

MERN Stack Journey – Class 08


Bootstrap Part 2: Flexbox Utilities


Flexbox Container

The Bootstrap class `d-flex` defines a **Flexbox Container**.
The **direct children** inside a flex container are called **flex items**.

```
<div class="d-flex">
  <div>
    <h1>Tourism</h1>
    <p>Plan your trip.</p>
    <button>Get Started</button>
  </div>
</div>
```


Key Points

- Element with `d-flex` → **Flexbox Container**
- Direct child `<div>` → **Flex Item**
- Nested elements (`h1`, `p`, `button`) →  Not flex items


 Wrapping elements inside a Flexbox container is mandatory to apply flex properties.

MCQs

Q1. Which Bootstrap class defines a Flexbox Container?

- A) flex
- B) d-flex 
- C) flexbox
- D) flex-container

Q2. What are the direct children of a Flexbox Container called?

- A) flexbox container
- B) flex
- C) items
- D) flex items 

Q3. Identify the flex items:

```
<div class="d-flex">
  <div>
    <h1>Tourism</h1>
    <p>Plan your trip.</p>
```

```
</div>
</div>
```

✓ Answer:

Flex Direction

Flex direction defines **how flex items are arranged**.

Class Name	Direction
flex-row	Horizontal (default)
flex-column	Vertical

2.1 flex-row (Default)

```
<div class="d-flex flex-row">...</div>
```

2.2 flex-column

```
<div class="d-flex flex-column">...</div>
```

MCQs

Q1. Which class moves flex items horizontally?

- A) flex-column
- B) flex-row ✓
- C) flex-vertical
- D) flex-horizontal

Q2. Which class moves flex items vertically?

- A) flex-row
- B) flex-column ✓
- C) flex-horizontal
- D) flex-vertical

Q3. is the default flex direction.

✓ True

Justify Content

Controls **alignment along the main axis** (based on flex direction).

3.1 justify-content-start

Aligns items to **start**

3.2 justify-content-center

Aligns items to **center**

3.3 justify-content-end

Aligns items to **end**

3.4 justify-content-between

Adds **equal space between items**

Class	Effect
justify-content-start	Start
justify-content-center	Center
justify-content-end	End
justify-content-between	Equal space

Example

```
<div class="d-flex flex-column justify-content-end">
  <div>Content</div>
</div>
```

Mini Layout Example

```
<div class="bg-container d-flex flex-column justify-content-end">
  <div class="tourism-card">
    <h1>Tourism</h1>
    <p>Plan your trip.</p>
    <button class="button">Get Started</button>
  </div>
</div>
```

MCQs – Justify Content

Q1. Align items at the start:

A) justify-content-center

- B) justify-content-end
- C) justify-content-start ☒
- D) justify-content-between

Q2. Align items at the center:

- A) justify-content-start
- B) justify-content-center ☒
- C) justify-content-end
- D) justify-content-between

Q3. Add equal space between items:


- A) justify-content-start
- B) justify-content-center
- C) justify-content-end
- D) justify-content-between ☒

Interview Questions (Very Important)

1. What is `d-flex` in Bootstrap?
2. Difference between `flex-row` and `flex-column`?
3. What are flex items?
4. Difference between `justify-content-center` and `text-center`?
5. When do we use `justify-content-between`?

Key Takeaways

- `d-flex` enables Flexbox
- Direct children are flex items
- `flex-row` is default
- `justify-content-*` aligns along main axis
- Flexbox is heavily used in **responsive layouts & interviews**

 **Next Class:** Bootstrap Flexbox – `align-items`, `align-self`, responsive utilities