CSS Borders

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

1. 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
- `hidden` - Defines a hidden border

  `Eg:`

  `border-style`: `dotted`;

  `border-style`: `dashed`;

Border individual sides

- Border–left–style:solid;
- border–right–style:solid;
- border–top–style:solid;
- border–bottom–style:solid;

2.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:

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

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):

```css
border-style: solid;
border-width: 5px 20px; /* 5px top and bottom, 20px on the sides */
border-width: 20px 5px; /* 20px top and bottom, 5px on the sides */
border-width: 25px 10px 4px 35px; /* 25px top, 10px right, 4px bottom and 35px left */
```

3.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

```
  border-style: solid;
  border-color: red;
```

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).

```
  border-style: solid;
  border-color: red green blue yellow; /* red top, green right, blue bottom and yellow left */
```

4.Border - Individual Sides

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

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

5. Rounded Borders

The `border-radius` property is used to add rounded borders to an element: It defines the radius of the element's corners.

This property can have from one to four values. Here are the rules:

Four values - border-radius: 15px 50px 30px 5px;

(first value applies to top-left corner, second value applies to top-right corner, third value applies to bottom-right corner, and fourth value applies to bottom-left corner):

Three values - border-radius: 15px 50px 30px;

(first value applies to top-left corner, second value applies to top-right and bottom-left corners, and third value applies to bottom-right corner):

Two values - border-radius: 15px 50px;

(first value applies to top-left and bottom-right corners, and the second value applies to top-right and bottom-left corners):

One value - border-radius: 15px;

(the value applies to all four corners, which are rounded equally:

Individual corners

top-left corner border radius

Add rounded borders to the top-left corner of two <div> elements:

The border-top-left-radius property defines the radius of the top-left corner.

- border-top-left-radius: 25px;
- border-top-left-radius: 50px 20px;

top-right corner border radius

Add rounded borders to the top-right corner of two <div> elements:

The border-top-right-radius property defines the radius of the top-right corner.

- border-top-right-radius: 25px;
- border-top-right-radius: 50px 20px;

bottom-right corner border radius

Add rounded borders to the bottom-right corner of two <div> elements:

The border-bottom-right-radius property defines the radius of the bottom-right corner.

- border-bottom-right-radius: 25px;
- border-bottom-right-radius: 50px 20px;

bottom-left corner border radius

Add rounded borders to the bottom-left corner of two <div> elements:

The `border-bottom-left-radius` property defines the radius of the bottom-left corner.

- `border-bottom-left-radius`: `25px`;
- border-bottom-left-radius: 50px 20px;