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The CSS Box Model

- All HTML elements can be considered as boxes.
- Is essentially a box that wraps around HTML elements, and it consists of: margins, borders, padding, and the actual content.
- Allows us to place a border around elements and space elements in relation to other elements.

The CSS Box Model (Cont.)



CSS Border

border-color

- Sets the color of the four borders.
- The color can be set by:
 - name - specify a color name, like **red**
 - RGB - specify a RGB value, like **rgb(255, 0, 0)**
 - Hex - specify a hex value, like **#ff0000**

border-style

- Sets the style of the four borders.

dotted: Defines a dotted border

dashed: Defines a dashed border

solid: Defines a solid border

double: Defines two borders. The width of the two borders are the same as the border-width value

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

border-style (Cont.)

- Can have from one to four values.
 - **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

border-width

- Sets the width of the four borders.

```
1  p.one {  
2      border-style:solid;  
3      border-width:5px;  
4  }  
5  p.two {  
6      border-style:solid;  
7      border-width:medium;  
8  }
```


border-position-color

- Sets the color of the border.
 - `border-bottom-color` | `border-left-color` | `border-right-color` | `border-top-color`
- Property value
 - `color` | `transparent`

border-position-style

- Sets the style of the border.

- `border-bottom-style` | `border-left-style` |
`border-right-style` | `border-top-style`

- Property value

- `none` | `hidden` | `dotted` | `dashed` | `solid` | `double` | `groove` |
`ridge` | `inset` | `outset`

border-position-width

- Sets the width of the border

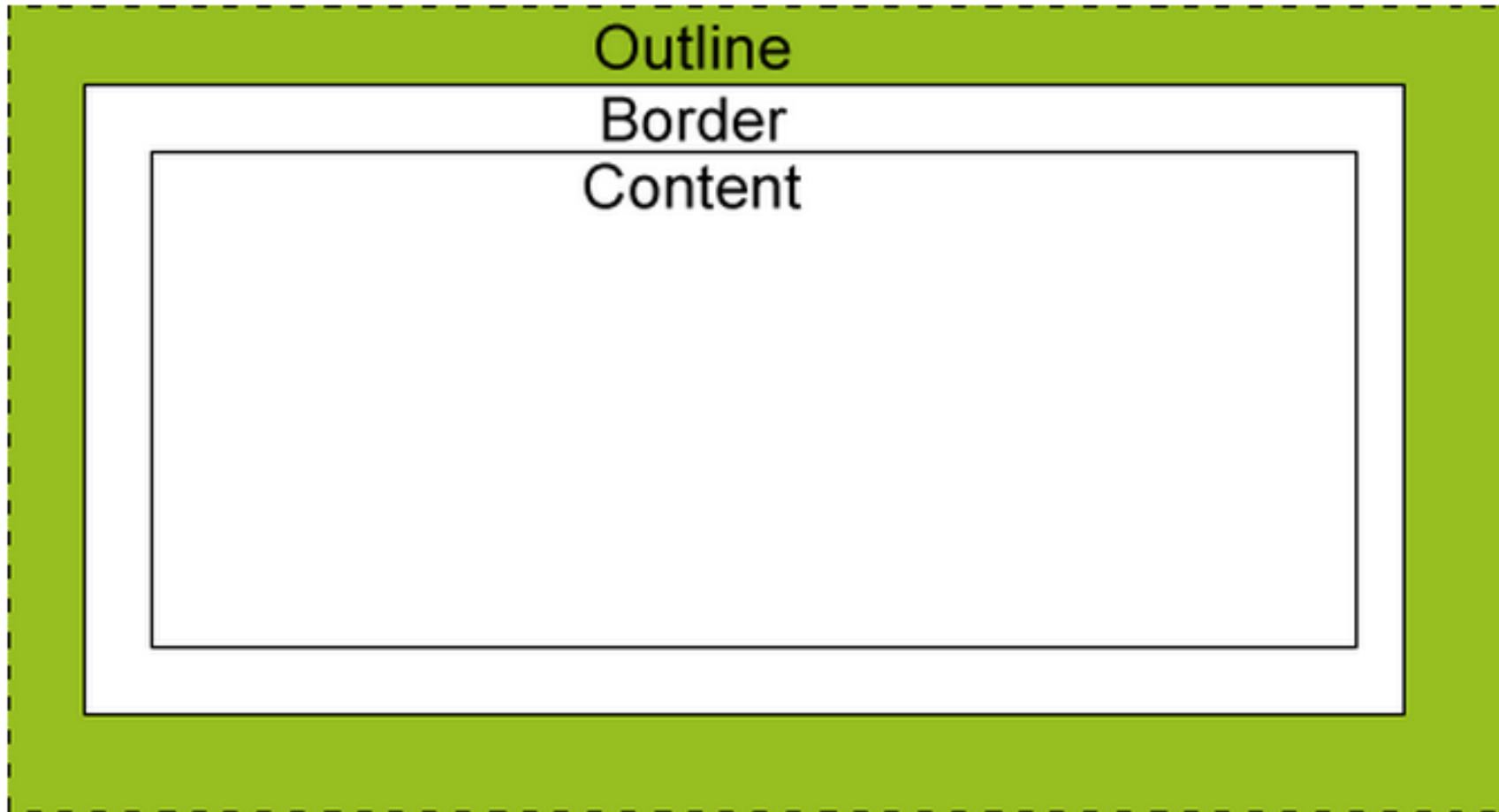
- `border-bottom-width` | `border-left-width` |
`border-right-width` | `border-top-width`

- Property value

- `thin` | `medium` | `thick` | `length`

CSS Outline

CSS Outline



outline-color

- Sets the color of an outline.
- Property value
 - **color** | **invert**



```
1 p {  
2   outline-style:dotted;  
3   outline-color:#00ff00;  
4 }
```

outline-style

- Sets the style of an outline.

- Property value

- **none | hidden | dotted | dashed | solid | double | groove | ridge | inset | outset**

```
1  p {  
2  outline-style:dotted;  
3  }
```

outline-width

- Sets the width of an outline.
- Property value
 - **thin** | **medium** | **thick** | **length**

```
1 p {  
2   outline-style:dotted;  
3   outline-width:5px;  
4 }
```


CSS Margin

Margin

■ Possible values

- **auto** | **length** | **%**

■ **margin-top** | **margin-bottom** | **margin-right** | **margin-left**

```
1 margin-top:100px;  
2 margin-bottom:100px;  
3 margin-right:50px;  
4 margin-left:50px;
```

CSS Padding

Padding

- Possible value

- `length` | `%`

- `padding-top` | `padding-bottom` | `padding-right` | `padding-left`

```
1 padding-top:25px;  
2 padding-bottom:25px;  
3 padding-right:50px;  
4 padding-left:50px;
```