<!-- !   Border Property   -->

Definition:
- The `border` property in CSS is used to define the border around an element.

Key Border Properties:

1. **`border-width`**:

   - Specifies the thickness of the border.
   - Can be set individually for each side (top, right, bottom, left) or for all sides at once.
   - Accepts values in length units (e.g., `px`, `em`, `rem`) or predefined keywords:
     - `thin`, `medium`, `thick` (default: `medium`).

   - Example:
   ```css
   border-width: 2px;
   border-width: 2px 4px 6px 8px; /* top right bottom left */
   ```

2. **`border-style`**:

   - Specifies the style or type of the border.
   - Common styles include:
     - `none`: No border (default).
     - `solid`: A solid line.
     - `dashed`: A dashed line.
     - `dotted`: A dotted line.
     - `double`: Two solid lines.
     - `inset`: An inset effect (appears as though the content is embedded).
     - `outset`: An outset effect (appears as though the content is coming out).
   - Example:
   ```css
   border-style: solid;
   border-style: dotted dashed solid double; /* top right bottom left */
   ```

3. **`border-color`**:

   - Specifies the color of the border.
   - Can be set using:
     - Named colors (e.g., `red`, `blue`).
     - Hex codes (e.g., `#ff0000`).
     - RGB/RGBA values (e.g., `rgb(255, 0, 0)`).
     - HSL/HSLA values (e.g., `hsl(0, 100%, 50%)`).
   - Can be set for each side or all sides at once.
   - Example:
     ```css
     border-color: black;
     border-color: red green blue yellow; /* top right bottom left */
     ```

4. **`border-radius`**:

   - Rounds the corners of the border, creating a curved effect.
   - Can be set in length units (e.g., `px`, `em`) or as a percentage.
   - Can be applied to all corners or individually.
   - Example:
     ```css
     border-radius: 10px; /* all corners */
     border-radius: 10px 20px 30px 40px; /* top-left, top-right, bottom-right, bottom-left */
     border-radius: 50%; /* perfect circle/ellipse */
     ```

5. **`border`** (Shorthand):

   - Combines `border-width`, `border-style`, and `border-color` into a single property.
   - Syntax: `border: [width] [style] [color];`
   - Example:
     ```css
     border: 2px solid black;
     ```

6. **Individual Border Sides**:
    - Borders can be styled individually for each side using:
        - `border-top`
        - `border-right`
        - `border-bottom`
        - `border-left`

    - Example:

    ```css
    border-top: 5px solid red;
    border-right: 10px dashed blue;
    border-bottom: 3px dotted green;
    border-left: 2px double yellow;
    ```