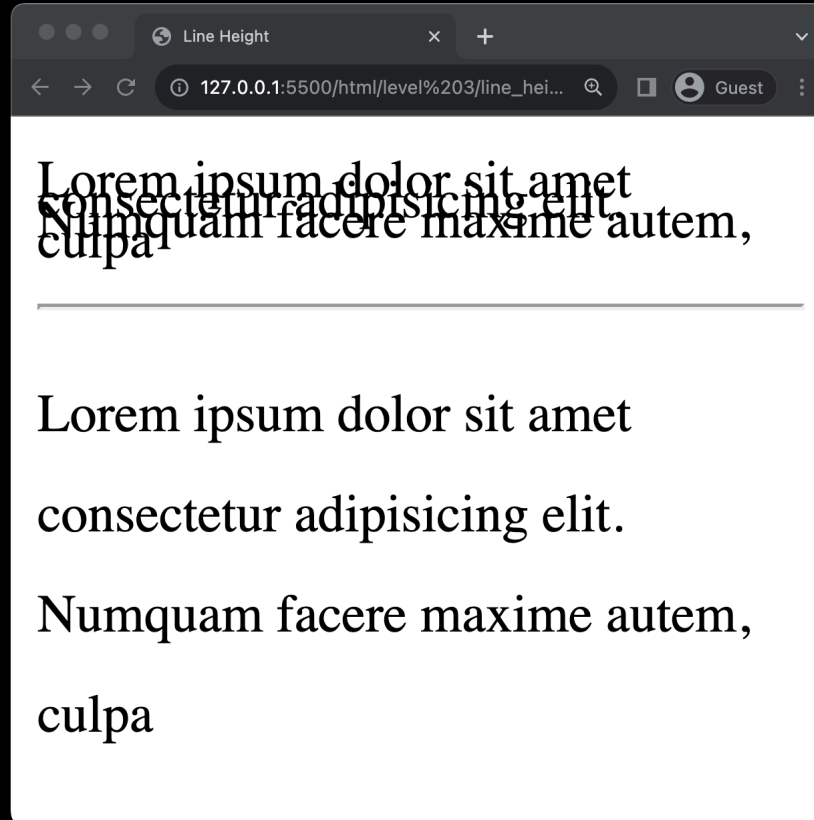


# Line Height

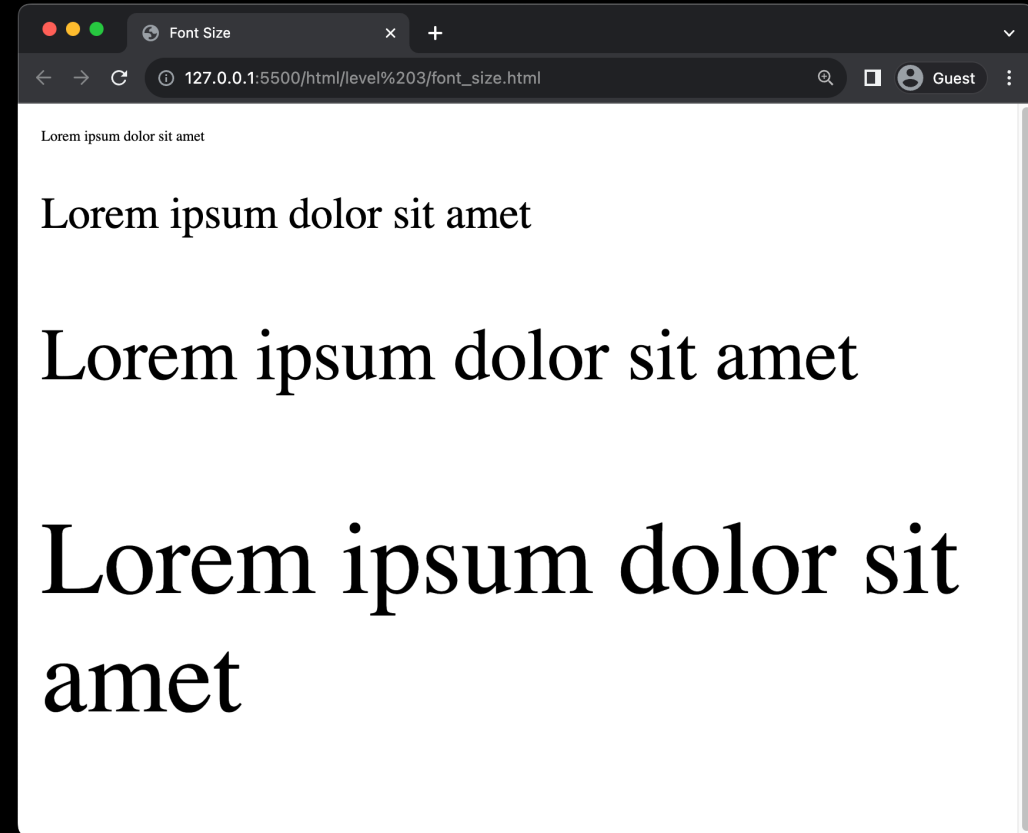
```
<head>
  <title>Line Height</title>
  <style>
    #first { line-height: 6px; }
    #second { line-height: 30px; }
  </style>
</head>
<body>
  <p id="first">Lorem ipsum dolor sit amet
consectetur adipisicing elit. Numquam facere
maxime autem, culpa</p> <hr>
  <p id="second">Lorem ipsum dolor sit amet
consectetur adipisicing elit. Numquam facere
maxime autem, culpa</p>
</body>
```



- **Usage:** Adjusts the amount of **space above and below** inline elements.
- **Readability:** Enhances text readability by preventing overcrowding.
- **Vertical Spacing:** Useful for **controlling vertical spacing** between lines of text.

# Font Property (font-size)

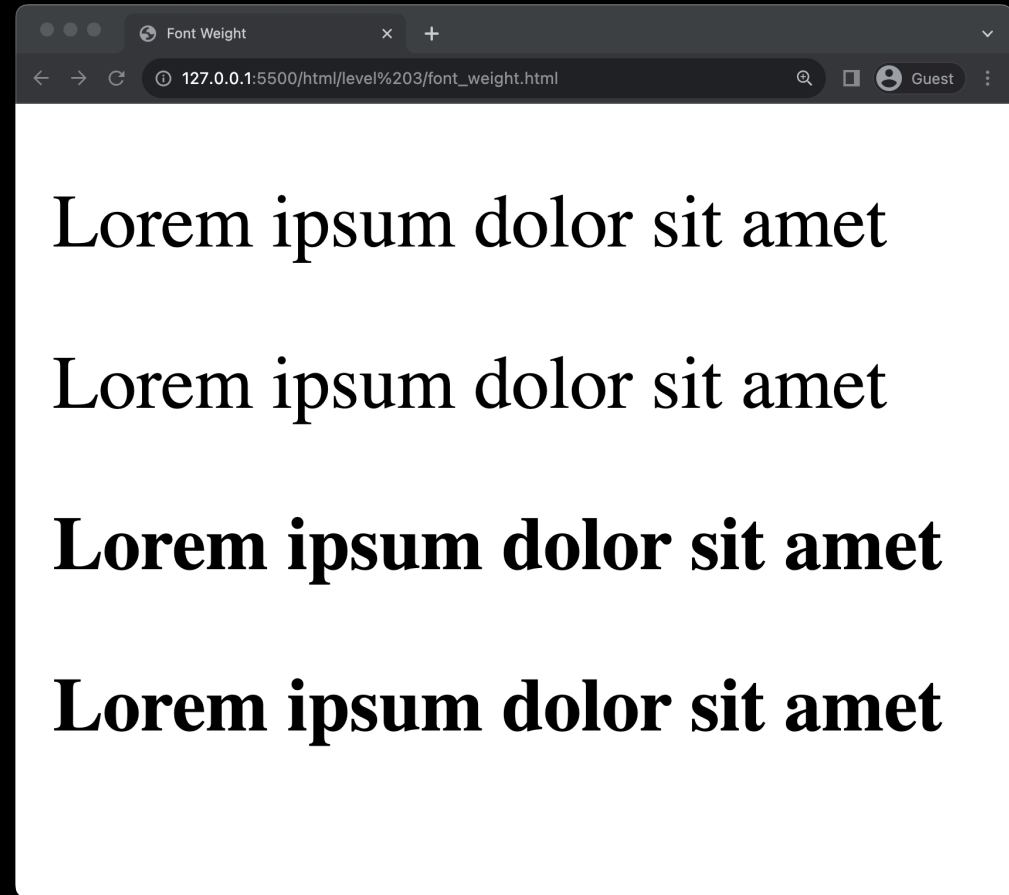
```
<head>
  <title>Font Size</title>
  <style>
    #first {font-size: 5px;}
    #second {font-size: 15px;}
    #third {font-size: 25px;}
    #fourth {font-size: 35px;}
  </style>
</head>
<body>
  <p id="first">Lorem ipsum dolor sit amet</p>
  <p id="second">Lorem ipsum dolor sit amet</p>
  <p id="third">Lorem ipsum dolor sit amet</p>
  <p id="fourth">Lorem ipsum dolor sit amet</p>
</body>
```



- **Usage:** Sets the **size of the font** in web content.
- **Responsiveness:** Helps in creating **responsive designs** adaptable to various screen **sizes**.
- **Readability:** Crucial for ensuring the **readability** of text on websites.

# Font Property (font-weight)

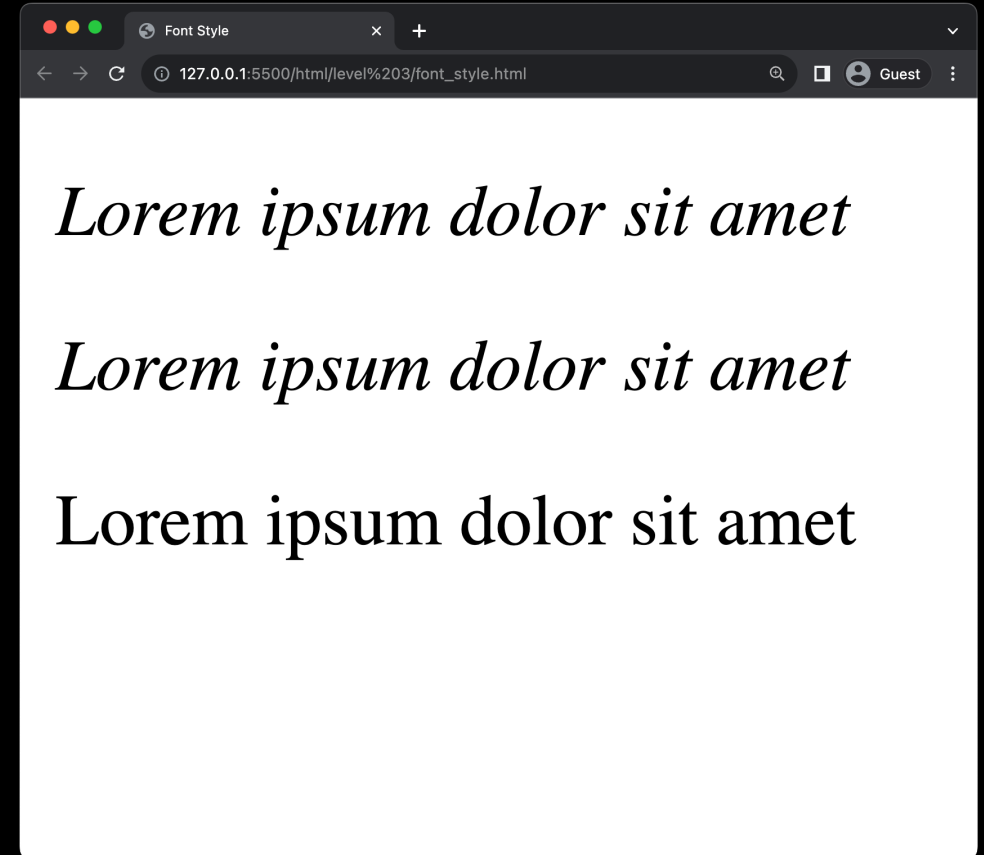
```
<head>
  <title>Font Weight</title>
  <style>
    #first {font-weight: 100;}
    #second {font-weight: 400;}
    #third {font-weight: 600;}
    #fourth {font-weight: 900;}
  </style>
</head>
<body>
  <p id="first">Lorem ipsum dolor sit amet</p>
  <p id="second">Lorem ipsum dolor sit amet</p>
  <p id="third">Lorem ipsum dolor sit amet</p>
  <p id="fourth">Lorem ipsum dolor sit amet</p>
</body>
```



- **Usage:** Defines the **thickness** of characters in a font.
- **Values:** Can take values like **normal**, **bold**, **bolder**, or numeric values (100 to 900).
- **Text Emphasis:** Utilized to emphasize text or **create contrast**

# Font Property (font-style)

```
<head>
  <title>Font Style</title>
  <style>
    #first {font-style: italic;}
    #second {font-style: oblique;}
    #third {font-style: normal;}
  </style>
</head>
<body>
  <p id="first">Lorem ipsum dolor sit amet</p>
  <p id="second">Lorem ipsum dolor sit amet</p>
  <p id="third">Lorem ipsum dolor sit amet</p>
</body>
```



- **Usage:** Controls the **style** of the font, mainly affecting its inclination.
- **Values:** Common values are **normal**, **italic**, and **oblique**.
- **Text Formatting:** Useful for **highlighting** or distinguishing

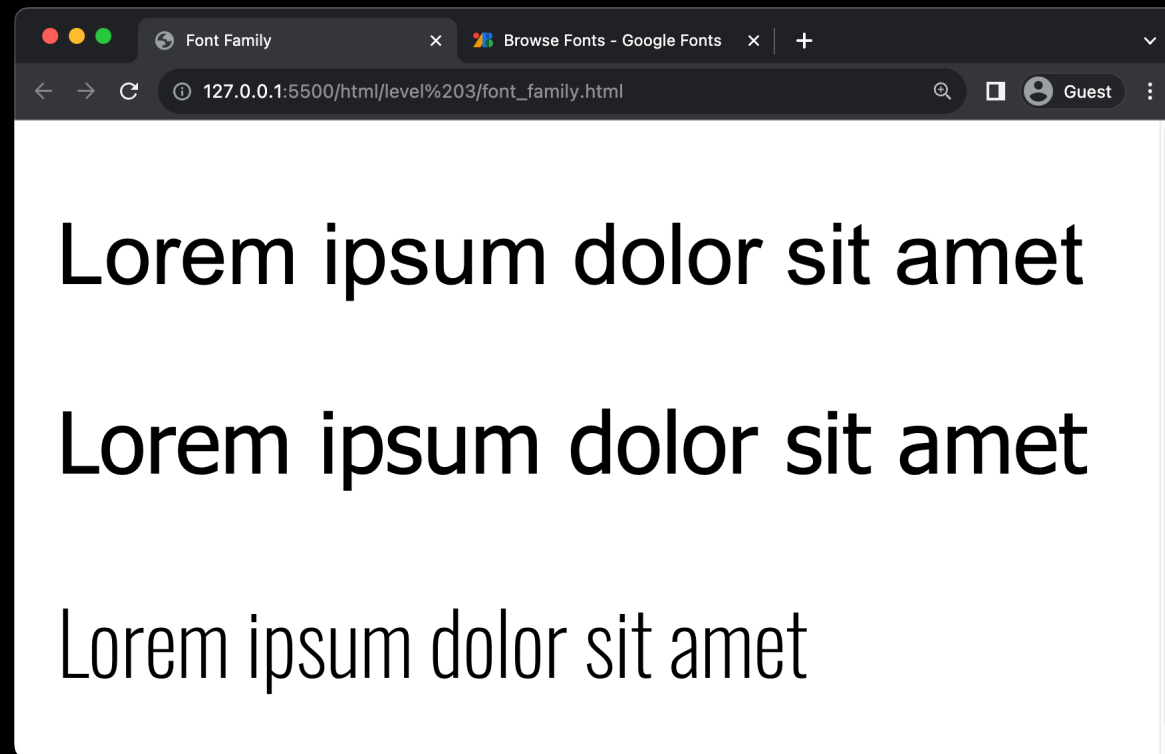
# Font Family

- **Usage:** Defines which font should be used for text within an element.
- **Specific Fonts:** Common choices include Arial, Segoe UI, Times New Roman, and others.
- **Fallback Mechanism:** Incorporate a fallback font family in case the primary font is unavailable; helps in maintaining the site aesthetics.
- **Web Safe Fonts:** Employ web-safe fonts to ensure consistency across different browsers and operating systems.
- **Generic Family:** Always end the font family list with a generic family like serif or sans-serif as a last resort option.

Arial Narrow  
Book Antiqua  
Cambria  
Century Gothic  
Consolas  
COPPERPLATE  
Georgia  
**Impact**  
Lucida Sans Unicode  
Papyrus  
*Script MT Bold*  
Tahoma  
Times New Roman  
Verdana

# Font Family

```
<head>
  <title>Font Family</title>
  <link rel="preconnect" href="https://fonts.googleapis.com">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link href="https://fonts.googleapis.com/css2?family=Oswald:wght@200&
display=swap" rel="stylesheet">
  <style>
    #first {font-family: Arial, Helvetica, sans-serif;}
    #second {font-family: 'Segoe UI', Tahoma, Geneva, Verdana,
    sans-serif;}
    #third {font-family: 'Oswald', sans-serif;}
  </style>
</head>
<body>
  <p id="first">Lorem ipsum dolor sit amet</p>
  <p id="second">Lorem ipsum dolor sit amet</p>
  <p id="third">Lorem ipsum dolor sit amet</p>
</body>
```



# Font Family (Fallbacks)

```
font-family: "Open Sans", "Helvetica Neue", "Arial", sans-serif;
```

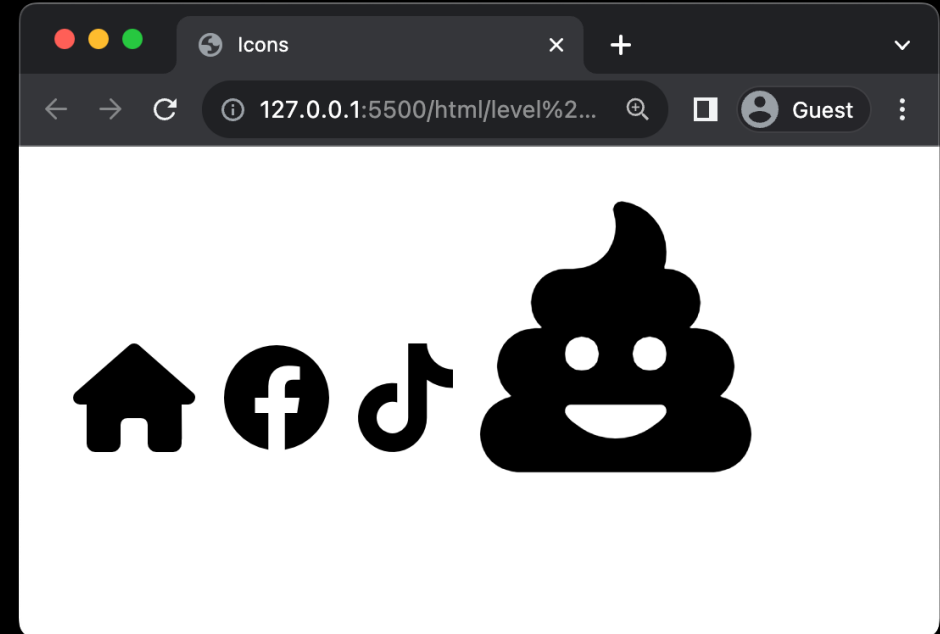
When defining a font-family in CSS, **you can list multiple fallback fonts**. There's no strict limit, but keep it reasonable for maintainability and readability.

In this example:

- If "Open Sans" is not available, the browser will try "Helvetica Neue".
- If "Helvetica Neue" is not available, the browser will try "Arial".
- If none of the specified fonts are available, the browser will use the default sans-serif font.

# Icons using Fonts

```
<head>
  <title>Icons</title>
  <script src="https://kit.fontawesome.com/43290fa92d.
js" crossorigin="anonymous"></script>
</head>
<body>
  <i class="fa-solid fa-house"></i>
  <i class="fa-brands fa-facebook"></i>
  <i class="fa-brands fa-tiktok"></i>
  <i class="fa-solid fa-poo" style="font-size: 40px;"></i>
</body>
```



Using <https://fontawesome.com>



# Practice Set

## Text Properties

- Create one div inside another div.  
Set id and text **outer** to outer div,  
set id and text **inner** to inner div.  
Set outer div text size to 25px.  
Set inner to 10px.
- Use icons from **fontawesome.com** and  
use icons of **LinkedIn** and **GitHub**
- Create an **Heading** at the centre and  
make capitalized
- Use Font family for the whole page  
to **TimeNewRoman**

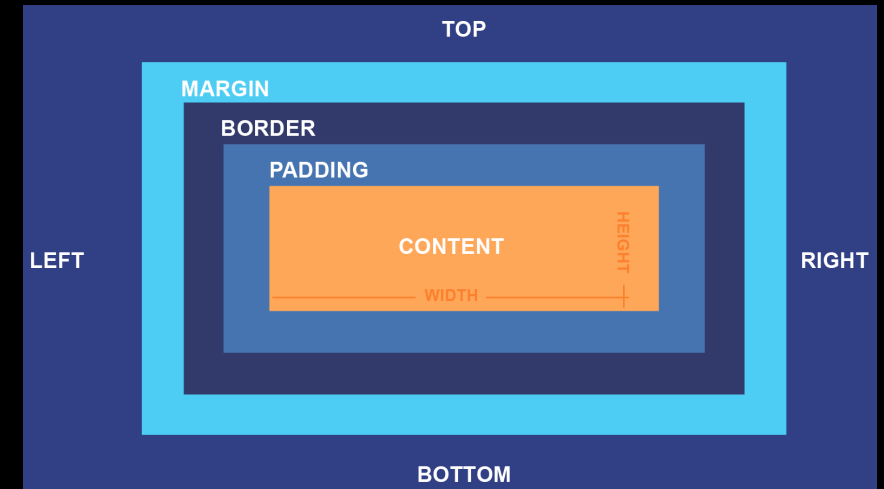




# What is Box Model

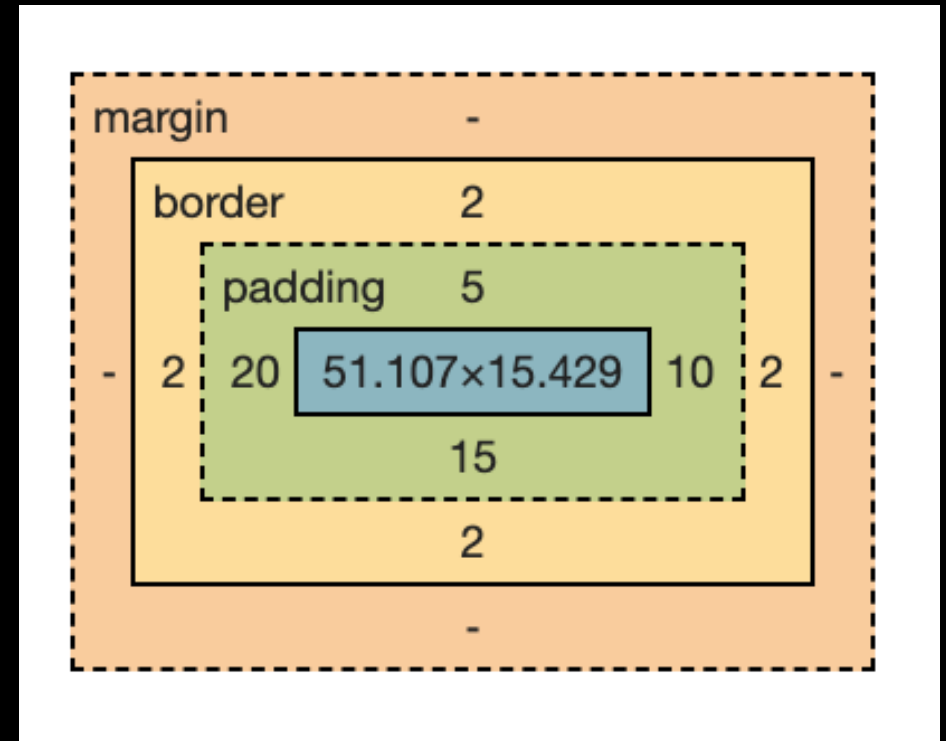
मिठाई भण्डार पे चलो

- **Core Concept:** Central concept in CSS that outlines the design and layout of elements on the web page.
- **Components:** Consists of four main components - margin, border, padding, and content.
- **Margin:** The space outside the border, separating the element from others.
- **Border:** The outline that encapsulates the padding and content.
- **Padding:** The space between the border and the actual content, providing a buffer.
- **Content:** The innermost layer where text, images, or other media are housed.



# Padding Property

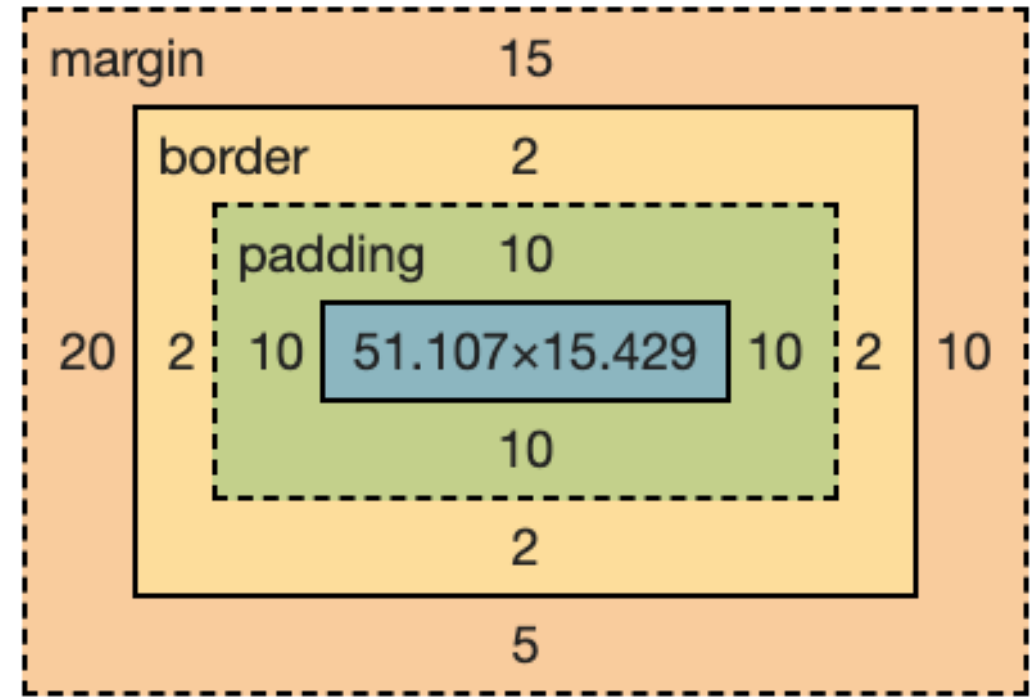
```
<head>
  <title>Padding</title>
  <style>
    * { margin: 0; padding: 0; }
    #button1 {
      padding: 5px 10px 15px 20px;
      background-color: aquamarine;
    }
  </style>
</head>
<body>
  <button id="button1">Click Me</button>
</body>
```



- **Usage:** Defines the space between the content of an element and its border.
- **Individual Sides:** Allows setting padding for individual sides using `padding-top`, `padding-right`, `padding-bottom`, and `padding-left`.
- **Shorthand:** Can use shorthand property `padding` to set all sides at once, e.g., `padding: 10px 20px 10px 20px`.

# Margin Property

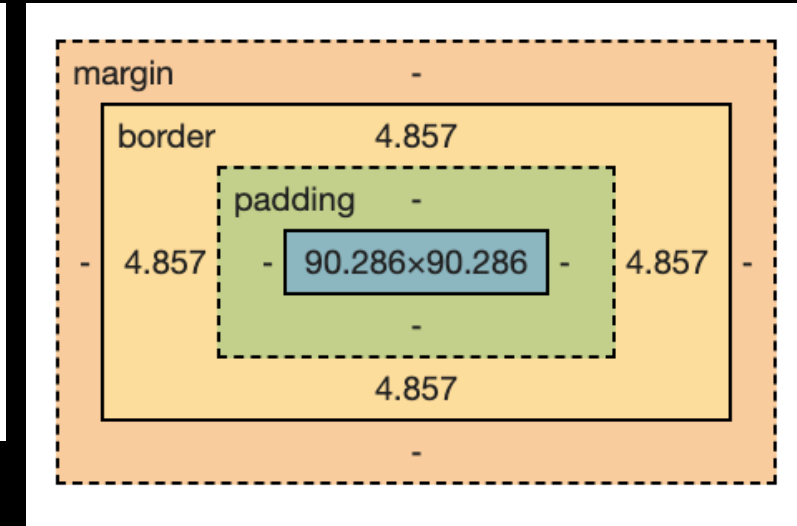
```
<head>
  <title>margin</title>
  <style>
    * { margin: 0; padding: 0; }
    #button1 {
      margin: 15px 10px 5px 20px;
      padding: 10px;
      background-color: aquamarine;
    }
  </style>
</head>
<body>
  <button id="button1">Click Me</button>
</body>
```



- **Functionality:** Sets the space around elements, separating them from others.
- **Individual Sides:** Customizable for **top**, **right**, **bottom**, and **left** sides.
- **Shorthand:** Allows quick setup, e.g., **margin: 10px 20px**. (clockwise)
- **Auto Value:** Can be used for central alignment with **auto** value.

# Border Property

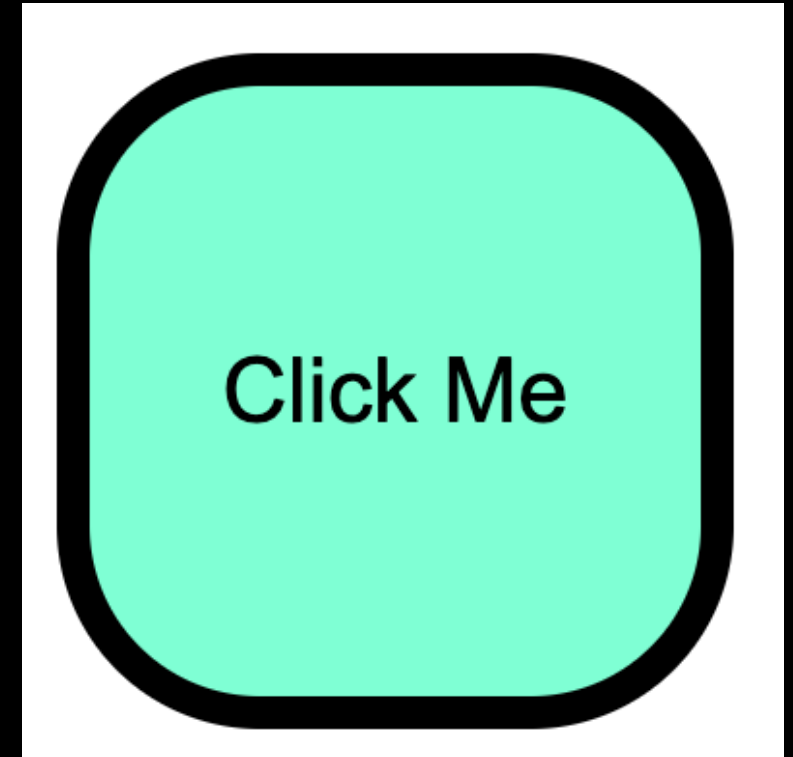
```
<head>
  <title>Border</title>
  <style>
    * { margin: 0; padding: 0; }
    #button1 {
      height: 100px; width: 100px;
      border: 5px dashed black;
      background-color: aquamarine;
    }
  </style>
</head>
<body>
  <button id="button1">Click Me</button>
</body>
```



- **Usage:** Creates an outline around **HTML** elements.
- **Components:** Defined by **width**, **style**, and **color** attributes.
- **Styles:** Includes options like **solid**, **dashed**, and **dotted**.
- **Shorthand:** Can set attributes at once, e.g., **border: 2px solid black**.

# Border Property (border radius)

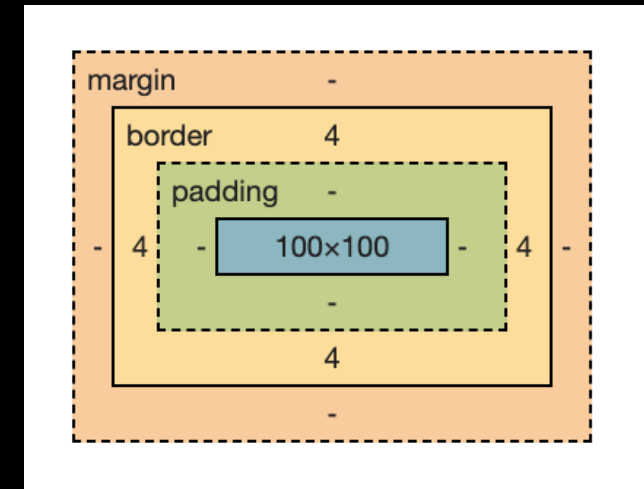
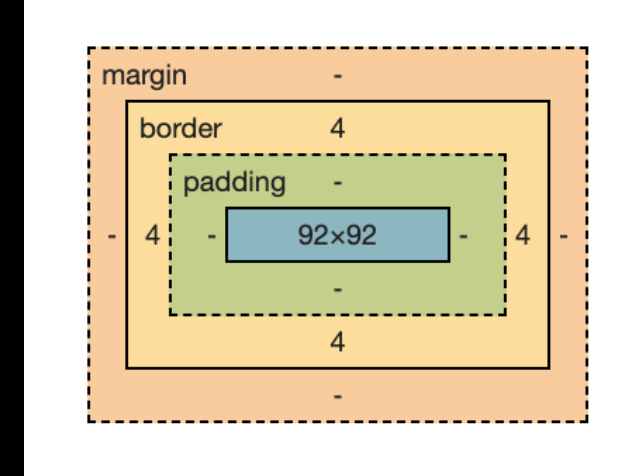
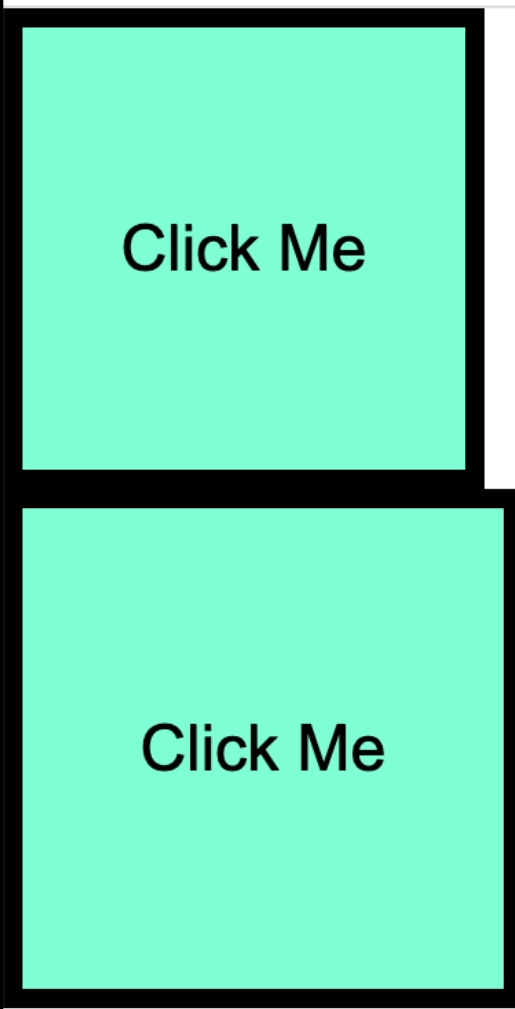
```
<head>
  <title>Border Radius</title>
  <style>
    * { margin: 0; padding: 0; }
    #button1 {
      height: 100px; width: 100px;
      border: 5px solid black;
      border-radius: 30px;
      background-color: aquamarine;
    }
  </style>
</head>
<body>
  <button id="button1">Click Me</button>
</body>
```



- **Usage:** Used to create rounded corners for elements.
- **Individual Corners:** Allows setting different radii for each corner.
- **Shorthand:** e.g., border-radius: 10px 20px.

# Border Property (box sizing)

```
<head>
  <title>Box Sizing</title>
  <style>
    * { margin: 0; padding: 0; }
    button {
      height: 100px; width: 100px;
      border: 4px solid black;
      background-color: aquamarine;
    }
    #button1 { box-sizing: border-box; }
    #button2 { box-sizing: content-box; }
  </style>
</head>
<body>
  <button id="button1">Click Me</button>
  <button id="button2">Click Me</button>
</body>
```





# Practice Set

## Box Model

- Create a div with height and width **200px** and observe different values in the box model by inspecting.
- Create a **button** and give **10px padding** to top and bottom and **15px** on the sides.
- Add **100px margin** to the button on all sides.
- Add dotted border with color **red** and so much that the button becomes a **circle**.
- Create **two boxes** with different box-sizing values and observe changes in box model.

