Bootstrap Basic & Advanced

Q.1:- What are the advantages of Bootstrap?

Ans:-

Bootstrap is an open-source CSS framework designed to come up with mobile-friendly, responsive front-end web development. It consists of enormous versatile and reusable pieces of code written in HTML, JavaScript, and CSS. As a framework, fundamentals are already placed for responsive web development, and developers simply need to position the code in a premeditated grid system. Therefore, while coming up with a new website or application, Bootstrap is a boon because it waives off the burden of coding from scratch. You can efficiently blend its ready-made coding blocks, CSS-Less functionality, and cross-browser compatibility to save tedious hours of coding.

## Top 10 Advantages of Bootstrap for Web Development

### Easy initiation

### 2.Responsiveness

### 3. Highly customizable

### 4. Extremely user-centric

### 5. Top-notch support

### 6.Cross-browser compatibility

### 7. JavaScript plugins to your rescue

### 8. Far-reaching popularity

### 9. Ample documentation

### 10. Updates at the doorstep

### Q.2:- What is a Bootstrap Container, and how does it work?

Ans:-

<!DOCTYPE html>

<html>

<head>

    <meta charset="utf-8">

    <link rel="stylesheet" href=

"https://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/css/bootstrap.min.css">

    <script src=

"https://ajax.googleapis.com/ajax/libs/jquery/1.12.0/jquery.min.js">

    </script>

    <script src=

"https://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/js/bootstrap.min.js">

    </script>

</head>

<body>

    <div class="container"

        style="background-color: yellow;">

        <h1>Default-Container</h1>

        <p>

            This is the example of

            container in bootstrap

        </p>

    </div>

</body>

</html>

Q.3:- What are the default Bootstrap text settings?

Ans:-

<!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 rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">

  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.7.1/jquery.min.js"></script>

  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>

</head>

<body>

<div class="container">

  <h1>h1 Bootstrap heading (36px)</h1>

  <h2>h2 Bootstrap heading (30px)</h2>

  <h3>h3 Bootstrap heading (24px)</h3>

  <h4>h4 Bootstrap heading (18px)</h4>

  <h5>h5 Bootstrap heading (14px)</h5>

  <h6>h6 Bootstrap heading (12px)</h6>

</div>

</body>

</html>

Q.4:- What do you know about the Bootstrap Grid System?

Ans:-

<!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 rel="stylesheet" href=

"https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css">

    <script src=

"https://ajax.googleapis.com/ajax/libs/jquery/3.4.0/jquery.min.js">

    </script>

    <script src=

"https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js">

    </script>

    <script src=

"https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js">

    </script>

</head>

<body>

    <header>

        <div class="container">

            <h1 style="color: green">Bootstrap</h1>

            <strong>

                A computer Science portal

            </strong>

        </div>

    </header>

    <div class="container">

        <div class="row">

            <div class="bg bg-primary w-100">

                First row

            </div>

        </div>

        <div class="row">

            <div class="bg bg-success w-100">

                Second row

            </div>

        </div>

    </div>

    <br/>

    <div class="container">

        <div class="row">

            <div class="col-sm-4">

                <div class="well bg bg-danger">

                    1st Column

                </div>

            </div>

            <div class="col-sm-4">

                <div class="well bg bg-warning">

                    2nd Column

                </div>

            </div>

            <div class="col-sm-4">

                <div class="well bg bg-secondary">

                    3rd Column

                </div>

            </div>

        </div>

    </div>

    <footer>

        <hr />

        <div class="container">

            <p>

                <a href="https://www.pexels.com/search/full%20hd%20wallpaper/">

                    Visit

                </a>

                our website

            </p>

            <p>

                <a href="https://unsplash.com/s/photos/full-hd-wallpaper">

                    Like

                </a>

                us on facebook

            </p>

        </div>

    </footer>

</body>

</html>

Q.5:- What is the difference between Bootstrap 4 and Bootstrap 5

Ans:-

|  |  |
| --- | --- |
| **Bootstrap 4** | **Bootstrap 5** |
| It has 5 tier (xs, sm, md, lg, xl). | It has 6 tier (xs, sm, md, lg, xl, xxl). |
| It has limited colors. | Extra colors added with the looks, A card improved color palette. there are various shades available to choose. |
| It has jquery and all related plugins. | Jquery is removed and switched to vanilla JS with some working plugins. |
| Bootstrap 4 supports both IE 10 and 11. | Bootstrap 5 doesn’t support IE 10 and 11. |
| Radio buttons, checkboxes have different look in different OS and browsers. The form uses whatever default browsers provide. | The look of form elements will not change, on different OS or browser. The forms can be customized and form controls can be added, they would not depend on browser. |
| We cannot modify utilities in bootstrap 4. | Bootstrap 5 gave freedom to modify and also create our own utility. |
| We use .glutter with fontsize in px. | We use .g\* with fontsize in rem. |

Q.6:- What is a Button Group, and what is the class for a basic Button Group?

Ans:-

<!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 rel="stylesheet"

          href=

"https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">

    <script src=

"https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js">

    </script>

    <script src=

"https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js">

    </script>

    <script src=

"https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js">

    </script>

</head>

<body>

    <div class="btn-group">

        <button type="button" class="btn btn-danger">Click</button>

        <button type="button" class="btn btn-warning">Click</button>

        <button type="button" class="btn btn-success">Click</button>

    </div>

</body>

</html>

Q.7:- How can you use Bootstrap to make thumbnails?

Ans:-

<!DOCTYPE html>

<html lang="en">

  <head>

    <title>Thumbnail images</title>

    <link

      rel="stylesheet"

      href=

"http://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/css/bootstrap.min.css"/>

    <script src=

"https://ajax.googleapis.com/ajax/libs/jquery/1.12.0/jquery.min.js">

    </script>

    <script src=

"http://maxcdn.bootstrapcdn.com/bootstrap/3.3.6/js/bootstrap.min.js">

    </script>

  </head>

  <body>

    <h3 style="color: green">Bootstrap thumbnails</h3>

    <div class="row">

      <div class="col-sm-6 col-md-3">

        <a href="#" class="thumbnail">

          <img

            src=

"https://media.geeksforgeeks.org/wp-content/cdn-uploads/20210310114057/web-development-image.png"

            style="height: 100px; width: 100px"

          />

        </a>

      </div>

      <div class="col-sm-6 col-md-3">

        <a href="#" class="thumbnail">

          <img

            src=

"https://media.geeksforgeeks.org/wp-content/cdn-uploads/machineLearning3.png"

            style="height: 100px; width: 100px"

          />

        </a>

      </div>

      <div class="col-sm-6 col-md-3">

        <a href="#" class="thumbnail">

          <img

            src=

"https://media.geeksforgeeks.org/wp-content/cdn-uploads/20210202223017/Competitive-Programming-%E2%80%93-A-Complete-Guide.png"

            style="height: 100px; width: 100px"

          />

        </a>

      </div>

      <div class="col-sm-6 col-md-3">

        <a href="#" class="thumbnail">

          <img

            src=

"https://www.geeksforgeeks.org/wp-content/uploads/Java-768x256.png"

            style="height: 100px; width: 100px"

          />

        </a>

      </div>

    </div>

  </body>

</html>

Q.8:- In Bootstrap 4, what is flexbox?

Ans:-

<!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 rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">

  <script src="https://cdn.jsdelivr.net/npm/jquery@3.7.1/dist/jquery.slim.min.js"></script>

  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>

  <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>

</head>

<body>

<div class="container mt-3">

  <h2>Flex</h2>

  <p>To create a flexbox container and transform direct children into flex items, use the d-flex class:</p>

  <div class="d-flex p-3 bg-secondary text-white">

    <div class="p-2 bg-info">Flex item 1</div>

    <div class="p-2 bg-warning">Flex item 2</div>

    <div class="p-2 bg-primary">Flex item 3</div>

  </div>

</div>

</body>

</html>

Q.9:- How can one create an alert in Bootstrap?

Ans:-

<!DOCTYPE html>

<html>

<head>

    <title>Bootstrap Example</title>

    <link rel="stylesheet" href=

"https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css">

    <script src=

"https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.6/dist/umd/popper.min.js">

    </script>

    <script src=

"https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js/bootstrap.min.js">

    </script>

</head>

<body>

    <div class="container">

        <h1 style="color: green;">

            Bootstrap Alerts

        </h1>

        <h3>Example 2</h3>

        <button class="btn btn-success"

            onclick="showAlert('success')">

            Show Success Alert

        </button>

        <button class="btn btn-info"

            onclick="showAlert('info')">

            Show Info Alert

        </button>

        <button class="btn btn-warning"

            onclick="showAlert('warning')">

            Show Warning Alert

        </button>

        <button class="btn btn-danger"

            onclick="showAlert('danger')">

            Show Danger Alert

        </button>

        <div id="alertContainer"></div>

    </div>

    <script>

        function showAlert(type) {

            const cont =

                document.getElementById('alertContainer');

            while (cont.firstChild) {

                cont.removeChild(cont.firstChild);

            }

            cont.appendChild(document.createElement('br'));

            const msg =

                " This is a " +

                type + " alert.";

            const aDiv = document.createElement('div');

            aDiv.classList.

                add('alert', 'alert-' +

                    type, 'alert-dismissible',

                    'fade', 'show');

            aDiv.setAttribute('role', 'alert');

            aDiv.innerHTML =

            '<strong>' +

                type.charAt(0).toUpperCase() + type.slice(1) +

            '!</strong> ' + msg +

            `<button type="button"

                class="btn-close" data-bs-dismiss="alert"

                aria-label="Close">

            </button>`;

            cont.appendChild(aDiv);

            setTimeout(function () {

                aDiv.classList.remove('show');

            }, 3000);

        }

    </script>

</body>

</html>

Q.10:- What is a bootstrap card and how would you create one?

Ans:-

<!DOCTYPE html>

<html lang="en">

<head>

    <title>Bootstrap Card</title>

    <meta charset="utf-8">

    <meta name="viewport"

        content="width=device-width, initial-scale=1">

    <link rel="stylesheet" href=

"https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css">

    <script src=

"https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js">

    </script>

    <script src=

"https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js">

    </script>

    <script src=

"https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js">

    </script>

</head>

<body>

    <div class="container">

        <h1 style="color:green">Bootstrap</h1>

        <div class="card" style="width:200px">

            <img class="card-img-top" src=

" https://sourcebae.com/blog/mastering-react-development-7-easy-steps-to-import-bootstrap/10/ "

                alt="Card image" style="width:100%">

            <div class="card-body">

                <h4 class="card-title">Developer Guy</h4>

                <p class="card-text">

                    Developer Guy love to develop

                    front-end and back-end

                </p>

                <a href="#" class="btn btn-primary">

                    See Profile

                </a>

            </div>

        </div>

    </div>

</body>

</html>

### 