Bootstrap Cotainers :
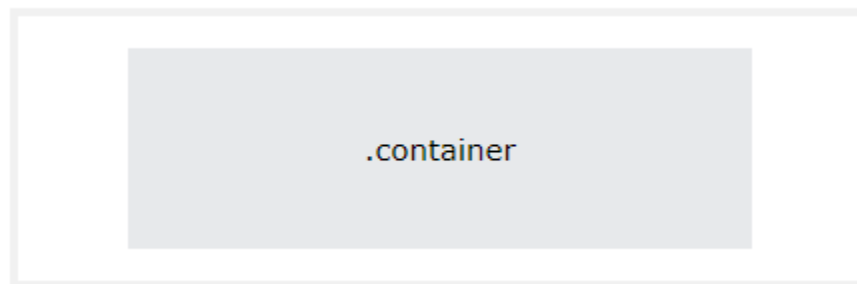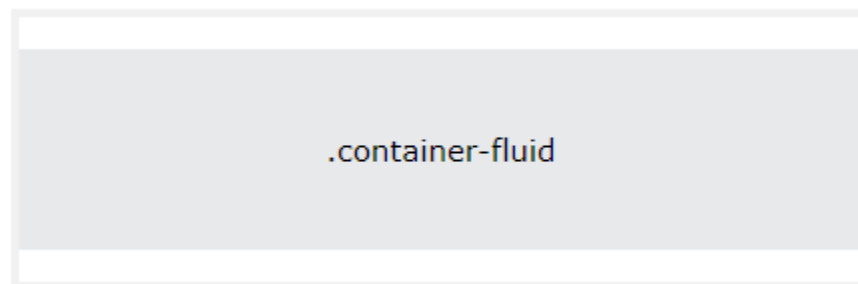
- Bootstrap 5 also requires a containing element to wrap site contents.
- There are two container classes to choose from:
  - The `.container` class provides a responsive fixed width container
  - Use the `.container` class to create a responsive, fixed-width container.
  - Note that its width (`max-width`) will change on different screen sizes:

	Extra small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	Extra Large ≥1200px	XXL ≥1400px
max-width	100%	540px	720px	960px	1140px	1320px

.container

  - The `.container-fluid` class provides a full width container, spanning the entire width of the viewport.

.container-fluid

1. Container Example :

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Bootstrap Example</title>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">
    <style>
        body{
            background-color: black;
        }
        div{
            background-color: brown;
            margin-top: 30px;
            color: white;
        }
    </style>
</head>

<body>

    <div class="container">
        <h1>Example of Container Class</h1>
        <p>This content is inside a .container class.</p>
        <p>The .container class provides a responsive fixed width container.</p>
    </div>

    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>
</body>

</html>
```

Output :

2. Container-fluid Example :

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Bootstrap Example</title>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">
    <style>
        body{
            background-color: black;
        }
        div{
            background-color: brown;
            margin-top: 30px;
            color: white;
        }
    </style>
</head>
<body>

    <div class="container-fluid">
        <h1>Example of container-fluid Class</h1>
        <p>This content is inside a .container-fluid class.</p>
        <p>The .container-fluid class provides a full width container, spanning the entire width of the viewport.</p>
    </div>

    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>
</body>
</html>
```

Output :

Example of container-fluid Class

This content is inside a .container-fluid class.

The .container-fluid class provides a full width container, spanning the entire width of the viewport.

Bootstrap 5 Grid System :

- Bootstrap's grid system is built with flexbox and allows up to 12 columns across the page.
- If you do not want to use all 12 columns individually, you can group the columns together to create wider columns:

- The grid system is responsive, and the columns will re-arrange automatically depending on the screen size.
- Make sure that the sum adds up to 12 or fewer (it is not required that you use all 12 available columns).

Grid Classes :

- The Bootstrap 5 grid system has six classes:
    - `.col-` (extra small devices - screen width less than 576px)
    - `.col-sm-` (small devices - screen width equal to or greater than 576px)
    - `.col-md-` (medium devices - screen width equal to or greater than 768px)
    - `.col-lg-` (large devices - screen width equal to or greater than 992px)
    - `.col-xl-` (xlarge devices - screen width equal to or greater than 1200px)
    - `.col-xxl-` (xxlarge devices - screen width equal to or greater than 1400px)

```
<!-- Control the column width, and how they should appear on different devices -->
<div class="row">
    <div class="col-*-*"></div>
    <div class="col-*-*"></div>
</div>

<div class="row">
    <div class="col-*-*"></div>
    <div class="col-*-*"></div>
    <div class="col-*-*"></div>
</div>

<!-- Or let Bootstrap automatically handle the layout -->
<div class="row">
    <div class="col"></div>
    <div class="col"></div>
    <div class="col"></div>
</div>
```

- First example: create a row (`<div class="row">`). Then, add the desired number of columns (tags with appropriate `.col-*-*` classes). The first star (*) represents the responsiveness: sm, md, lg, xl or xxl, while the second star represents a number, which should add up to 12 for each row.
- Second example: instead of adding a number to each `col`, let bootstrap handle the layout, to create equal width columns: two `"col"` elements = 50% width to each col, while three cols = 33.33% width to each col. Four cols = 25% width, etc. You can also use `.col-sm|md|lg|xl|xxl` to make the columns responsive.