple table with two rows and two columns. CSS styles are applied to create a visual separation between rows using a solid border at the bottom of each row. The border-collapse property ensures a cleaner layout, and padding is added for improved visibility of table cells.

Hoverable Table Rows

You can improve user interaction by employing the ':hover' selector, which highlights table rows when users hover over them. This enhances the visual feedback, making the table more interactive and user-friendly.

Example

This is an example of hoverable table rows, where the background color of a table row changes when the user hovers over it:

```
</>

<!DOCTYPE html>
<html>
<head>
    <style>
        tr:hover {
            background-color: #D6EEEE;
        }
    </style>
</head>
<body>
    <table border="1">
        <tr>
            <th>Name</th>
            <th>Salary</th>
        </tr>
        <tr>
            <td>Ramesh Raman</td>
            <td>5000</td>
        </tr>
        <tr>
            <td>Shabbir Hussein</td>
            <td>7000</td>
        </tr>
    </table>
</body>
</html>
```

The above HTML program creates a table with a border. The CSS style makes the rows change the background color to light blue when hovered over, enhancing user interaction.