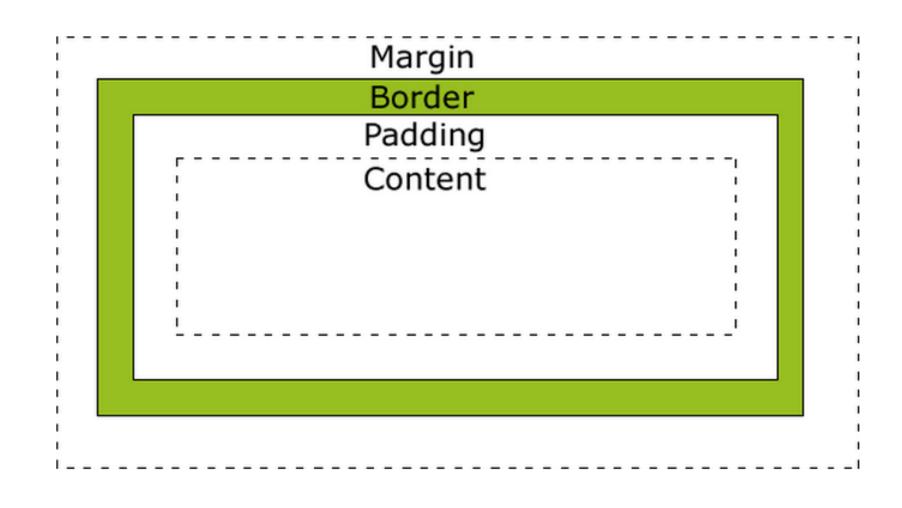# CSS Box Model

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The CSS Box Model

HTML Element Box .

- 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.

Box   Model   URL   .
1. margin (   ) -> Margin Property   . (https://www.w3schools.com/css/css_margin.asp)
2. borders (Box   ) -> Border Property   . (https://www.w3schools.com/css/css_border.asp)
3. padding (   ) -> Padding Property   . (https://www.w3schools.com/css/css_padding.asp)
4.   .

The CSS Box Model (Cont.)

CSS Border

CSS Borders
| Borders | = Border Style |
| Border Width |
| Border Color |
| Border Sides |
| Border Shorthand |
| Rounded Borders |

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
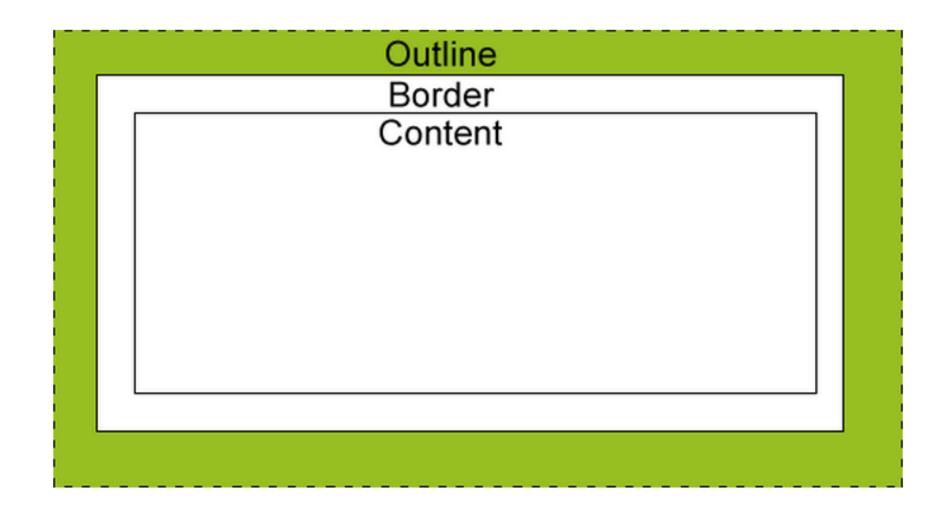
- Sets the style of the border.
  - **border-bottom-style**|**border-left-style**|**border-right-style**|**border-top-style**
- Property value
  - **none**|**hidden**|**dotted**|**dashed**|**solid**| **double**|**groove**|**ridge**|**inset**|**outset**

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;
```