

Lecture-4

Coding Blocks - Kartik Mathur

CSS

Class Agenda

01

CSS Types

02

CSS Selectors

03

Specificity

04

Box Model

05

Forms In Depth/Inputs

06

Units in CSS

07

Positions

Forms in depth/inputs

4



```
<!-- GET MEI INFORMATION URL MEI VISIBLE HOTI HAI -->  
<form action="https://google.com/search" method="GET">  
  <input type="text" name="q" placeholder="Enter Person Name">  
  <button type="submit">Search Google</button>  
</form>
```



Button to send request.

Becomes key in google search
(Technical Jargon is query parameter)

User input value
inside the text box
becomes value

Forms - GET request to chrome

```
<h3>Which all are programming languages?</h3>
```

```
<!-- Check boxes mei multiple select hote hai -->
```

```
<input type="checkbox" name="p1"> C
```

```
<input type="checkbox" name="p1"> C#
```

```
<br>
```

```
<input type="checkbox" name="p1"> CSS
```

```
<input type="checkbox" name="p1"> Hindi
```

Forms - Inputs Checkbox

Multiple select options is possible!

Which all are programming languages?

☒ C ☒ C#

☐ CSS ☐ Hindi



Forms - Inputs Checkbox

```
<h3>Which is not a Python based?</h3>
```

```
<!-- Radio mei single select hote hai -->
```

```
<input type="radio" name="p1-1"> Python
```

```
<input type="radio" name="p1-1"> Django
```

```
<br>
```

```
<input type="radio" name="p1-1"> Data Science
```

```
<input type="radio" name="p1-1"> C++
```

Forms - Inputs Radio

Names should be same then only it will do single select amongst these options.

Multiple select options is not possible!

Which is not a Python based?

- ☒ Python ☐ Django
☐ Data Science ☐ C++

Forms - Inputs Radio

Positions - CSS

5



- Relative
- Absolute
- Sticky
- Fixed
- Static
- Inherit

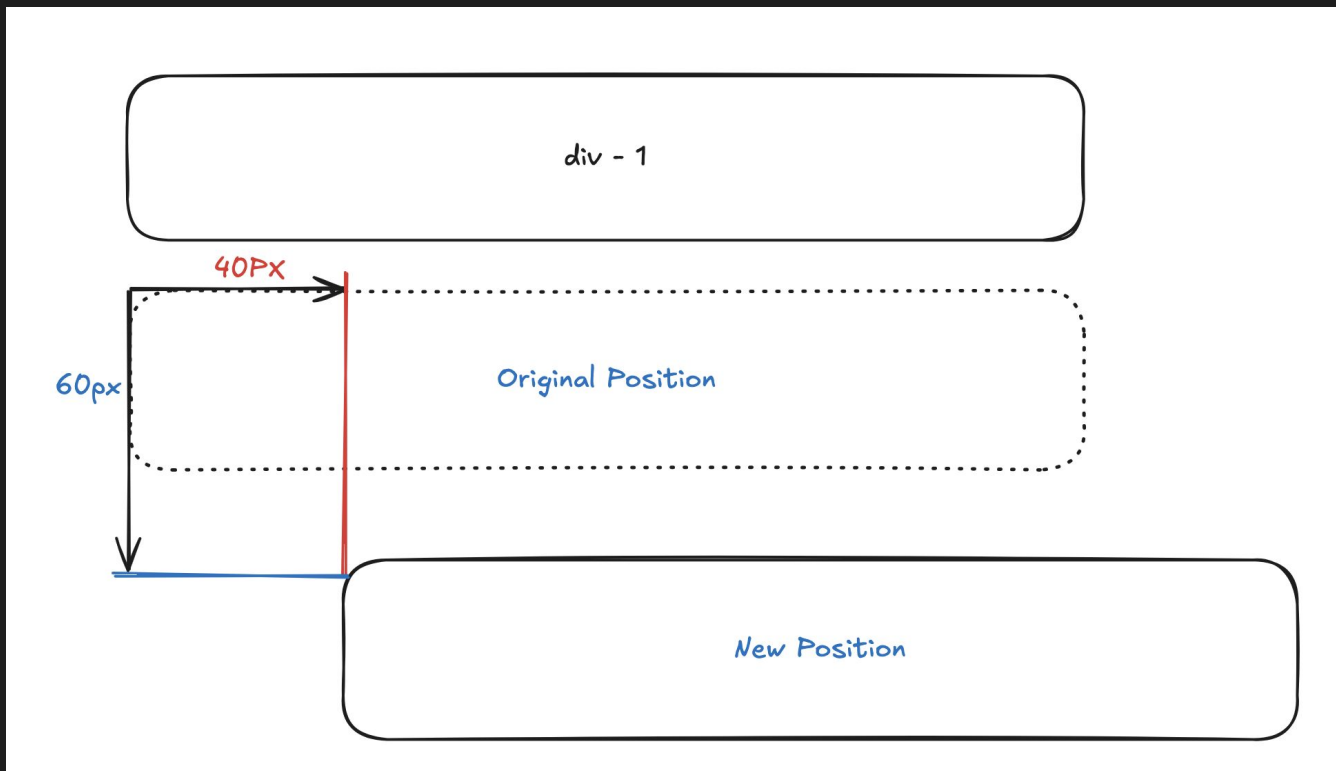
Positions - CSS

Relative

- Relative with respect to the original position of the element.
- Element would not leave its original space.

Positions - CSS

Relative



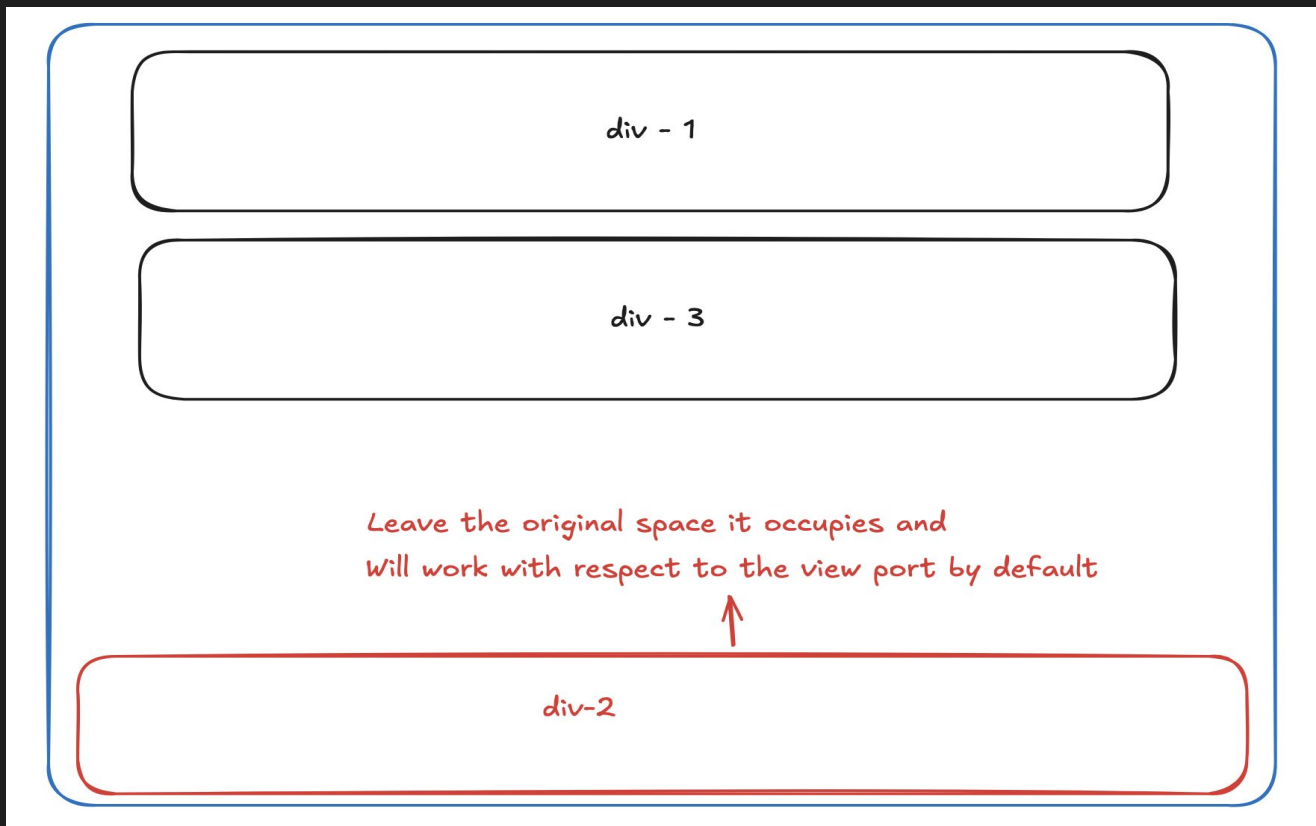
Positions - CSS

Absolute Position

- By default this works w.r.t view port.
- If any of its ancestor is position then it will work according to the ancestor.

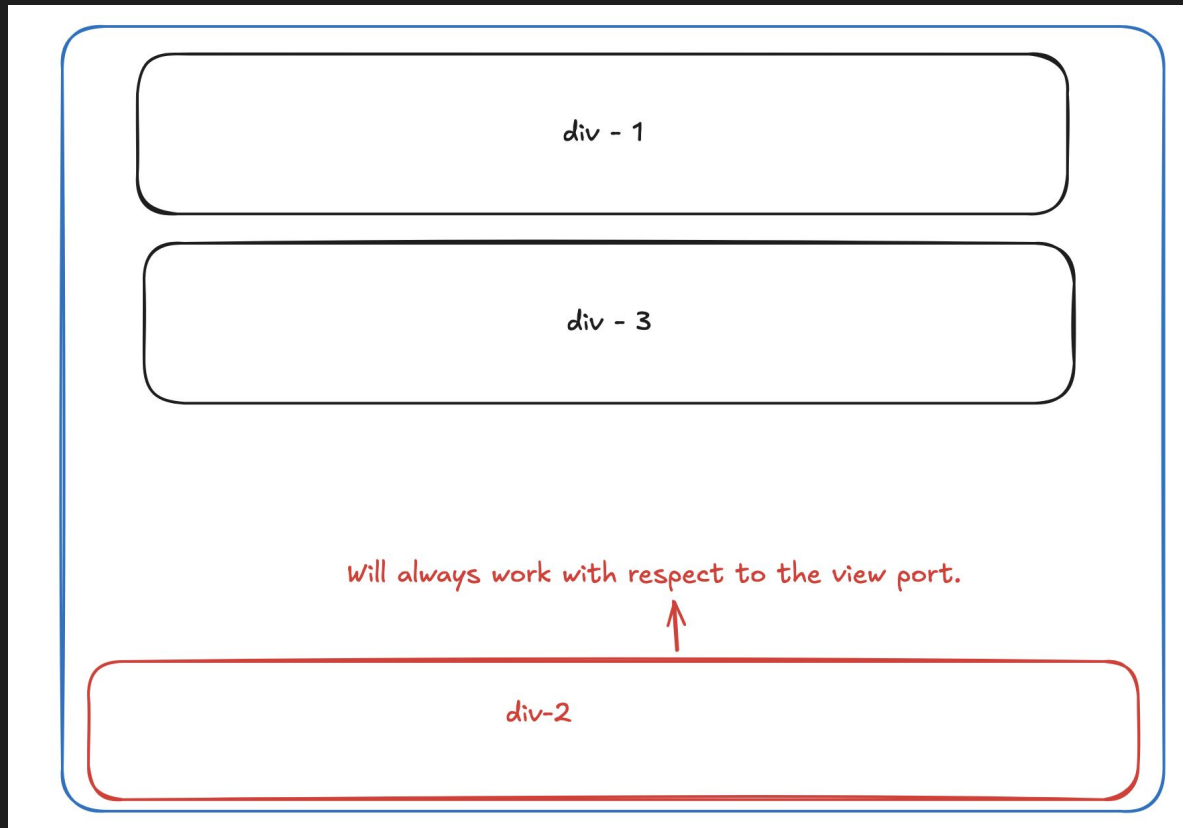
Positions - CSS

Absolute



Positions - CSS

Fixed Position



Positions - CSS

Sticky Position

The element gets stick to the position when it reach the constraints mentioned by the user.

Positions - CSS

Sticky Position

Reference to show:

[https://github.com/Kartik-Mathur/classroom-batch-resources/tree/main/Lecture-4/1 Positions/4 Sticky](https://github.com/Kartik-Mathur/classroom-batch-resources/tree/main/Lecture-4/1%20Positions/4%20Sticky)

Next is the GIF of what needs to be made.

Positions - CSS



CSS Units

Refer:

[https://github.com/Kartik-Mathur/classroom-batch-resources/tree/main/Lecture-4/2 UnitsInCSS](https://github.com/Kartik-Mathur/classroom-batch-resources/tree/main/Lecture-4/2%20UnitsInCSS)

Positions - CSS

CSS Units: vh/vw

```
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7   <style>
8     body{
9       margin: 0;
10      padding: 0;
11    }
12
13    div{
14      height: 200vh;
15    }
16  </style>
17 </head>
18 <body>
19
20   <div style="background-color: #00FFFF;">
21     I am a div
22   </div>
23 </body>
```

Positions - CSS

Flexboxes

- Flexbox (Flexible Box) is a CSS layout module designed for efficient alignment and distribution of elements.
- It enables responsive designs without using float or positioning.

Positions - CSS

Setting up Flexboxes

```
.container {  
    display: flex; /* Enables Flexbox */  
}
```

<https://css-tricks.com/snippets/css/a-guide-to-flexbox/>

Positions - CSS

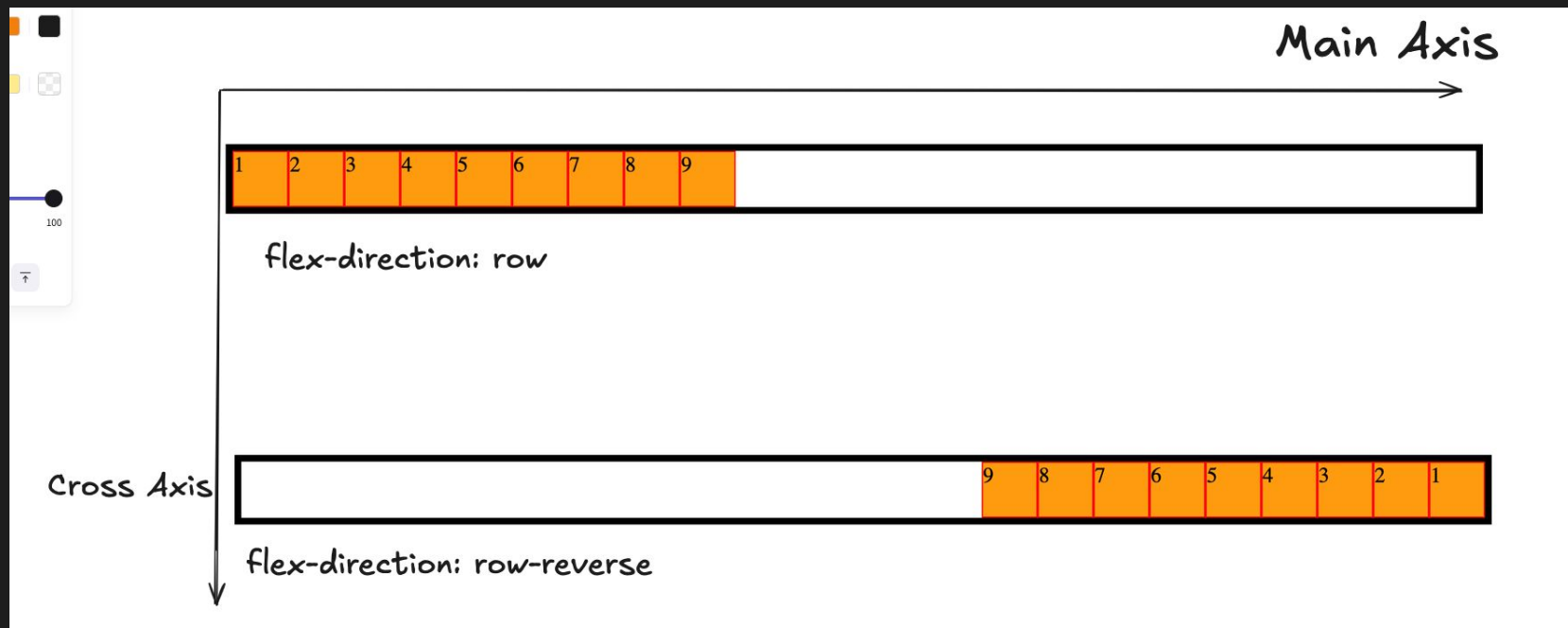
Flex directions

- Defines the direction of flex items inside a container.
- Possible values:
 - row (default) – Items arranged horizontally.
 - row-reverse – Items arranged in reverse order.
 - column – Items arranged vertically.
 - column-reverse – Items arranged in reverse vertical order

```
.container {  
    flex-direction: row-reverse;  
}
```

Positions - CSS

Flex directions



Positions - CSS

Flex Wrap

- Controls how flex items behave when there isn't enough space.
- Possible values:
 - nowrap (default) – Items stay in a single row/column.
 - wrap – Items move to the next line when necessary.
 - wrap-reverse – Items wrap in reverse order.

```
.container {  
    flex-wrap: wrap;  
}
```

Positions - CSS

Assignment - Flexboxes

FlexBox Card Layout



Card Title 1

Short description for card 1.



Card Title 2

Short description for card 2.



Card Title 3

Short description for card 3.



Card Title 4

Short description for card 4.

Positions - CSS