Cascading Style Sheets

The border-collapse Property

The border-collapse property allows you to define a way in which a border should be displayed around a table cell. To display the border of your table in different styles, you need to set the appropriate values of the border-collapse property.

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>collapse</td>
<td>Sets a common border to all the cells of a table</td>
</tr>
<tr>
<td>separate</td>
<td>Sets a separate border for each cell of a table</td>
</tr>
<tr>
<td>inherit</td>
<td>Inherits the value of the border-collapse property from the parent element</td>
</tr>
</tbody>
</table>

The following syntax shows an example of applying the border-collapse property in a table:

```
table {border-collapse: separate;}
```

In the preceding syntax, the value of the border-collapse property is set to separate. This allows you to set different borders for all the cells of a table.

Example:

```html
<!DOCTYPE html>
<html>
<head>
  <style>
    table, td, th { border: 1px solid black; border-collapse: 10px; }
    #table1 { border-collapse: separate; }
    #table2 { border-collapse: collapse; }
  </style>
</head>
<body>
<h2>border-collapse: separate (default):</h2>
<table id="table1">
  <tr>
    <th>Firstname</th> <th>Lastname</th>
  </tr>
  <tr><td>Peter</td><td>Griffin</td></tr>
  <tr><td>Lois</td><td>Griffin</td></tr>
</table>
<h2>border-collapse: collapse:</h2>
<table id="table2">
  <tr><td>Peter</td><td>Griffin</td></tr>
  <tr><td>Lois</td><td>Griffin</td></tr>
</table>
</body>
</html>
```
The border-spacing Property

The border-spacing property allows you to specify the amount of space between the borders of adjacent table cells. The amount of space between the borders of adjacent cells is also known as border space.

The values of the border-spacing property

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>length</td>
<td>Specifies the horizontal and vertical spacing between borders. If two length values are provided to this property, the first value sets the horizontal spacing and the second value sets the vertical spacing.</td>
</tr>
<tr>
<td>inherit</td>
<td>Specifies that the value of the border-spacing property should be inherited from the parent element.</td>
</tr>
</tbody>
</table>

The syntax of the border-spacing property is as follows:

```
border-spacing: 10px 50px;
```

In the preceding syntax, the border-spacing property takes two values, 10 pixels and 50 pixels. The first value specifies the horizontal spacing and the second value specifies the vertical spacing.

Example:

```html
<!DOCTYPE html><html>
<head><style>
table, td, th {border: 1px solid black;}
#Table1 {border-collapse: separate;
border-spacing: 15px;}
#Table2 {border-collapse: separate;
border-spacing: 15px 50px;}
</style></head>
<body>
<h2>border-spacing: 15px:</h2>
<p>When using "border-collapse: separate", the border-spacing property can be used to set the space between the cells:</p>
<table id="Table1">
  <tr>
    <th>Firstname</th><th>Lastname</th>
  </tr>
  <tr>
    <td>Peter</td><td>Griffin</td>
  </tr>
  <tr>
    <td>Lois</td><td>Griffin</td>
  </tr>
</table>

<h2>border-spacing: 15px 50px:</h2>
<p>Using two values (the first sets the horizontal spacing and the second sets the vertical spacing):</p>
<table id="Table2">
  <tr>
    <th>Firstname</th><th>Lastname</th>
  </tr>
  <tr>
    <td>Peter</td><td>Griffin</td>
  </tr>
</table>
</body></html>
```
The empty-cells Property

A cell that does not contain any content is known as an empty cell. The empty-cells property is used to define the border of an empty cell.

**The values of the empty-cells property**

<table>
<thead>
<tr>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>show</td>
<td>Displays a border around an empty cell</td>
</tr>
<tr>
<td>hide</td>
<td>Hides the border of an empty cell</td>
</tr>
<tr>
<td>inherit</td>
<td>Specifies that the value of the empty-cells property of an element should inherit the value of same property from its parent element</td>
</tr>
</tbody>
</table>

The Syntax of the empty-cells property is as follows:

```html
table { empty-cells : show; }
```

In the preceding syntax, the value of the empty-cells property is set to show. This indicates that the border is displayed around the empty cells.

**Example:**

```html
<!DOCTYPE html>
<html>
<head>
<style>
  table.ex1 { empty-cells: hide; }
  table.ex2 { empty-cells: show; }
</style>

<body>
<h1>The empty-cells Property</h1>

<h2>empty-cells: hide:</h2>
<table class="ex1">
  <tr><td>Peter</td><td>Griffin</td></tr>
  <tr><td>Louis</td><td>Lisa</td></tr>
</table>

<h2>empty-cells: show (default):</h2>
<table class="ex2"
  border="1">
  <tr><td>Peter</td><td>Griffin</td></tr>
  <tr><td>Louis</td><td>Lisa</td></tr>
</table>

</body>
</html>
```

**Exercise:**

1. What is border-collapse Property?
2. What is border-spacing Property?
3. What is empty-cells Property?