CSS Border Properties

The CSS `border` properties allow you to specify the style, width, and color of an element's border.

I have borders on all sides.

I have a red bottom border.

I have rounded borders.

I have a blue left border.

CSS Border Style

The `border-style` property specifies what kind of border to display.

The following values are allowed:

- `dotted` - Defines a dotted border
- `dashed` - Defines a dashed border
- `solid` - Defines a solid border
- `double` - Defines a double border
- `groove` - Defines a 3D grooved border. The effect depends on the border-color value

- `ridge` - Defines a 3D ridged border. The effect depends on the border-color value
- `inset` - Defines a 3D inset border. The effect depends on the border-color value
- `outset` - Defines a 3D outset border. The effect depends on the border-color value
- `none` - Defines no border
- `hidden` - Defines a hidden border

The `border-style` property can have from one to four values (for the top border, right border, bottom border, and the left border).
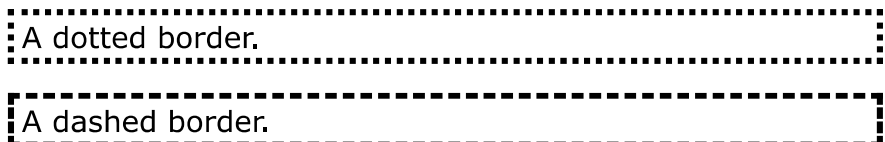
Example

Demonstration of the different border styles:

```css
p.dotted {border-style: dotted;}
p.dashed {border-style: dashed;}
p.solid {border-style: solid;}
p.double {border-style: double;}
p.groove {border-style: groove;}
p.ridge {border-style: ridge;}
p.inset {border-style: inset;}
p.outset {border-style: outset;}
p.none {border-style: none;}
p.hidden {border-style: hidden;}
p.mix {border-style: dotted dashed solid double;}
```

Result:

A dotted border.

A dashed border.

A solid border.

A double border.

A groove border. The effect depends on the border-color value.

A ridge border. The effect depends on the border-color value.

An inset border. The effect depends on the border-color value.

An outset border. The effect depends on the border-color value.

No border.

A hidden border.

A mixed border.

CSS Border Width

The `border-width` property specifies the width of the four borders.

The width can be set as a specific size (in px, pt, cm, em, etc) or by using one of the three pre-defined values: thin, medium, or thick:

Example

Demonstration of the different border widths:

```css
p.one {
  border-style: solid;
  border-width: 5px;
}

p.two {
  border-style: solid;
  border-width: medium;
}

p.three {
  border-style: dotted;
  border-width: 2px;
}

p.four {
  border-style: dotted;
  border-width: thick;
}
```

Result:

5px border-width

medium border-width

2px border-width

thick border-width

Specific Side Widths

The `border-width` property can have from one to four values (for the top border, right border, bottom border, and the left border):

Example

```css
p.one {
  border-style: solid;
  border-width: 5px 20px; /* 5px top and bottom, 20px
on the sides */
}

p.two {
  border-style: solid;
  border-width: 20px 5px; /* 20px top and bottom, 5px
on the sides */
}
```

```css
p.three {
  border-style: solid;
  border-width: 25px 10px 4px 35px; /* 25px top, 10px
right, 4px bottom and 35px left */
}
```

CSS Border Color

The `border-color` property is used to set the color of the four borders.

The color can be set by:

- name - specify a color name, like "red"
- HEX - specify a HEX value, like "#ff0000"
- RGB - specify a RGB value, like "rgb(255,0,0)"
- HSL - specify a HSL value, like "hsl(0, 100%, 50%)"
- transparent

Note: If `border-color` is not set, it inherits the color of the element.

Example

Demonstration of the different border colors:

```css
p.one {
  border-style: solid;
  border-color: red;
}

p.two {
  border-style: solid;
  border-color: green;
}

p.three {
  border-style: dotted;
  border-color: blue;
}
```

Result:

<div style="border: 3px solid red; padding: 1em;">
Red border
</div>

<div style="border: 3px solid green; padding: 1em;">
Green border
</div>

<div style="border: 3px dotted blue; padding: 1em;">
Blue border
</div>

Specific Side Colors

The `border-color` property can have from one to four values (for the top border, right border, bottom border, and the left border).

Example

```css
p.one {
  border-style: solid;
  border-color: red green blue yellow; /* red top,
green right, blue bottom and yellow left */
}
```

HEX Values

The color of the border can also be specified using a hexadecimal value (HEX):

Example

```css
p.one {
  border-style: solid;
  border-color: #ff0000; /* red */
}
```

RGB Values

Or by using RGB values:

Example

```css
p.one {
  border-style: solid;
  border-color: rgb(255, 0, 0); /* red */
}
```

HSL Values

You can also use HSL values:

Example

```css
p.one {
  border-style: solid;
  border-color: hsl(0, 100%, 50%); /* red */
}
```

CSS Border - Individual Sides

From the examples on the previous pages, you have seen that it is possible to specify a different border for each side.

In CSS, there are also properties for specifying each of the borders (top, right, bottom, and left):

Example

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

Result:

Different Border Styles

The example above gives the same result as this:

Example

```
p {
    border-style: dotted solid;
}
```

So, here is how it works:

If the `border-style` property has four values:

- **border-style: dotted solid double dashed;**
    - top border is dotted
    - right border is solid
    - bottom border is double
    - left border is dashed

If the `border-style` property has three values:

- **border-style: dotted solid double;**
    - top border is dotted
    - right and left borders are solid
    - bottom border is double

If the `border-style` property has two values:

- **border-style: dotted solid;**
    - top and bottom borders are dotted
    - right and left borders are solid

If the `border-style` property has one value:

- **border-style: dotted;**
    - all four borders are dotted

Example

```
/* Four values */
p {
  border-style: dotted solid double dashed;
}

/* Three values */
p {
  border-style: dotted solid double;
}
```

```css
/* Two values */
p {
  border-style: dotted solid;
}

/* One value */
p {
  border-style: dotted;
}
```

The `border-style` property is used in the example above. However, it also works with `border-width` and `border-color`.

CSS Border - Shorthand Property

Like you saw in the previous page, there are many properties to consider when dealing with borders.

To shorten the code, it is also possible to specify all the individual border properties in one property.

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

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

Example

```
p {
    border: 5px solid red;
}
```

Result:

Some text

You can also specify all the individual border properties for just one side:

Left Border

```
p {
    border-left: 6px solid red;
    background-color: lightgrey;
}
```

Result:

Some text

Bottom Border

```
p {
    border-bottom: 6px solid red;
    background-color: lightgrey;
}
```

Result:

Some text

CSS Border - Individual Sides

From the examples on the previous pages, you have seen that it is possible to specify a different border for each side.

In CSS, there are also properties for specifying each of the borders (top, right, bottom, and left):

Example

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

Result:

Different Border Styles

The example above gives the same result as this:

Example

```
p {
    border-style: dotted solid;
}
```

So, here is how it works:

If the `border-style` property has four values:

- **border-style: dotted solid double dashed;**
    - top border is dotted
    - right border is solid
    - bottom border is double
    - left border is dashed

If the `border-style` property has three values:

- **border-style: dotted solid double;**
    - top border is dotted
    - right and left borders are solid
    - bottom border is double

If the `border-style` property has two values:

- **border-style: dotted solid;**
    - top and bottom borders are dotted
    - right and left borders are solid

If the `border-style` property has one value:

- **border-style: dotted;**
    - all four borders are dotted

Example

```
/* Four values */
p {
  border-style: dotted solid double dashed;
}

/* Three values */
p {
  border-style: dotted solid double;
}
```

```css
/* Two values */
p {
  border-style: dotted solid;
}

/* One value */
p {
  border-style: dotted;
}
```

The `border-style` property is used in the example above. However, it also works with `border-width` and `border-color`.

CSS Rounded Borders

The `border-radius` property is used to add rounded borders to an element:

```
Normal border
```

```
Round border
```

```
Rounder border
```

```
Roundest border
```

Example

```css
p {
  border: 2px solid red;
  border-radius: 5px;
}
```

More Examples

All the top border properties in one declaration
This example demonstrates a shorthand property for setting all of the properties for the top border in one declaration.

Set the style of the bottom border
This example demonstrates how to set the style of the bottom border.

Set the width of the left border
This example demonstrates how to set the width of the left border.

Set the color of the four borders
This example demonstrates how to set the color of the four borders. It can have from one to four colors.

Set the color of the right border
This example demonstrates how to set the color of the right border.

All CSS Border Properties

Property	Description
border	Sets all the border properties in one declaration
border-bottom	Sets all the bottom border properties in one declaration
border-bottom-color	Sets the color of the bottom border

border-bottom-style	Sets the style of the bottom border
border-bottom-width	Sets the width of the bottom border
border-color	Sets the color of the four borders
border-left	Sets all the left border properties in one declaration
border-left-color	Sets the color of the left border
border-left-style	Sets the style of the left border
border-left-width	Sets the width of the left border
border-radius	Sets all the four border-*-radius properties for rounded corners
border-right	Sets all the right border properties in one declaration
border-right-color	Sets the color of the right border
border-right-style	Sets the style of the right border
border-right-width	Sets the width of the right border
border-style	Sets the style of the four borders

border-top	Sets all the top border properties in one declaration
border-top-color	Sets the color of the top border
border-top-style	Sets the style of the top border
border-top-width	Sets the width of the top border
border-width	Sets the width of the four borders