Tables

All of you are familiar with tables. We see them in newspapers, TV news, magazines and you might have even worked with them using MS Office or Google Sheets.

In this chapter we will discuss about how to create tables in our HTML web page.

Tables, Rows and Columns

As you know every table has rows and columns. And each column has a column heading.

In HTML, we define a table using the `table` tag. It has an opening and closing tag.

Rows are created using `tr` tags and columns (table data) are created using `td` tag. Table headings are provided using `th`

Columns are created inside rows (Ie. `td` comes inside `td`)

Column headings are also created inside rows. (Ie. `th` comes inside `td`)

Table with Two Rows and One Column per Row

COPY

```html
<table>
    <tr>
        <td></td>
    </tr>
    <tr>
        <td></td>
    </tr>
</table>
```

Table with Two Rows and Two Columns per Row

COPY

```html
<table>
    <tr>
        <td></td>
        <td></td>
    </tr>
    <tr>
        <td></td>
        <td></td>
    </tr>
</table>
```

Table with Three Rows, Two columns per row and Table Heading

COPY

```html
<table>
    <tr>
        <th></th>
        <th></th>
    </tr>
    <tr>
        <td></td>
        <td></td>
    </tr>
    <tr>
        <td></td>
        <td></td>
    </tr>
</table>
```

Here's the full code of a sample table

COPY

```html
<!DOCTYPE html>
<html>
    <head>
        <title>Employee Details</title>
    </head>
    <body>
        <table>
            <tr>
                <th>Name</th>
                <th>Age</th>
            </tr>
            <tr>
                <td>Ramchandran</td>
                <td>34</td>
            </tr>
            <tr>
                <td>DamuKrishnan</td>
                <td>29</td>
            </tr>
        </table>
    </body>
</html>
```
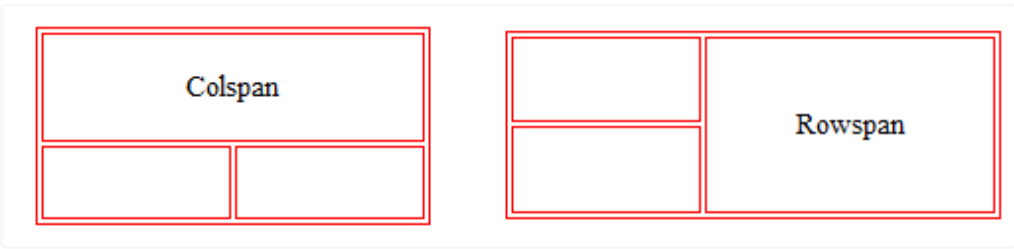
Colspan and Rowspan Attributes

You will use `<colspan>` attribute if you want to merge two or more columns into a single column.

Similar way you will use `<rowspan>` if you want to merge two or more rows.

Here's an example of the `colspan` and `rowspan` code.

COPY

```html
<!DOCTYPE html>
<html>
  <head>
      <title>HTML Table Colspan/Rowspan</title>
  </head>
  <body>
      <table border = "1">
        <tr>
            <th>Column 1</th>
            <th>Column 2</th>
            <th>Column 3</th>
        </tr>
        <tr>
            <td rowspan = "2">Row 1 Cell 1</td>
            <td>Row 1 Cell 2</td>
            <td>Row 1 Cell 3</td>
        </tr>
        <tr>
            <td>Row 2 Cell 2</td>
            <td>Row 2 Cell 3</td>
        </tr>
        <tr>
            <td colspan = "3">Row 3 Cell 1</td>
        </tr>
      </table>
  </body>
</html>
```
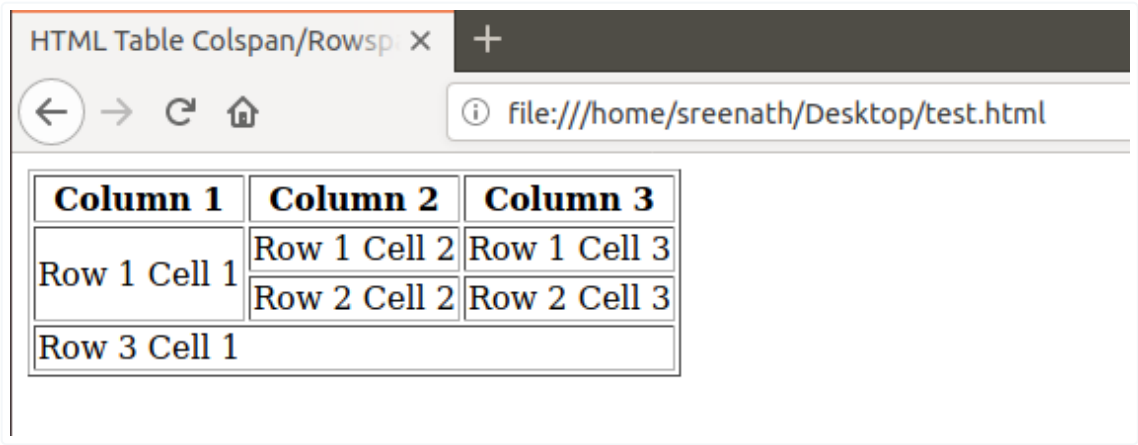
Output:

This image will give you a better understanding

Summary

- Use the HTML `<table>` element to define a table.
- Use the HTML `<tr>` element to define a table row.
- Use the HTML `<td>` element to define a table data.
- Use the HTML `<th>` element to define a table heading.
- Use the `colspan` attribute to make a cell span many columns.

COPY

```
<td colspan = "3">
```

- Use the `rowspan` attribute to make a cell span many rows.

COPY

```
<td rowspan = "2">
```

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