List Properties

Property Description

- list-style-image → Specifies an image as the list-item marker
- list-style-position → Specifies if the list-item markers should appear *inside* or *outside* the content flow
- list-style-type → Specifies the type of list-item marker
- list-style → Sets all the properties for a list in one declaration

list-style: list-style-type | list-style-position | list-style-image

```
<html> <head>
<style type="text/css">
ul.a {list-style-type:circle;}
ul.b {list-style-type:disc;}
ul.c {list-style-type:square;}
ol.f {list-style-type:decimal;}
ol.q {list-style-type:decimal-leading-
  zero;}
ol.n {list-style-type:lower-alpha;}
ol.q {list-style-type:lower-roman;}
ol.r {list-style-type:upper-alpha;}
```

```
ol.t {list-style-type:upper-roman;}
ol.u {list-style-type:none;}
ol.v {list-style-image:
 url("sqpurple.gif");}
</style> </head>
<body>
class="a">
Circle type
Disc type
```

```
<0|c|ass="r">
<Ii>Square type</Ii>
                             Upper-alpha type
<0|c|ass="f">
                             </0|>
<Ii>Decimal type</Ii>
                             <0|c|ass="t">
<0| class="q">
                             Upper-roman type
<Ii>Decimal-leading-zero type</Ii>
                             </01>
                             <0| class="u">
</0|>
<0|c|ass="n">
                             None type
                             </0|>
<Ii>Lower-alpha type</Ii>
                             <0|C|ass="v">
<0| class="q">
                             Image type
<Ii>Lower-roman type</Ii>
                             </0|>
</0|>
                             </body> </html>
```

Syntax

- The syntax of pseudo-classes:
 - selector:pseudo-class {property: value}
- CSS classes can also be used with pseudo-classes:
 - selector.class:pseudo-class {property: value}

• Ex:

- a:link {color: #FF0000} /* unvisited link */
- a:visited {color: #00FF00} /* visited link */
- a:hover {color: #FF00FF} /* mouse over link */
- a:active {color: #0000FF} /* selected link */

Link Properties

- The four links states are:
 - 1. a:link a normal, unvisited link
 - 2. a:visited a link the user has visited
 - 3. a:hover a link when the user mouse over it
 - 4. a:active a link the moment it is clicked

```
a:link {color:#FF0000;} /* unvisited link */
a:visited {color:#00FF00;} /* visited link */
a:hover {color:#FF00FF;} /* mouse over link */
a:active {color:#0000FF;} /* selected link */
```

 When setting the style for several link states, there are some order rules:

```
a:hover MUST come after a:link and a:visited a:active MUST come after a:hover
```

Text Decoration

```
a:link {text-decoration:none;}
a:visited {text-decoration:none;}
a:hover {text-decoration:underline;}
a:active {text-decoration:underline;}
```

Background Color

The background-color property specifies the background color for links:

```
a:link {background-color:#B2FF99;}
```

```
<html> <head>
                                              a.five:visited {color:#0000ff;
<style type="text/css">
                                                 text-decoration:none;}
a.one:link {color:#ff0000;}
                                              a.five:hover{text-decoration:underline;}
a.one:visited {color:#0000ff;}
                                              a.six:link,a.six:visited
a.one:hover {color:#ffcc00;}
                                              { display:block;
a.two:link {color:#ff0000;}
                                              font-weight:bold;
a.two:visited {color:#0000ff;}
                                              color:#FFFFF;
a.two:hover {font-size:150%;}
                                              background-color:#98bf21;
a.three:link {color:#ff0000;}
                                              width:120px;
a.three:visited {color:#0000ff;}
                                              text-align:center;
a.three:hover {background:#66ff66;}
                                              padding:4px;
a.four:link {color:#ff0000;}
                                              text-decoration:none;}
a.four:visited {color:#0000ff;}
                                              a.six:hover,a.six:active
a.four:hover {font-family:monospace;}
                                              { background-color: #7A991A;
a.five:link { color:#ff0000;
                                              text-decoration:underline;}
   text-decoration:none;}
                                              </style> </head>
```

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```
<body>
```

- Mouse over the links to see them change layout.
- This link changes color
- This link changes font-size
- This link changes background-color
- This link changes font-family
- This link changes text-decoration
- This link changes Box Color
- </body></html>

width and height property

- The height and width
 - auto (this is default. Means that the browser calculates the height and width),
 - length values, like px, cm, etc., or in percent (%) of the containing block.

```
div {
    height: 100px;
    width: 500px;
    background-color: powderblue;
}
</style>
<body>
<h2>Set the height and width of an element</h2>
This div element has a height of 100px and a width of 500px:
<div></div>
</body>
</html>
```

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Table Properties

Table Borders

```
table, th, td
{
border: 1px solid red;
}
```

- Notice that the table in the example above has double borders. This is because both the table and the th/td elements have separate borders.
- To display a single border for the table, use the border-collapse property.

Collapse Borders

 The border-collapse property sets whether the table borders are collapse into a single border or separated or intial:

```
border-collapse: separate | collapse | initial
  table
  {
  border-collapse:collapse;
  }
  table, td, th
  {
   border:1px solid red;
```

Table Width and Height

 Width and height of a table is defined by the width and height properties.

```
table
{
 width:100%;
}
th
{
height:50px;
}
```

Table Text Alignment

- The text in a table is aligned with the text-align and vertical-align properties.
- The text-align property sets the horizontal alignment, like left, right, or center

```
td
{
text-align:right;
}
```

 The vertical-align property sets the vertical alignment, like top, bottom, or middle:

```
td
{
height:50px;
vertical-align:bottom;
}
```

Table Padding

 To control the space between the border and content in a table, use the padding property on td and th elements:

```
td
{
padding:15px;
}
```

Table Color

 The example below specifies the color of the borders, and the text and background color of th elements:

```
table, td, th
{
border:1px solid green;
}
th
{
background-color:green;
color:white;
}
```

```
Table border-spacing
  The distance between the borders of adjacent cells: border-spacing: length initial
  table.ex1 {
  border-collapse: separate;
  border-spacing: 10px;}
 table.ex2 {
  border-collapse: separate;
  border-spacing: 10px 50px;
Table caption-side
  The caption-side property specifies the placement of a table caption.
        caption-side: top | bottom | initial
  table, td, th
  border:1px solid green;
  background-color:green;
  color:white;
```

Table empy-cells

 Sets whether or not to display borders and background on empty cells in a table

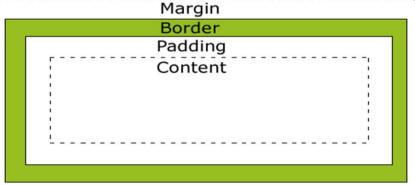
```
empty-cells: show | hide | initial
table {
  border-collapse: separate;
  empty-cells: hide;
}
```

```
<body>
<html> <head>
                             <style type="text/css">
                             table
                              Student Name
     border-collapse:collapse;
                              Seminar Topic
     width:50%; }
                             th
                             height:50px;
                              Madhusuthanan P
     vertical-align:center; }
                              Internet, Intranet and
td
                                  < tt < td >
     text-align:right;
                             table,th,td
                             Roopa S
     border:1px solid red;
                              Internet Protocols
                             </style> </head>
                              </body> </html>
```

BOX MODEL

In CSS, the term "box model" is used when talking about design and layout. It is essentially a box that wraps around HTML elements.

- Margin Clears an area around the border. The margin does not have a background color, it is completely transparent.
- Border A border that goes around the padding and content. The border is affected by the background color of the box.
- Padding Clears an area around the content. The padding is affected by the background color of the box.
- Content The content of the box, where text and images appear.



Width and Height of an Element

- When you set the width and height properties of an element with CSS, you just set the width and height of the **content area**.
- The total width of an element should be calculated like this:
 Total element width = width + left padding + right
 - padding + left border + right border + left margin + right margin
- The total height of an element should be calculated like this:
 Total element height = height + top padding + bottom padding + top border + bottom border + top margin + bottom margin
- Example: width:250px; padding:10px;

border:5px solid gray;

margin:10px;

Browsers Compatibility Issue

- The example above does not display properly in IE8 and earlier versions.
- IE8 and earlier versions includes padding and border in the width, if a **DOCTYPE** is **NOT** declared.
- To fix this problem, just add a DOCTYPE to the first line of HTML page:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML
1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-
transitional.dtd">
```

Border Width

- The border-width property specifies the width of the four borders. (in px, pt, cm, em, etc) or by using one of the three pre-defined values: thin, medium, or thick.
- The border-width property can have from one to four values (for the top border, right border, bottom border, and the left border).

border-style: solid; border-width: 5px;

The border property is a **shorthand property** for the following individual border properties:

- ·border-width
- border-style (required)
- border-color

Border Properties

It allows you to specify the style and color of an element's border.

Border Style

- The border-style property specifies what kind of border to display.
- dotted
- dashed
- > solid
- > double
- > groove
- > eidge
- > inset
- outset

Border Color

- The border-color property is used to set the color of the border. The color can be set by:
- You can also set the border color to "transparent".
- Note: The "border-color" property does not work if it is used alone. Use the "border-style" property to set the borders first.

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Border - Individual sides

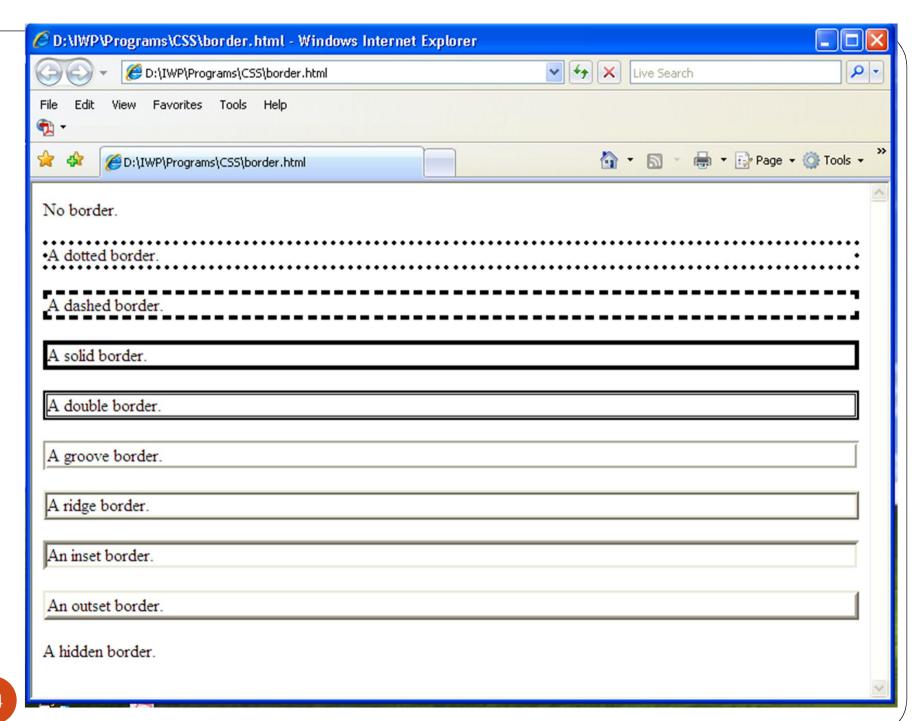
 In CSS it is possible to specify different borders for different sides.

```
p
{
border-top-style:dotted;
border-right-style:solid;
border-bottom-
style:dotted;
border-left-style:solid;
}
```

 The border-style property can have from one to four values.

Example:

- border-style:dotted solid double dashed;
 - top border is dotted
 - right border is solid
 - bottom border is double
 - left border is dashed
- > border-style:dotted solid
 double;
 - top border is dotted
 - right and left borders are solid
 - bottom border is double
- > border-style:dotted solid;
 - top and bottom borders are dotted
 - right and left borders are solid
- > border-style:dotted;
 - all four borders are dotted 30/2021



Border

- border-top
 - border-top-width,border-top-style,border-top-color
- border-right
 - border-right-width,border-right-style,border-right-color
- border-bottom
 - border-bottom-width,border-bottom-style,border-bottomcolor
- border-left
 - border-left-width,border-left-style,border-left-color

```
border-radius - > to add rounded borders to an element
p {
   border: 2px solid red;
   border-radius: 5px;
}
```

Margin

- The margin clears an area around an element (outside the border). The margin does not have a background color, and is completely transparent.
- The top, right, bottom, and left margin can be changed independently using separate properties. A shorthand margin property can also be used, to change all margins at once.

```
margin-top:100px;
margin-bottom:100px;
margin-right:50px;
margin-left:50px;
```

Margin - Shorthand property

Example:

- margin:25px 50px 75px 100px;
 - top margin is 25px
 - right margin is 50px
 - bottom margin is 75px
 - left margin is 100px
- margin:25px 50px 75px;
 - top margin is 25px
 - right and left margins are 50px
 - bottom margin is 75px
- margin:25px 50px;
 - top and bottom margins are 25px
 - right and left margins are 50px
- margin:25px;
 - all four margins are 25px

Padding

- The padding clears an area around the content (inside the border) of an element. The padding is affected by the background color of the element.
- The top, right, bottom, and left padding can be changed independently using separate properties. A shorthand padding property can also be used, to change all paddings at once.

```
padding-top:25px;
padding-bottom:25px;
padding-right:50px;
padding-left:50px;
```

Padding - Shorthand property

Example:

- padding:25px 50px 75px 100px;
 - top padding is 25px
 - right padding is 50px
 - bottom padding is 75px
 - left padding is 100px
- padding:25px 50px 75px;
 - top padding is 25px
 - right and left paddings are 50px
 - bottom padding is 75px
- padding:25px 50px;
 - top and bottom paddings are 25px
 - right and left paddings are 50px
- padding:25px;

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all four paddings are 25px