LEARNING ACTIVITY SHEET
SPECIAL PROGRAM IN ICT 9
WEB DESIGN 9
Fourth Quarter, Week 7

Name of Learner: _____

Grade Level /Section: _____ Date: _____

BORDERS

BACKGROUND INFORMATION FOR LEARNERS

Adding **borders** around elements on a web page is an important feature of <u>web design</u>.

In this module, we'll discuss how to use the CSS border property, and how to use its sub-properties, to design a border for a HTML element. By the end of this module, you'll be equipped with all the knowledge you need to design a border in CSS.

CSS BORDER PROPERTIES

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.

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

Example:
```
<!DOCTYPE html>
<html>
<head>
<style>
h1 {
  border-style: dotted;
}
```

```
div {
  border-style: dotted;
}
</style>
</head>
<body>

<h1>A Heading with a dotted border</h1>

<div>A div element with a dotted border.</div>

</body>
</html>
```
Output:

A Heading with a dotted border
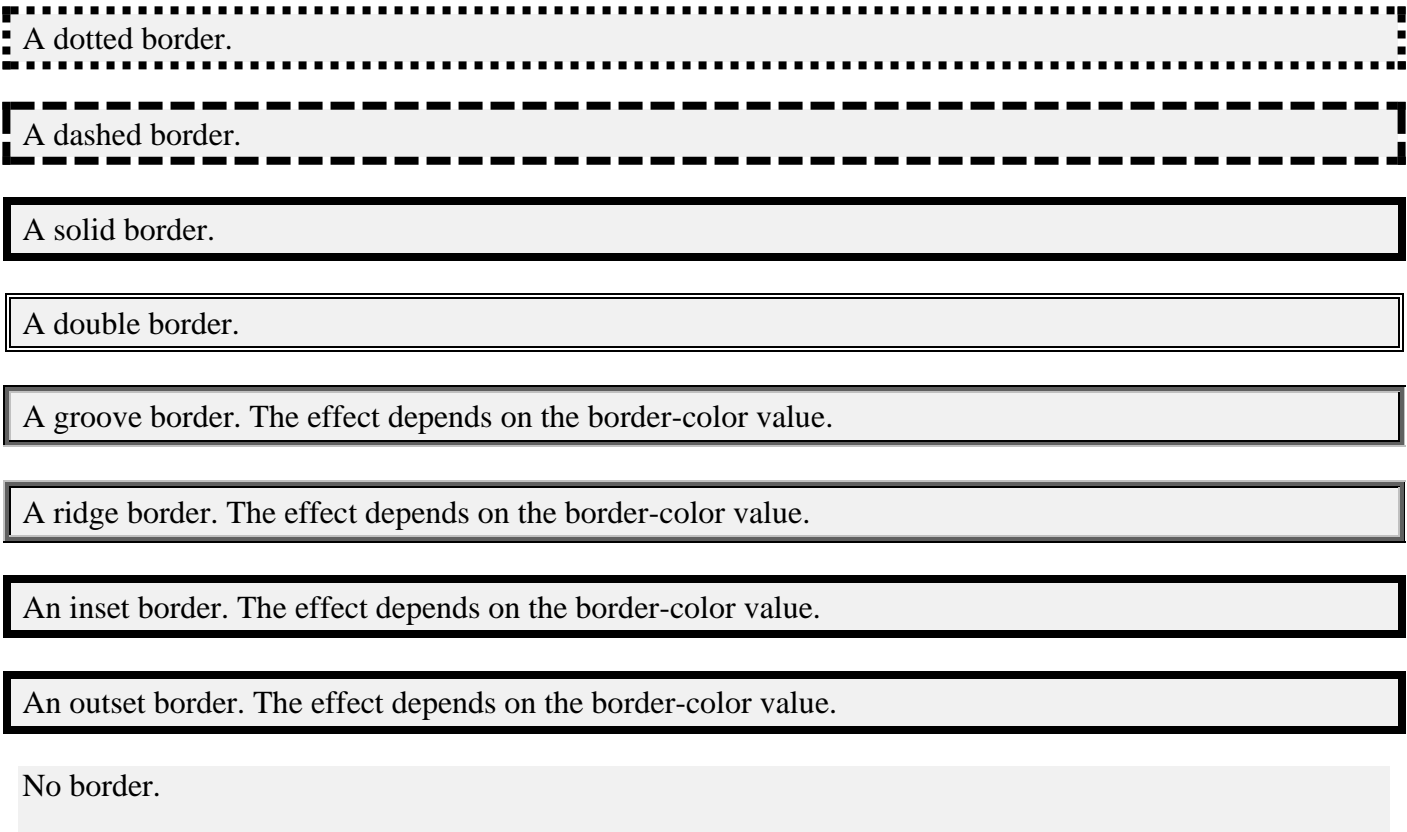
:A div element with a dotted border.:

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

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;}
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.

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
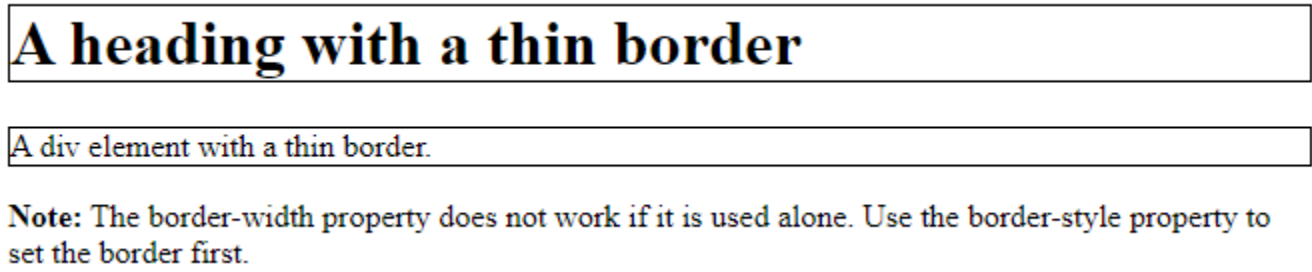
thick border-width

Example:

```html
<!DOCTYPE html>
<html>
<head>
<style>
h1 {
  border-style: solid;
  border-width: thin;
}

div {
  border-style: solid;
  border-width: thin;
}
</style>
</head>
<body>

<h1>A heading with a thin border</h1>
```

<div>A div element with a thin border.</div>

<p>Note: The border-width property does not work if it is used alone. Use the border-style property to set the border first.</p>

</body>
</html>
Output:

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.

Demonstration of the different border colors:

```
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:

Red border

Green border

Blue border

Example:

```
<!DOCTYPE html>
<html>
<head>
<style>
```

```
h1 {
  border-style: solid;
  border-color: coral;
}
div {
  border-style: solid;
  border-color: coral;
}
</style>
</head>
<body>
<h1>A heading with a colored border</h1>
<div>The border-color can be specified with a color name.</div>
<p><strong>Note:</strong> The border-color property does not work if it is used alone. Use the border-style
property to set the border first.</p>
</body>
</html>
```

How To Add a Border to an Image

Use the border property to add a border to an <img> element:

Example

```
img {
  border: 5px solid #555;
```

Example:

```
<!DOCTYPE html>
<html>
<head>
<style>
img {
  border: 5px solid #555;
}
</style>
</head>
<body>
<h2>Border Around Image</h2>
<p>Use the border property to add a border to an image:</p>
<img src="img_snow.jpg" alt="Snow" style="width:150px">
</body>
</html>
```
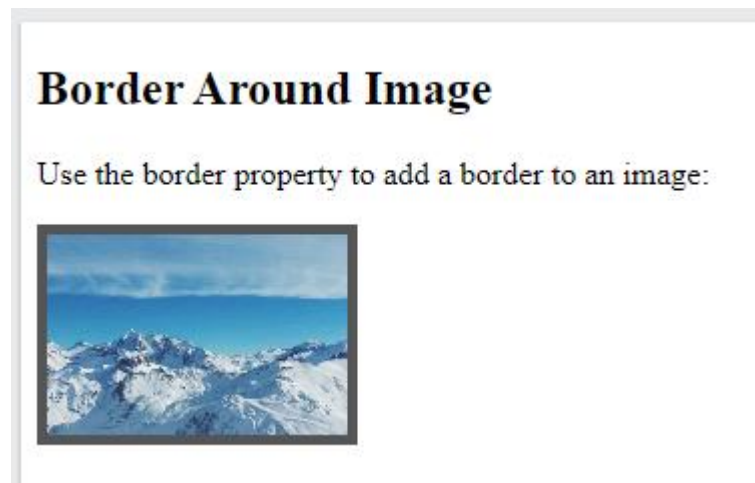**Output:**

LEARNING COMPETENCY:
Apply CSS borders.

ACTIVITY 1:

```html
<!DOCTYPE html>
<html>
<head>
<style>
#borderimg1 {
  border: 10px solid transparent;
  padding: 15px;
  border-image: url(border.png) 30 round;
}

#borderimg2 {
  border: 10px solid transparent;
  padding: 15px;
  border-image: url(border.png) 30 stretch;
}
</style>
</head>
<body>

<h1>The border-image Property</h1>
<p>The border-image property specifies an image to be used as the border around an element:</p>

<p id="borderimg1">Here, the image tiles to fill the area. The image is rescaled if necessary, to avoid dividing tiles.</p>
<p id="borderimg2">Here, the image is stretched to fill the area.</p>

<p>Here is the original image:</p>
<img src="border.png">

<p><strong>Note:</strong> Internet Explorer 10, and earlier versions, do not support the border-image property.</p>

</body>
</html>
```

Activity 2: Identify the following questions. Write your answer in the separate sheet of paper.

_____1. This is allows you to specify the style, width, and color of an element's border.

_____2. This is specifies what kind of border to display.

_____3. This is specifies the width of the four borders.

_____4. This is used to set the color of the four borders.

_____5. Defines a double border.

REFLECTION:

1. What is the importance of borders in web designing? For five points.

_____
_____
_____
_____

REFERENCES

https://www.w3schools.com/css/css_border.asp

https://www.w3schools.com/cssref/pr_border-style.asp

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