ECAP472

Web Technologies

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Learning Outcomes

After this lecture, you will be able to

- understand Class and ID selectors in CSS
- understand CSS Borders

What is Class and ID selectors in CSS ?

- In CSS, class and ID selectors are used to identify various HTML elements.
- The main benefit of setting class or ID is that you can present the same HTML element differently, depending on its class or ID.

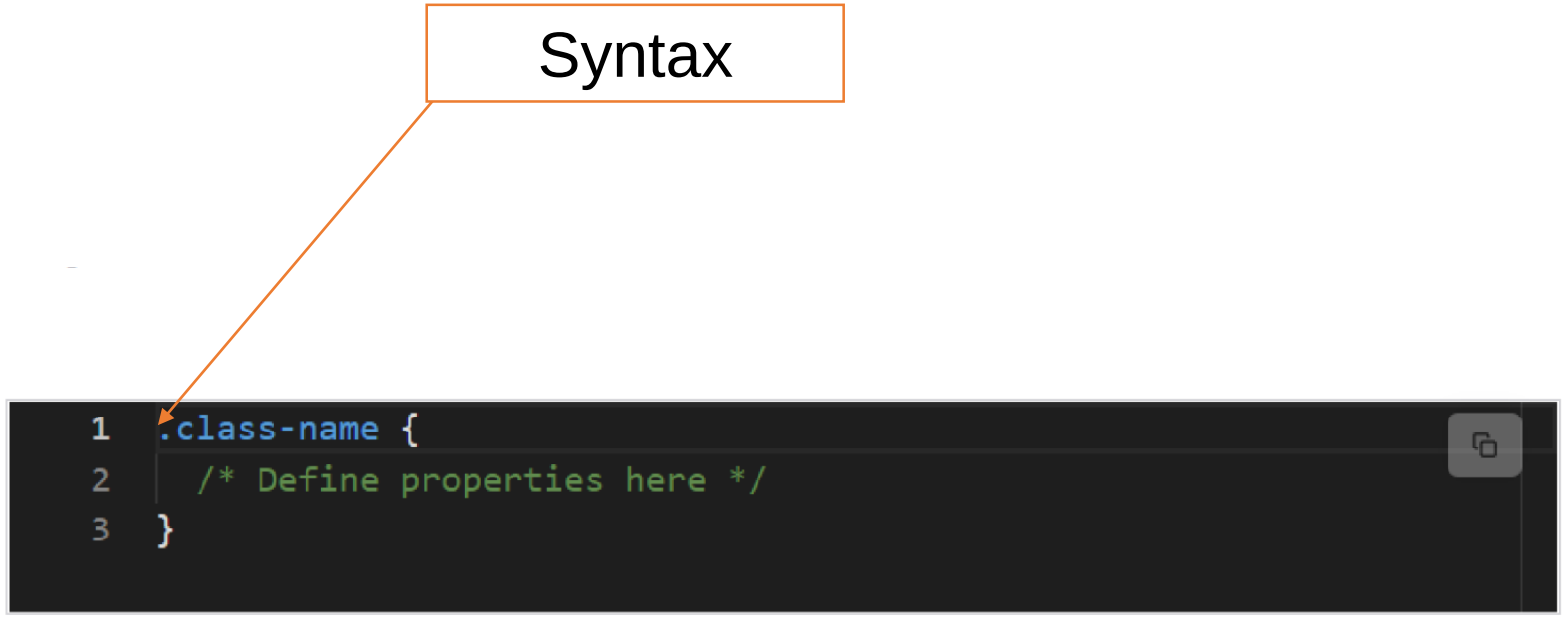
Class selector

```
<html>
  <head>
    <title>...</title>

</html>
```

The class selector selects elements with a specific class attribute. It matches all the HTML elements based on the contents of their class attribute. The . symbol, along with the class name, is used to select the desired class.

Syntax



ID selector

- The ID selector matches an element based on the value of its id attribute. In order for the element to be selected, its ID attribute must exactly match the value given in the selector. The # symbol and the id of the HTML element name are used to select the desired element.

Syntax

Syntax

```
#idname {
  /* Define properties here */
}
```

The difference between Class and ID selector

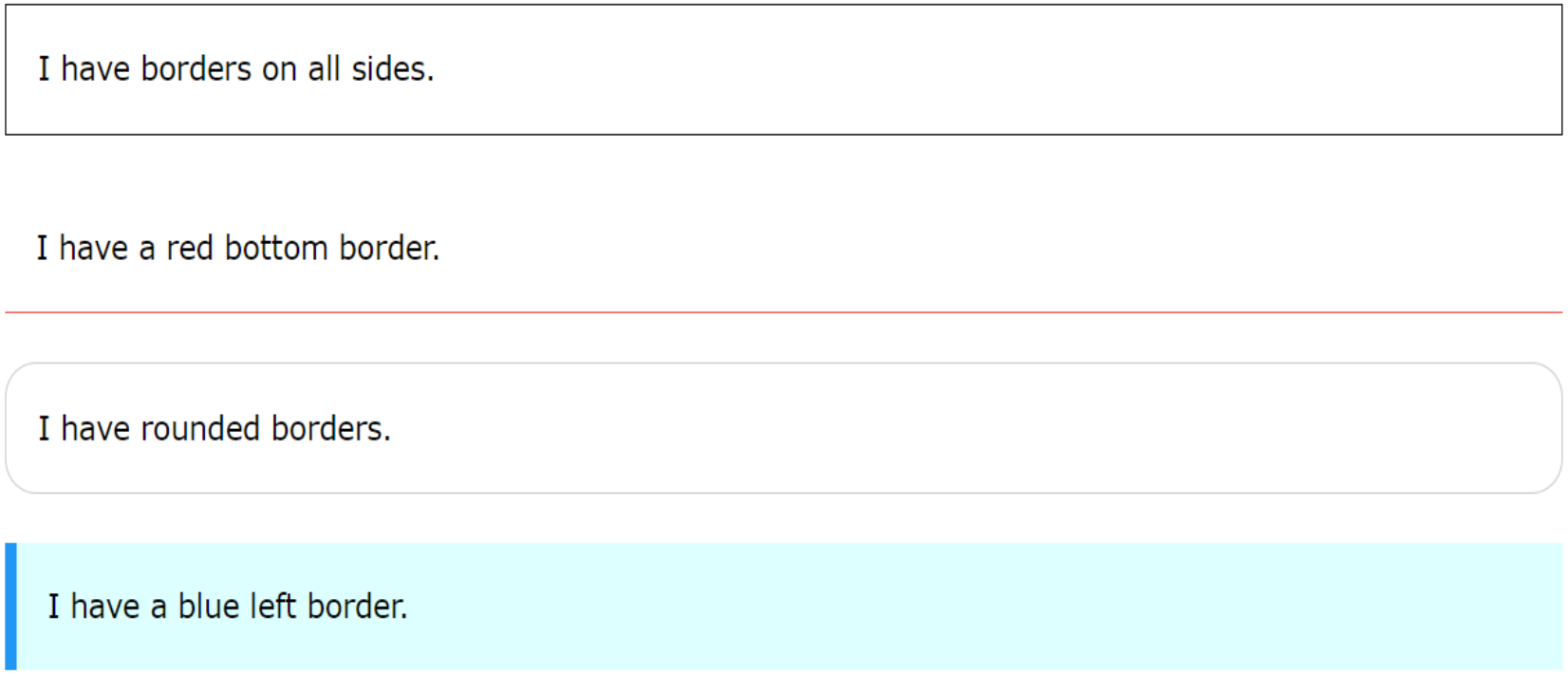
- The difference between an ID and a class is that an ID is only used to identify one single element in our HTML. IDs are only used when one element on the page should have a particular style applied to it. However, a class can be used to identify more than one HTML element.

Difference

Setting CSS properties of individual elements using Class and ID selectors.

CSS Borders

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



CSS Border Style

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

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

Demonstration of the different border styles

- 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;}

Borders ..

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.

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

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

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

Example

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

CSS Border - Individual Sides

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

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.

CSS Border - Shorthand Property

- The border property is a shorthand property for the following individual border properties:
  - ✔ border-width
  - ✔ border-style (required)
  - ✔ border-color

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

CSS Rounded Borders

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

Practical

That’s all for now…