HTML > CSS > Bootstrap > Javascript > Flask …

Display:
There are 4 types of display:
1. **Block** : Consumes the entire width (of the screen), height depends on content.
You can modify the width of block element.
e.g. p, h1-h6, div, ol, ul, form, etc.

2. **Inline** : Width & height both depends on the content.
You can't change the width of inline element.
You can make a block element as switch and vice-versa.
e.g. span, img, a, etc.

3. **Inline-Block**
Best of both worlds - It occupies as much space as the content demands, but is flexible in terms of modifying the width.
e.g. img is kind of inline-block

4. **None**
Hides the element.

Hiding elements:
We can hide the elements in 2 ways:
1. display: none;
2. visibility : hidden;

Position of elements are determined by:
a. Box Model
b. Margin
c. Size of border
d. Width & Height of the element
e. Display block or inline
f. Allowed to set width or not.

Positions:
4 positions:
1. **Static**: All HTML elements are static in their position by default.

2. **Relative: (Push from …)**
    a. Top
    b. Bottom
    c. Left
    d. Right

HTML	CSS
<body> </body>	.red{ height:100px; width:100px; background-color: red; display: inline-block; position: relative; left:200px; } .blue{ height:100px; width:100px; background-color: blue; display: inline-block; position: relative; right:100px; } .yellow{ height:100px; width:100px; background-color: yellow; display: inline-block; position: relative; right:100px; }

3. **Absolute**

HTML	CSS
<body> </body>	.red{ height:100px; width:100px; background-color: red; position: absolute; right: 20px; } .blue{ height:100px; width:100px; background-color: blue; } .yellow{ height:100px; width:100px; background-color: yellow; }

Challenge 1: Yellow, Blue, Red (Diagonally corner to corner)

HTML	CSS
<body> </body>	body{ margin:0; } .red{ background-color: red; height: 100px; width: 100px; position: absolute; left:200px; } .blue{ background-color: blue; height: 100px; width: 100px; position: absolute; left:100px; } .yellow{ background-color: yellow; height: 100px; width: 100px; position: absolute; }

Challenge 2: Yellow, Blue, Red (Side by side)

HTML	CSS (Method1)	CSS(Method 2)

<body> </body>	body{ margin:0; } .red{ background-color: red; height: 100px; width: 100px; position: absolute; margin:200px; } .blue{ background-color: blue; height: 100px; width: 100px; position: absolute; margin:100px; } .yellow{ background-color: yellow; height: 100px; width: 100px; position: absolute; }	body{ margin:0; } .red{ background-color: red; height: 100px; width: 100px; position: relative; left:200px; } .blue{ background-color: blue; height: 100px; width: 100px; position: relative; left:100px; bottom:100px; } .yellow{ background-color: yellow; height: 100px; width: 100px; position: relative; bottom: 200px; }

Relative container with absolute divs within it

HTML	CSS
<body> </body>	body{ margin:0; } .container{ width: 500px; height: 500px; background-color: grey; position: relative; } .red{ background-color: red; height: 100px; width: 100px; position: absolute; right: 20px; } .blue{ background-color: blue; height: 100px; width: 100px; position: absolute; left: 100px; } .yellow{ background-color: yellow; height: 100px; width: 100px; position: absolute; }

4. Fixed

HTML	CSS
<body> </body>	body{ margin:0; } .container{ width: 500px; height: 500px; background-color: grey; position: relative; } .red{ background-color: red; height: 100px; width: 100px; position: absolute; right: 0px; } .blue{ background-color: blue; height: 100px; width: 100px; position: absolute; left: 100px; top:0; } .yellow{ background-color: yellow; height: 100px; width: 100px; position: fixed; top:0; }

CSS Static & Relative Positioning:
How things get rendered on the screen?

a. Content is everything
   a. Inline elements: ht & width both are content dependent
   b. Block elements : width 100%, height is dependent on content.

b. Ordering comes from the code

c. Children sit on parents (Introduction of z-axis)

HTML	CSS
     Saurav Bhattacharyya 	div{ height:200px; width: 400px; background-color: peachpuff; } h1{ background-color: lightseagreen; padding: 30px; margin: 10px; border: solid 5px; } .rav{ background-color: yellow; text-decoration: underline; }

CSS FONT STYLING:

2 major font types:

1. Serif (Default font) [Times New Roman is the default font for most browsers]
2. Sans-Serif [Default font is Arial]

Apart from the two major categories, 3 more categories are available:

1. Fantasy (Default font : Papyrus)
2. Monospace
3. Cursive

Good starting point to understand the basic fonts supported by most browsers:
https://www.w3schools.com/css/css_font.asp

Exhaustive list of browser compatible fonts:
https://www.cssfontstack.com/

Custom fonts:

fonts.google.com

1. Choose your desired font
2. Choose and add your desired style based on weight.
3. View Selected Families
4. Copy the pre-populated link in the head section of the html page.
5. Copy the font-family in css.

Custom images and animations:
https://www.flaticon.com/
https://giphy.com/search/code

Font Sizing:
Default font size is 16px.
You can change the font size by the following syntax: **font-size: 90px;**

Because a fixed pixel size is used for font-size, changing browser font settings won't impact our website content.
16px = 100% = 1em
90px = 562.5% = 5.625em

Note : If separate font-size is mentioned both in body as well as h1 in % or em, then the size of the font grows cumulatively. So be aware of where all you are putting the font-size.

Precaution: Use rem (Root em) instead of em;