



index.html






```
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5     <meta charset="UTF-8">
6     <meta name="viewport" content="width=device-width, initial-scale=1.0">
7     <link rel="stylesheet" href="style.css">
8     <title>Flexbox in CSS</title>
9 </head>
10
11 <body>
12
13     <h1 id="flexbox">Flexbox in CSS</h1>
14
15     <p id="flex-definition">It is a way to prepare and arrange elements in your HTML layout. You can align them
16 in a particular direction, distribute them in a space and decide spacing between the elements.</p>
17
18     <h1 id="terminologies">Flexbox Terminologies</h1>
19
20     <ol start="1" id="flex-terms">
21
22         <li>Flexbox Container: The flexbox container is the element on which we can activate flex properties and
23 then control the children using flex.</li> <br>
24
25         <li>Flex Items: The flex items are the elements present inside the flex container.</li> <br>
26
27         <li>Flex Direction: Each flex container has a direction attached to it. The items inside the container are
28 arranged in that direction only. The default direction is row. We can change it to column, column-reverse,
29 row-reverse. Based on the direction, we have two axis defined in the container. If the direction is row
30 then X axis is the main axis and Y axis is the cross axis. If the direction is column then X axis is the
31 cross axis and Y axis is the main axis. To handle distribution on the X axis we use justify-content and to
32 handle distribution on the Y axis we use align-items.</li> <br>
33
34         <li>Flex Wrap: This property allows flex items to wrap in multiple lines.</li> <br>
35
36         <li>Justify-Content: This property is used to align and distribute elements the flex items across the main
```

```
37     axis. It has the following values: flex-start, flex-end, center, space-between, space-around and space-
38     evenly.</li> <br>
39
40     <li>Align-Items: This property is used to align and distribute elements the flex items across the cross
41     axis. It has the following values: flex-start, flex-end, center, baseline and stretch.</li> <br>
42
43     <li>Gap: This property is used to set the gap between the flex items.</li>
44
45     <li>Flex Flow: This property is a combination of flex-direction and flex-wrap.</li>
46
47 </ol>
48
49 <h1 id="example">Example of Flexbox</h1>
50
51 <div id="container">
52
53     <div class="item">Item 1</div>
54
55     <div class="item">Item 2</div>
56
57     <div class="item">Item 3</div>
58
59     <div class="item">Item 4</div>
60
61     <div class="item">Item 5</div>
62
63     <div class="item">Item 6</div>
64
65     <div class="item">Item 7</div>
66
67     <div class="item">Item 8</div>
68
69     <div class="item">Item 9</div>
70
71     <div class="item">Item 10</div>
72
73     <div class="item">Item 11</div>
74
```

```
75         <div class="item">Item 12</div>
76
77     </div>
78
79 </body>
80
81 </html>
```

style.css

```
1  /*
2
3  |
4  |
5  | ---- X axis ----
6  |
7  |
8  | _ _ _ _ _
9
10 Y axis
11
12 */
13
14 * {
15     margin: 0;
16     padding: 0;
17     box-sizing: border-box;
18     font-family: 'Times New Roman', Times, serif;
19 }
20
21 #flexbox {
22     text-align: center;
23     margin-top: 10px;
24     color:  red
25 }
26
27 #flex-definition {
28     margin-top: 10px;
29     font-size: 18px;
30     margin-left: 10px;
31     color:  blue
32     font-weight: 500;
33 }
34
35 #terminologies {
36     margin-top: 10px;
```

```
37     color:  green
38     text-align: center;
39 }
40
41 #flex-terms {
42     margin-left: 20px;
43     margin-top: 10px;
44     font-size: 18px;
45     text-align: justify;
46     color:  purple
47     margin-right: 20px;
48 }
49
50 #example {
51     margin-top: 10px;
52     color:  blueviolet
53     text-align: center;
54 }
55
56 #container {
57     display: flex;
58     justify-content: space-evenly;
59     align-items: center;
60     flex-direction: row;
61     flex-wrap: wrap;
62 }
63
64 .item {
65     width: 200px;
66     height: 200px;
67     background-color:  red
68     color:  white
69     text-align: center;
70     line-height: 190px;
71     border: 3px solid black;
72     font-weight: bold;
73     margin: 10px 0;
74     border-radius: 10px;
```

75 | }

Flexbox in CSS

It is a way to prepare and arrange elements in your HTML layout. You can align them in a particular direction, distribute them in a space and decide spacing between the elements.

Flexbox Terminologies

1. Flexbox Container: The flexbox container is the element on which we can activate flex properties and then control the children using flex.
2. Flex Items: The flex items are the elements present inside the flex container.
3. Flex Direction: Each flex container has a direction attached to it. The items inside the container are arranged in that direction only. The default direction is row. We can change it to column, column-reverse, row-reverse. Based on the direction, we have two axis defined in the container. If the direction is row then X axis is the main axis and Y axis is the cross axis. If the direction is column then X axis is the cross axis and Y axis is the main axis. To handle distribution on the X axis we use justify-content and to handle distribution on the Y axis we use align-items.
4. Flex Wrap: This property allows flex items to wrap in multiple lines.
5. Justify-Content: This property is used to align and distribute elements the flex items across the main axis. It has the following values: flex-start, flex-end, center, space-between, space-around and space-evenly.
6. Align-Items: This property is used to align and distribute elements the flex items across the cross axis. It has the following values: flex-start, flex-end, center, baseline and stretch.
7. Gap: This property is used to set the gap between the flex items.
8. Flex Flow: This property is a combination of flex-direction and flex-wrap.

Example of Flexbox

