

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.

The values of the border-collapse property

Value	Description
collapse	Sets a common border to all the cells of a table
separate	Sets a separate border for each cell of a table
inherit	Inherits the value of the border-collapse property from the parent element

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:

```
<!DOCTYPE html><html><head><style>
table, td, th { border: 1px solid black;
border-spacing: 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><th>Firstname</th><th>Lastname</th></tr>
  <tr><td>Peter</td><td>Griffin</td></tr>
  <tr><td>Lois</td><td>Griffin</td></tr>
</table>
</body></html>
```

border-collapse: separate (default):

Firstname	Lastname
Peter	Griffin
Lois	Griffin

border-collapse: collapse:

Firstname	Lastname
Peter	Griffin
Lois	Griffin

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

Value	Description
length	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.
inherit	Specifies that the value of the border-spacing property should be inherited from the parent element.

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:

```
<!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>
```

border-spacing: 15px:

When using "border-collapse: separate", the border-spacing property can be used to set the space between the cells:

Firstname	Lastname
Peter	Griffin
Lois	Griffin

border-spacing: 15px 50px:

Using two values (the first sets the horizontal spacing and the second sets the vertical spacing):

Firstname	Lastname
Peter	Griffin

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

Value	Description
show	Displays a border around an empty cell
hide	Hides the border of an empty cell
inherit	Specifies that the value of the empty-cells property of an element should inherit the value of same property from its parent element

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

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:

```
<!DOCTYPE html><html><head><style>
table.ex1 {empty-cells: hide;}
table.ex2 {empty-cells: show;}
</style></head>
<body><h1>The empty-cells Property</h1>
<h2>empty-cells: hide:</h2>
<table class="ex1" border="1">
  <tr><td>Peter</td><td>Griffin</td></tr>
  <tr><td>Lois</td><td></td></tr>
</table>
<h2>empty-cells: show (default):</h2>
<table class="ex2" border="1">
  <tr><td>Peter</td><td>Griffin</td></tr>
  <tr><td>Lois</td><td></td></tr>
</table>
</body></html>
```

The empty-cells Property

empty-cells: hide:

Peter	Griffin
Lois	

empty-cells: show (default):

Peter	Griffin
Lois	

Exercise:

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