```
<!DOCTYPE html>
 <html lang="en">
  <head>
  <meta charset="UTF-8" />
  <title>iOuerv DOM elements</title>
  k rel="stylesheet" href="./assets/css/jass.css" />
  <link rel="stylesheet" href="./assets/css/style.css" />
 <body class="bg-dark text-light text-center">
  <!-- This empty '<div>' will anchor the elements
           we create with iOuerv. -->
  <div class="m-5" id="root"></div>
  <!-- Added link to the jQuery library -->
  <script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>
  <script type="text/javascript" src="./assets/js/script.js"></script>
 </html>
// Comments show the vanilla JavaScript equivalent statements
// var rootEl = document.getElementById("root");
var rootEl = \$('\#root');
// var titleEl = document.createElement("h1");
var titleEl = ('< h1>');
// titleEl.textContent = "Hello friends";
titleEl.text('Hello friends');
// titleEl.className = 'fancy';
titleEl.attr('class', 'fancy');
// titleEl.classList.add('p-5') - (`p-5` is for padding)
titleEl.addClass('p-5');
// titleEl.style.border = "rgb(122, 242, 242) 3px solid";
titleEl.css('border', 'rgb(122, 242, 242) 5px solid');
// rootEl.appendChild(titleEl);
rootEl.append(titleEl);
// titleEl.append("Welcome to iOuery"):
rootEl.append('<h2>With jQuery we can:</h2>');
var abilities = [
  'Select',
 'Create'.
  'Style',
 'Animate',
  'Traverse',
 'Event Listen',
  'much more'.
```

JQuery Elements

```
for (var i = 0: i < abilities.length: <math>i++) {
 // Create a new '<div>' for each ability and its text content
 var abilityEl = ('');
 // abilityEl.textContent = abilities[i];
 abilityEl.text(abilities[i]);
 // `my-3` class adds margin on top and bottom
 abilityEl.addClass('my-3');
 // Alternatively
 // var abilityE\dot{l} = ("<div>" + abilities[i] + "</div>");
 // Add this new '<div>' to the abilities '<div>' container element.
 rootEl.append(abilityEl);
// select all '<div>' elements on the page
// document.querySelectorAll('div');
console.log($('div'));
//Alternatively use the `$.each` method
$.each(abilities, function (i, ability) {
 var abilityEl = ("" + ability + "");
 abilityEl.click(function (e) {
  this.remove();
 });
 rootEl.append(abilityEl);
});
```

Hello friends

n to Code with...

With jQuery we can:

- Select
- Create
- Style
- Animate
- Traverse
- Event Listen
- much more

.fancy {

font-size: 60px;

width: 380px;

color: rgb(122, 242, 242);

background-color: black;

border-radius: 1rem;

margin: 1rem auto;

Click Events

```
<!DOCTYPE html>
 <html lang="en">
 <head>
  <meta charset="UTF-8" />
  <title>iQuery Click Events</title>
  link rel="stylesheet" type="text/css" href="./assets/css/jass.css" />
  link rel="stylesheet" type="text/css" href="./assets/css/style.css" />
 </head>
 <body class="bg-dark text-light">
  <main>
   <h1>Click Events!</h1>
   <hr />
   Click for an alert
   <button id="alert-btn" class="btn btn-danger">Alert</button>
   Click to toggle light theme
   <button id="theme-btn" class="btn btn-info">Toggle Theme</button>
   Click for the next winning lottery number
   <br/>
<br/>
button id="lottery-btn" class="btn btn-primary">Play Lottery</button>
   <span id="lottery-number"></span>
   <hr />
   Click to refresh page
   <button id="refresh-btn" class="btn btn-warning">
    Refresh Page
   </button>
  </main>
  <!-- Added link to the iOuerv library -->
  <script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>
  <script type="text/javascript" src="./assets/js/script.js">
  </script>
 </body>
 </html>
main {
 margin: 3rem auto;
 max-width: 90vw;
 width: 50ch;
h1 {
 font-size: 4rem:
 margin-top: 1rem;
 margin-bottom: 0.5rem;
#lottery-number {
 font-size: 2rem;
```

```
var alertButtonEl = $('#alert-btn');
var themeButtonEl = $('#theme-btn');
var lotteryButtonEl = $('#lottery-btn');
var lottervNumberEl = $('#lotterv-number'):
var refreshButtonEl = $('#refresh-btn');
// light theme state
var isDark = true;
// Click event causes alert "Hello World"
// Vanilla JS equivalent: `addEventListener`
alertButtonEl.on('click', function() {
 alert('Hello World');
});
// Click event causes alert light theme toggle
themeButtonEl.on('click', function () {
 if (isDark) {
  $('body').css({ 'background-color': '#d9e9e8',
         color: '#1a1a1a' });
  isDark = !isDark:
 } else {
  $('body').css({ 'background-color': '#1a1a1a',
         color: '#d9e9e8' });
  isDark = !isDark;
});
```

```
This page says
Hello World

Click for an alert

Alert

Click to toggle light theme

Toggle Theme

Click for the next winning lottery number

Play Lottery

34359678

Click to refresh page

Refresh Page
```

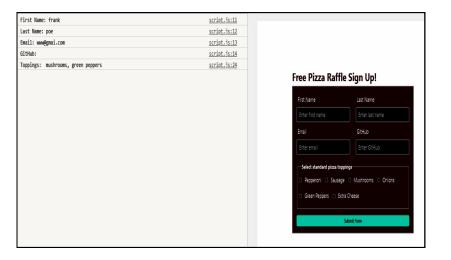
```
// Click event causes random number
lotteryButtonEl.on('click', function () {
   var random = Math.floor(Math.random()
     * 100000000) + 100000000;
   console.log(random);
   lotteryNumberEl.text(random);
});

// Click event causes refresh
refreshButtonEl.on('click', function () {
   location.reload();
});
```

Form Elements

```
<html lang="en">
<head>
 <meta charset="UTF-8" />
 <title>jQuery Pizza</title>
 link rel="stylesheet" type="text/css" href="./assets/css/jass.css">
 link rel="stylesheet" type="text/css" href="./assets/css/style.css">
</head>
<body>
 <div class="bg-dark min-100-vh flex-row align-center justify-center">
  <div class="col-11 col-sm-8">
   <h1 class="text-light">Free Pizza Raffle Sign Up!</h1>
   <div class="card rounded bg-light p-3">
    <div class="card-body">
     <form id="pizza-form">
      <div class="row">
       <div class="col-12 col-sm-6">
        <label for="first-name">First Name</label>
         <input type="text" class="form-input"
                         name="first-name" placeholder="Enter first name" />
       </div>
       <div class="col-12 col-sm-6">
        <label for="last-name">Last Name</label>
        <input type="text" class="form-input"
                         name="last-name" placeholder="Enter last name" />
       </div>
      </div>
       <div class="row">
       <div class="col-12 col-sm-6">
        <label for="email">Email</label>
         <input type="email" class="form-input"
                         name="email" placeholder="Enter email" />
       </div>
       <div class="col-12 col-sm-6">
        <label for="github">GitHub</label>
         <input type="text" class="form-input"
                         name="github" placeholder="Enter GitHub" />
       </div>
      </div>
       <fieldset class="group">
        <legend>Select standard pizza toppings</legend>
       <input type="checkbox" id="cb1" value="pepperoni" />
         <label for="cb1">Pepperoni</label>
          <input type="checkbox" id="cb2" value="sausage" />
          <label for="cb2">Sausage</label>
                                                                                     input[type='checkbox'] {
                                                                                      display: inline-block;
         <input type="checkbox" id="cb3" value="mushrooms" />
                                                                                      margin-right: 0.25rem;
          <label for="cb3">Mushrooms</label>
                                                                                     legend {
          <input type="checkbox" id="cb4" value="onions" />
          <label for="cb4">Onions</label>
                                                                                      font-weight: bold;
                                                                                      margin-left: 20px;
          <input type="checkbox" id="cb5" value="green peppers" />
          <label for="cb5">Green Peppers</label>
                                                                                     ul {
         list-style: none;
          <input type="checkbox" id="cb6" value="extra cheese" />
                                                                                      padding: 0;
          <label for="cb6">Extra Cheese</label>
        </n1>
      </fieldset>
       <button class="btn btn-block btn-danger">Submit Form</button>
                                                                                       display: inline-block;
     </form>
                                                                                      padding: 0.5rem;
    </div>
   </div>
  </div>
 </div>
                                                                                      .group {
                                                                                      margin-bottom: 1.25rem;
<!-- Added link to the jQuery library -->
 <script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>
                                                                                      margin-top: 1.25rem;
 <script type="text/javascript" src="./assets/js/script.js"></script>
                                                                                       padding: 0.125rem;
</body>
```

<!DOCTYPE html>



```
var formEl = $('#pizza-form');
var firstNameEl = $('input[name="first-name"]');
var lastNameEl = $('input[name="last-name"]');
var emailEl = $('input[name="email"]');
var githubEl = $('input[name="github"]');
function handleFormSubmit(event) {
// Prevent the default behavior
event.preventDefault();
 console.log('First Name:', firstNameEl.val());
 console.log('Last Name:', lastNameEl.val());
 console.log('Email:', emailEl.val());
 console.log('GitHub:', githubEl.val());
// Select all checked options
 var checkedEl = $('input:checked');
 var selected = [];
 // Loop through checked options to store in array
 $.each(checkedEl, function () {
  selected.push($(this).val());
 console.log('Toppings: ', selected.join(', '));
// Clear input fields
 $('input[type="text"]').val(");
$('input[type="email"]').val(");
$('input[type="checkbox"]').prop('checked', false);
// Submit event on the form
formEl.on('submit', handleFormSubmit);
```

DOM Traversal

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8"/>
 <title>Traversing the DOM</title>
 k rel="stylesheet" type="text/css" href="./assets/css/jass.css">
 link rel="stylesheet" type="text/css" href="./assets/css/style.css">
</head>
<body class="bg-dark text-light">
 <main>
  <div id="top"></div>
  <h1>Developer Community Center</h1>
  The world's leading source on
         <strong>open-sources</strong> related to web 
  <hr />
  <h2>Types of Resources</h2>
  \langle ul \rangle
   Stack Overflow
   Twitter
   id="inside">Reddit
   GitHub
  <div id="bottom"></div>
 </main>
 <!-- Added link to the jQuery library -->
 <script src="https://code.jquery.com/jquery-3.5.1.min.js"></script>
 <script type="text/javascript" src="./assets/js/script.js"></script>
</body>
</html>
                               // Select elements in the document programmatically
```

.children('li')

.addClass('bg-info text-dark mb-3 p-3');

```
Developer Community
Center

The world's leading source on open-sources related to web

Types of Resources
Stack Overflow

Twitter

Reddit

Meetups

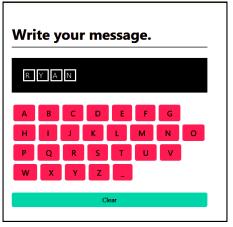
Classmates
```

```
main -
 margin: 3rem auto;
                                 // Starting from the `<div id="top">` element, place a blue border around the title of the website, Develop Community Center
 max-width: 90vw;
                                 $('#top').siblings().first().addClass('p-5').css('border', '#1bbc9b solid 2px');
 width: 50ch;
                                 // Starting from the '<div id="bottom"> element, get a list of its sibling elements and target the fifth one (the ' element),
ul {
                                          then change the text on the last item on the list to say "Meetups", not "GitHub"
 list-style-type: none;
                                 $('#bottom').siblings().eq(5).children().last().text('Meetups');
padding: 0;
                                 // Starting from `<div id="top">`, get a list of its sibling elements and target the fourth one (the `` element),
                                          and append an '' to add "Classmates" to bottom of the list as a new resource.
                                 $('#top').siblings().eq(4).append($('Classmates'));
                                 // Starting from the `` element, find the closest parent `` element and add the classes to all of its child `` elements
                                 $('#inside')
                                  .closest('ul')
```

<!DOCTYPE html> **Event Delegation** <html> <head> <meta charset="UTF-8"> <title>Message Board</title> <link rel="stylesheet" type="text/css" href="./assets/css/jass.css"> link rel="stylesheet" type="text/css" href="./assets/css/style.css"> </head> <body class="bg-dark text-light"> <main> <h1>Write your message.</h1> <hr/><!-- Message board --> <div id="display" class="my-5 bg-light text-dark p-5"></div> <!-- Show Letters button --> <button class="btn btn-lg" id="show-letters-btn">Show Letters</button> <!-- Alphabet letter buttons --> <div id="buttons" class="my-5"></div> <!-- Clear button --> <button id="clear" class="btn btn-block d-block btn-danger">Clear/button> </main> <!-- Added link to the jQuery library --> <script src="https://code.jquery.com/jquery-3.5.1.min.js"></script> <script type="text/javascript" src="./assets/js/script.js"></script> </body> </html> var displayEl = \$('#display'); var showLettersBtnEl = \$('#show-letters-btn'); var buttonListEl = \$('#buttons'); var clearEl = \$('#clear'); main { // Immediately hide the clear button margin: 3rem auto; clearEl.hide(); function renderLetters() { max-width: 90vw; var letters = ['A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I', 'J', 'K', 'L', 'M', 'N', 'O', 'P', width: 50ch; 'Q', 'R', 'S', 'T', 'U', 'V', 'W', 'X', 'Y', 'Z', '_',]; .letter { // Dynamically create buttons width: 30px: // Create a for-loop to iterate through the letters array. height: 30px; for (var i = 0; i < letters.length; <math>i++) { border-style: solid; padding: 2px; // Create button margin: 2px; var letterBtn = ('<button>');// Assign style to the button display: inline-block; letterBtn.addClass('letter-button btn btn-info'); // Assign the letter to the data-letter attribute .letter-button { letterBtn.attr('data-letter', letters[i]); margin: 0.25rem; // Display the letter font-size: 1.25rem; letterBtn.text(letters[i]); // Attach the letter element

buttonListEl.append(letterBtn);





```
// Delegate event listener to the parent element, <div id="buttons">
buttonListEl.on('click', '.letter-button', function (event) {
 var displayLetterEl = \$(' < div >');
 displayLetterEl.addClass('letter');
 // get letter from clicked letter button's
           'data-letter' attribute and use it for display
 displayLetterEl.text($(event.target).attr('data-letter'));
 displayEl.append(displayLetterEl);
// Renders the letter buttons on click
showLettersBtnEl.on('click', function () {
 // render letters
 renderLetters():
 // hide show letters button
 showLettersBtnEl.hide();
 // display clear button
 clearEl.show();
// Clears the message board of letters on click
clearEl.on('click', function () {
 displayEl.empty();
});
```

Bootstrap Components





```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport"
     content="width-device-width, initial-scale=1.0">
<meta http-equiv="X-UA-
Compatible" content="ie=edge">
<meta name="Description"
     content="Enter your description here" />
link rel="stylesheet"
     href="https://cdnjs.cloudflare.com/ajax/libs/
     twitter-bootstrap/4.5.0/css/bootstrap.min.css">
<title>Bootstrap UI Components</title>
<body>
<main class="d-flex min-vh-100">
  <div class="container-fluid my-auto">
   <h1 class="display-3 text-center">
         Bootstrap UI Components</h1>
   <div class="row justify-content-center">
    <div class="col-12 col-md-9 p-4 bg-dark">
     <div class="row">
       <div class="col-12 col-md-4">
       <a href="./component-navbar.html"
         class="btn btn-block p-3 my-2 btn-success">
             Navbar</a>
       </div>
       <div class="col-12 col-md-4">
       <a href="./component-card.html"
          class="btn btn-block p-3 my-2 btn-danger">
            Cards</a>
       </div>
       <div class="col-12 col-md-4">
       <a href="./component-form.html"
            class="btn btn-block p-3 my-2 btn-info">
            Forms</a>
       </div>
     </div>
    <div class="col-12 mt-3 text-center">
     <h4>This entire page is built with Bootstrap
           </h4>
    </div>
   </div>
```

</div>

</main>

</body>

```
<!DOCTYPE html>
<html lang="en">
   <meta name="Description" content="Enter your description here" />
   <title>Cards // Bootstrap UI Components</title>
<br/>

   <main class="d-flex min-vh-100 bg-dark">
<div class="container-fluid my-auto">
        <h1 class="display-2 text-center text-light">Cards</h1>
         <div class="row justify-content-center"
           <div class="col-12 col-sm-6 col-md-3 mb-3">
              <div class="card">
                 <h4 class="card-header">This is a card header.</h4>
                 <img src="https://placehold.it/400"
                                     alt="The placeholder image helps demonstrate this card component"
                class="card-img-top"/>
<div class="card-body">

                     Lorem, ipsum dolor sit dolorem tempore?
                   <button class="btn btn-primary btn-block">Read more.</button>
                </div>
            </div>
            <div class="w-100"></div>
            <div class="col-12 col-sm-6 mb-3">
              <div class="card">
                 <div class="row no-gutters">
                   <div class="col-12 col-md-4">
                      <img src="https://placehold.it/400"
                                           alt="The placeholder image helps demonstrate this card component"
                       class="card-img">
                   <div class="col-12 col-md-8">
                      div class="card-body">
<h5 class="card-title">Card title</h5>

                            This is a wider card with supporting text below as a natural lead-in to
                        additional content. This content is a little bit longer.
<small class="text-muted">
                        Last updated 3 mins ago</small>
<br/>
<br/>
<br/>
dutton class="btn btn-success">Read more.</br>
                   </div>
             </div>
            <div class="col-12 text-center">
              <h6><a href="./index.html">&larr; Go Back</a></h6>
        </div>
   </main>
<script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.5.1/jquery.slim.min.js">
<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.1/umd/popper.min.js">
<script src="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/4.5.0/</p>
is/bootstrap.min.is"></script>
```



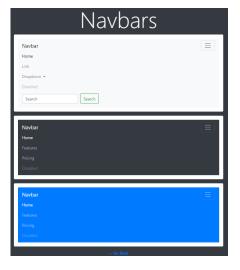
</html>

```
<!DOCTYPE html>
<html lang="en">
  <meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<meta http-equiv="X-UA-Compatible" content="ie=edge">
 <meta name="Description" content="Enter your description here" />
  link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/
                               twitter-bootstrap/4.5.0/css/bootstrap.min.css">
 <title>Forms // Bootstrap UI Components</title>
</head>
<body>
<!-- Bootstrap provides ready to use classes to style elements -->
  <main class="d-flex min-vh-100 bg-dark">
     <div class="container-fluid my-auto">
        <h1 class="display-2 text-center text-light">Forms</h1>
         <div class="row justify-content-center">
             <div class="col-12 col-md-10 mb-3 p-4 bg-white">
                     <div class="form-group">
                       <a href="label-for="email-input">Email address</a>/label>
                        <input type="email" class="form-control"
                                                          id="email-input" aria-describedby="emailHelp">
                        <small id="emailHelp" class="form-text text-muted">
                                                         We'll never share your email with anyone
                          else.</small>
                     </div>
                     <div class="form-group">
                       <label for="password-input">Password</label>
                       <input type="password" class="form-control" id="password-input">
                    <div class="form-group">
                       <a href="label-form"><label-form"><label-form</a> | Sear |
                       <select class="form-control" id="exampleFormControlSelect1">
                            <option>1</option>
                            <option>2</option>
                            <option>3</option>
                            <option>4</option>
                           <option>5</option>
                       </select>
                     </div>
                     <div class="form-group">
                        <a href="label-form"><a href="
                                                         Example multiple select</label>
                       <select multiple class="form-control"
                                                         id="exampleFormControlSelect2">
                           <option>1</option>
                           <option>2</option>
                           <option>3</option>
                            <option>4</option>
                           <option>5</option>
                       </select>
                    </div>
                    <div class="form-group">
                       <label for="exampleFormControlTextarea1">Example textarea</label>
                                                           id="exampleFormControlTextarea1" rows="3"></textarea>
                    </div>
                    <div class="form-group form-check">
                       <input type="checkbox" class="form-check-input"
id="newsletter-input">
                       <label class="form-check-label" for="newsletter0input">
                                                             Sign up for our newsletter.</label>
                    <button type="submit" class="btn btn-primary">Submit</button>
                </form>
             </div>
```

Bootstrap Components 2

```
<!DOCTYPE html>
                                                                              </11/>
                                                                              <form class="form-inline my-2 my-lg-0">
<html lang="en">
<head>
                                                                               <input class="form-control mr-sm-2" type="search"
                                                                                           placeholder="Search" aria-label="Search">
<meta charset="UTF-8">
<meta name="viewport"
                                                                               <button class="btn btn-outline-success my-2 my-sm-0"</pre>
          content="width=device-width, initial-scale=1.0">
                                                                                           type="submit">Search</button>
<meta http-equiv="X-UA-Compatible" content="ie=edge">
                                                                              </form>
<meta name="Description" content="Enter your description here" />
                                                                             </div>
<!-- Link to Bootstrap's CDN -->
                                                                            </nav>
link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/
                                                                           </div>
          twitter-bootstrap/4.5.0/css/bootstrap.min.css">
                                                                           <!-- Simplified Nav with Dark Theme -->
<title>Navbar // Bootstrap UI Components</title>
                                                                           <div class="col-12 col-md-10 mb-3 p-3 bg-white rounded">
</head>
                                                                            <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
<body>
                                                                             <a class="navbar-brand" href="#">Navbar</a>
<!-- Bootstrap provides ready to use classes to style elements -->
                                                                             <button class="navbar-toggler" type="button"</pre>
<main class="d-flex min-vh-100 bg-dark">
                                                                                           data-toggle="collapse" data-target="#dark-nav"
  <div class="container-fluid my-auto">
                                                                              aria-controls="dark-nav" aria-expanded="false"
   <h1 class="display-2 text-center text-light">Navbars</h1>
                                                                                           aria-label="Toggle navigation">
   <div class="row justify-content-center">
                                                                              <span class="navbar-toggler-icon"></span>
    <!-- Default Navbar -->
                                                                             </button>
    <div class="col-12 col-md-10 mb-3 p-3 bg-white rounded">
                                                                             <div class="collapse navbar-collapse" id="dark-nav">
     <nav class="navbar navbar-expand-lg navbar-light bg-light">
                                                                              ul class="navbar-nav">
      <a class="navbar-brand" href="#">Navbar</a>
                                                                               class="nav-item active">
      <button class="navbar-toggler" type="button"</pre>
                                                                                <a class="nav-link" href="#">Home
          data-toggle="collapse" data-target="#navbar-default"
                                                                                           <span class="sr-only">(current)</span></a>
       aria-controls="navbar-default" aria-expanded="false"
          aria-label="Toggle navigation">
                                                                               class="nav-item">
       <span class="navbar-toggler-icon"></span>
                                                                                <a class="nav-link" href="#">Features</a>
      </button>
                                                                               <div class="collapse navbar-collapse" id="navbar-default">
                                                                               class="nav-item">
       <a class="nav-link" href="#">Pricing</a>
         class="nav-item active">
                                                                               <a class="nav-link" href="#">Home
                                                                               class="nav-item">
                                                                                <a class="nav-link disabled" href="#" tabindex="-1"
                    <span class="sr-only">(current)</span></a>
         aria-disabled="true">Disabled</a>
         class="nav-item">
                                                                               <a class="nav-link" href="#">Link</a>
                                                                              </div>
         class="nav-item dropdown">
                                                                            </nav>
          <a class="nav-link dropdown-toggle"
                                                                           </div>
                    href="#" id="navbarDropdown" role="button"
                                                                           <!-- Blue Navbar - right justified -->
                    data-toggle="dropdown"
                                                                           <div class="col-12 col-md-10 mb-3 p-3 bg-white rounded">
                     aria-haspopup="true" aria-expanded="false">
                                                                            <nav class="navbar navbar-expand-lg navbar-dark bg-primary">
                     Dropdown
                                                                             <a class="navbar-brand" href="#">Navbar</a>
                                                                             <button class="navbar-toggler" type="button"</pre>
          <div class="dropdown-menu"
                                                                                           data-toggle="collapse" data-target="#blue-nav"
                    aria-labelledby="navbarDropdown">
                                                                              aria-controls="blue-nav" aria-expanded="false"
           <a class="dropdown-item" href="#">Action</a>
                                                                                           aria-label="Toggle navigation">
           <a class="dropdown-item" href="#">Another action</a>
                                                                              <span class="navbar-toggler-icon"></span>
           <div class="dropdown-divider"></div>
                                                                             </button>
           <a class="dropdown-item"
                                                                             <div class="collapse navbar-collapse" id="blue-nav">
                    href="#">Something else here</a>
                                                                              ul class="navbar-nav ml-auto">
          </div>
                                                                               class="nav-item active">
                                                                                <a class="nav-link" href="#">Home
         class="nav-item">
                                                                                           <span class="sr-only">(current)</span></a>
          <a class="nav-link disabled" href="#" tabindex="-1"
                                                                               aria-disabled="true">Disabled</a>
```

```
class="nav-item">
          <a class="nav-link" href="#">Features</a>
         class="nav-item">
          <a class="nav-link" href="#">Pricing</a>
         class="nav-item">
          <a class="nav-link disabled" href="#" tabindex="-1"
                     aria-disabled="true">Disabled</a>
         </div>
      </nav>
    </div>
    <div class="col-12 text-center">
     <!-- back btn -->
     <h6><a href="./index.html">&larr; Go Back</a></h6>
   </div>
  </div>
 </main>
</body>
<script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.5.1/</pre>
                     jquery.slim.min.js"></script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.1/</pre>
                     umd/popper.min.js"></script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/4.5.0/</pre>
                     is/bootstrap.min.js"></script>
</html>
```



Bootstrap Layout

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <meta http-equiv="X-UA-Compatible" content="ie=edge">
<meta name="Description" content="Enter your description here" />
</p
              css/bootstrap.min.css">
<title>Bootstrap Layouts</title>
</head>
<body>
<!-- Page margins are created using the container and container-fluid classes --> 
<header class="container-fluid bg-dark text-light mb-5 p-3">
 <div class="d-flex align-items-center">
   <h1>I ayouts with Bootstrap</h1>
   <h3 class="ml-auto">
   Even this is a layout
   </h3>
  </div>
 </header>
<!-- Two column layout -->
 <section class="container my-5">
    -- Use row class to create row in the container -->
  <div class="row">
   <!-- Use col-* classes for different column sizes on different screens -->
   <div class="col-12 col-md-8 col-xl-9">
    <h3>Main Content</h3>
    <a href="https://www.energenes.com/s/9/12">https://www.energenes.com/s/9/12</a> columns on medium screens, 12/12 (full-width) on small
     screens</h5>
     Lorem, ipsum dolor sit amet consectetur adipisicing elit. Maiores blanditiis temporibus facilis cumque
     corporis illum, in dolorum? 
   </div>
   <div class="col-12 col-md-4 col-xl-3">
    <h3>Sidebar Content</h3>
    Spans 3 / 12 columns on large screens
     Spans 4 / 12 columns on medium screens
     Spans 12 / 12 (full-width) on smaller screens
   </div>
 </div>
 </section>
 <!-- Four column layout -->
 <section class="container my-5 bg-dark text-light">
  <div class="row">
   <div class="col-12 col-md-6 col-lg-3">
    <h3>Title</h3>
    <h5>3/12 columns on large, 6/12 columns on medium, full-width on small</h5>
    Lorem ipsum dolor sit, amet consectetur adipisia perferendis error
               quaerat, nulla minus, quam libero in ab obcaecati voluptate modieius?
   <div class="col-12 col-md-6 col-lg-3">
    <h3>Title</h3>
    <h5>3/12 columns on large, 6/12 columns on medium, full-width on small</h5>
    Lorem ipsum dolor sit, amet consectetur adipisicing elit. Fugiat , debitis a perferendis error
               quaerat, nulla minus, quam libero in ab obcaecati hic ipsum voluptate modieius?
   </div>
   <div class="col-12 col-md-6 col-lg-3">
    <h3>Title</h3>
    <h5>3/12 columns on large, 6/12 columns on medium, full-width on small</h5>
    Lorem ipsum dolor sit, amet consectetur us, quam libero in ab obcaecati praesentium hic ipsum
              possimus voluptate modeius?
   </div>
   <div class="col-12 col-md-6 col-lg-3">
    <h5>3/12 columns on large, 6/12 columns on medium, full-width on small</h5>
    Lorem ipsum dolor sit, amet consectetur adipisicing elit. Fugiat perspiciatis, debitis a
               perferendis ereius?
   </div>
 </div>
 </section>
 <!-- Centered one column layout -->
 <section class="container my-5">
  <div class="row justify-content-center">
   <div class="col-12 col-sm-8 col-lg-6">
    <h3>Centered Content</h3>
    <h5>6/12 columns on large, 8/12 columns on smaller screens, 12/12 on phone</h5>
     Lorem ipsum dolor sit amet similique unde eos autem laboriosam. Deleniti dolorum,
               provident minima autem debitis a soluta blanditiis reprehenderit velit?
   </div>
 </div>
 </section>
```

```
<!-- Two column layout with a grid in the left column -->
<section class="container my-5 bg-dark text-light">
 <div class="row">
  <div class="col-12 col-md-8 col-xl-9">
   <h3>Main Content</h3>
   <h5>9/12 columns on large screens, 8/12 columns on medium screens, 12/12 (full-width) on small
    screens</h5>
   <div class="row">
    <div class="col-12 col-md-6 col-lg-4">
       Lorem, ipsum dolor sit illum, in dolorum? Ad, sed nulla adipisci vel repellendus facere hic rerum
              veritatis quiareprehenderit velit?
     </div>
     <div class="col-12 col-md-6 col-lg-4">
       Lorem, ipsum dolor sit amet, sed nulla adipisci vel repellendus facere hic rerum veritatis
              quia reprehenderit velit?
     </div>
     <div class="col-12 col-md-6 col-lg-4">
      Lorem, ipsum dolor sit amet facilis cumque corporis illum, in dolorum? Ad, sed nulla hic rerum veritatis quia reprehenderit velit?
     <div class="col-12 col-md-6 col-lg-4">
      Lorem, ? Ad, sed nulla adipisci vel repellendus facere hic rerum veritatis
              quia reprehenderit velit?
      </div>
     <div class="col-12 col-md-6 col-lg-4">
      Lorem, ipsum dolor sit amet corporis illum, in dolorum? Ad, sed nulla adipisci vel repellendus
              facere hic rerum veritatis quia reprehenderit velit?
      </div>
     <div class="col-12 col-md-6 col-lg-4">
       Lorem, ipsum dolor sit dolorum? Ad, sed nulla adipisci vel repellendus facere hic rerum
               veritatis quia reprehenderit velit?
    </div>
   </div>
  </div>
  <div class="col-12 col-md-4 col-xl-3">
   <h3>Sidebar Content</h3>
```

ul>

</div>

</div>

</section>

</body>

</html>

Spans 3 / 12 columns on large screens

Spans 4 / 12 columns on medium screens

Spans 12 / 12 (full-width) on smaller screens

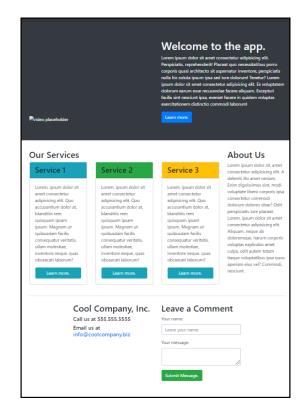
Main Content 9/12 columns on large screens, 8/12 columns on medium screens, 12/12 (full-width) on zamal screens Lower, (purn dolor at areat consecteur adignicing elft. Maiores blandfain temporibus facilis cumque corporis illum, in distinum? Ad, sed rullu adignici vel repetiendus facere hic rerum veritatis quia repretenderit velt2 Title 3/12 columns on large, 6/12 columns on large, 6/

Spans 12 / 12 (full-w

Bootstrap Utilities

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <meta http-equiv="X-UA-Compatible" content="ie=edge">
 <meta name="Description" content="Enter your description here" />
 </l></l></
             css/bootstrap.min.css">
 <title>Bootstrap Utilities</title>
</head>
<body>
<!-- Bootstrap uses color utility classes to set colors for text and background colors -->
 <header class="jumbotron jumbotron-fluid bg-dark text-light">
  <div class="container">
   <!-- Use align-items utilities on flexbox containers
             to align to start, end, center, baseline, or stretch -->
   <div class="row align-items-end">
    <div class="col-12 col-md-6">
     <img class='img-fluid' src="https://placehold.it/1920x1080" alt="video placeholder" />
    </div>
    <div class="col-12 col-md-6">
     <h1>Welcome to the app.</h1>
     Lorem ipsum dolor sit amet consectetur Excepturi facilis sint nesciunt ipsa, eveniet
             facere in quidem exercitationem distinctio commodi laborum!
     <br/>
<br/>
button class="btn btn-primary">Learn more.</br/>
/button>
    </div>
   </div>
  </div>
 </header>
 <main class="container">
  <!-- Bootstrap spacing utilities use m- for margin and p- for padding -->
  <section class="row my-4">
   <div class="col-12 col-md-9">
    <h2>Our Services</h2>
    <!-- Use justify-content utilities to change alignment of flex items on the main axis --> <section class="row justify-content-around">
     <div class="col-12 col-sm-6 col-lg-4 mb-3">
      <div class="card">
        <h3 class="card-header bg-info">
        Service 1
        </h3>
        <div class="card-body">
         Lorem, ipsum dolor sit amet consectetur adipisicing elit. Quo accusantium dolor at,
             Ipsam molestiae, Inventore laborum?
         <button class="btn btn-block btn-info">Learn more.</button>
        </div>
      </div>
     </div>
     <div class="col-12 col-sm-6 col-lg-4 mb-3">
      <div class="card">
        <h3 class="card-header bg-success">
        Service 2
        </h3>
        <div class="card-body">
         Lorem, ipsum dolor sit amet consectetur adipisicing elit. Quo accusantium ullam
             molestiae, obcaecati laborum?
         <button class="btn btn-block btn-info">Learn more.</button>
       </div>
      </div>
     </div>
      <div class="col-12 col-sm-6 col-lg-4 mb-3">
      <div class="card">
        <h3 class="card-header bg-warning">
        Service 3
        </h3>
        <div class="card-body">
         Lorem, ipsum dolor sit amet consectetur adipisicing elit. Quo accusantium
             dolor at, ipsam ipsum. Magnam ut quibusdam facilis consequatur veritatis, ullam
             molestiae, inventore obcaecati laborum?
```

```
<button class="btn btn-block btn-info">Learn more.</button>
        </div>
      </div>
     </div>
    </section>
   </div>
   <div class="col-12 col-md-3">
    <h2>About Us</h2>
         Lorem, ipsum dolor sit amet consectetur adipisicing elit. Quo accusantium
             dolor at, ipsam ipsum. Magnam ut quibusdam facilis consequatur veritatis, ullam
              molestiae, inventore obcaecati laborum?
         Lorem, ipsum dolor sit amet consectetur adipisicing elit. Quo accusantium
              dolor at, ipsam ipsum. Magnam ut quibusdam facilis consequatur veritatis, ullam
             molestiae, inventore obcaecati laborum?
  </div>
  </section>
  <hr />
  <section class="row justify-content-center my-4">
   <div class="col-12 col-sm-6 col-md-4">
    <address>
     <h2>Cool Company, Inc.</h2>
     <h5>
      Call us at <a href="tel:555.555.555"></a>555.555.555</a>
     </h5>
      Email us at <a href="mailto:info@coolcompany.biz">info@coolcompany.biz</a>
    </address>
   <div class="col-12 col-sm-6 col-md-4">
    <h2>Leave a Comment</h2>
    <form>
     <div class="form-group">
      <label for="name-input">Your name:</label>
      <input type="text" class="form-control" id="name-input" ]</pre>
             placeholder="Leave your name" />
     </div>
     <div class="form-group">
      <a href="label-for="comment-input">Your message:</a><a href="label">label</a>
      <textarea name="comment" id="comment-input" class="form-control"></textarea>
     </div>
     <button class="btn btn-success">Submit Message.</button>
    </form>
  </div>
  </section>
</main>
</body>
</html>
```



Bootstrap Extend

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <meta http-equiv="X-UA-Compatible" content="ie=edge">
 <meta name="Description" content="Enter your description here" />
 css/bootstrap.min.css">
 <link rel="stylesheet" href="./assets/css/style.css">
 <title>Extending Bootstrap</title>
</head>
<body>
 <!-- create and apply a custom class name "custom-navbar" -->
 <nav class="navbar navbar-expand-lg custom-navbar">
   <a class="navbar-brand" href="#">Navbar</a>
   <button class="navbar-toggler" type="button" data-toggle="collapse"</pre>
                 data-target="#navbar" aria-controls="navbar"
      aria-expanded="false" aria-label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbar">
      <div class="navbar-nav ml-auto">
         <a class="nav-item nav-link" href="#">Home</a>
        <a class="nav-item nav-link" href="#">Features</a>
        <a class="nav-item nav-link" href="#">Pricing</a>
      </div>
   </div>
 </nav>
 <!-- create an apply a custom class name "custom-jumbotron" -->
 <section class="jumbotron jumbotron-fluid custom-jumbotron">
    <div class="container">
      <h1>
        Welcome to the site!
      </h1>
      Lorem, ipsum dolor sit amet consectetur adipisicing elit. Assumenda optio expedita
                  consequentur odio eius distinctio, quaerat molestias autem rerum.
      <but><br/>button class="btn btn-lg custom-btn"></br>
        Learn more!
      </button>
    </div>
 </section>
</body>
<script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.5.1/jquery.slim.min.js"></script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.1/umd/popper.min.js"></script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/4.5.0/js/bootstrap.min.js"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script>
</html>
```



```
:root {
 --blue: #0c3559:
--darkblue: #092640;
--seablue: #687b8c;
--lightseablue: #aab9bf;
--light: #f2f2f2;
.custom-navbar {
background-color: var(--darkblue);
.custom-navbar a {
font-size: 1.5rem;
 color: var(--lightseablue);
.custom-navbar a:hover {
color: var(--light);
.custom-jumbotron {
background-color: var(--seablue);
 color: var(--darkblue);
.custom-btn {
background-color: var(--light);
 color: var(--blue);
.custom-btn:hover {
background-color: var(--darkblue);
color: var(--light);
```

Google Font

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <meta http-equiv="X-UA-Compatible" content="ie=edge">
 <meta name="Description" content="Enter your description here" />
 <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap</pre>
       /4.5.0/css/bootstrap.min.css">
 link href="https://fonts.googleapis.com/css2?family=Titillium+
               Web:ital,wght@0,400;0,700;1,200&display=swap"
       rel="stylesheet">
 <link rel="stylesheet" href="./assets/css/style.css">
 <title>Google Fonts</title>
</head>
<body>
 <div class="jumbotron jumbotron-fluid bg-dark text-light">
  <div class="container text-center">
   < h1 >
    Header with a custom font.
   </h1>
  </div>
 </div>
 <div class="container my-4">
  <div class="row justify-content-center">
   <div class="col-12 col-sm-10 col-md-6">
    <h2>Subheader with the same custom font.</h2>
    <h4 class="byline">This is a byline.</h4>
     Lorem ipsum dolor sit amet consectetur adipisicing elit. Officiis fuga animi
       numquam. Omnis placeat officia numquam ullam nemo at deserunt.
    </div>
  </div>
 </div>
</body>
</html>
```

Header with a custom font.

Subheader with the same custom font.

This is a byline.

Lorem ipsum dolor sit amet consectetur adipisicing elit. Officiis fuga animi numquam. Omnis voluptates ad fugiat mollitia placeat officia numquam ullam molestias illum porro, qui, ratione, cumque nemo at deserunt.

```
body {
  font-family: 'Titillium Web', sans-serif;
  font-size: 16px;
}
h1,
h2,
h3,
h4,
h5,
h6 {
  font-weight: 700;
}
.byline {
  font-weight: 200;
  font-style: italic;
}
```

jQuery UI Widgets

```
<!DOCTYPE html>
<!-- Resulting code after Instructor Demo -->
<html lang="en">
 <head>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <!-- Changed to our own stylesheet -->
  <link rel="stylesheet" href="./assets/css/style.css" />
  <!-- Added Bootstrap -->
  link
   rel="stylesheet"
   href="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/4.5.0/css/bootstrap.min.css"
  />
  link
   rel="stylesheet"
   href="https://code.jquery.com/ui/1.12.1/themes/base/jquery-ui.css"
  <!-- Changed title -->
  <title>jQuery UI Widgets</title>
 </head>
 <body>
  <!-- Added body content -->
  <div class="jumbotron jumbotron-fluid bg-info text-light">
   <div class="container text-center">
    <h1>
     jQuery UI Widgets
    </h1>
   </div>
  </div>
  <div class="container my-4">
    <div class="row justify-content-center">
    <div class="col-12 col-sm-10 col-md-6">
      <h2>Basic Dialog Widget</h2>
      <h4 class="byline">Open content in an interactive overlay.</h4>
      The basic dialog window is an overlay positioned within the viewport
       and is protected from page content (like select elements) shining
       through with an iframe. It has a title bar and a content area, and
       can be moved, resized and closed with the 'x' icon by default.
     >
       To learn more, visit
       <a href="https://jqueryui.com/dialog/"
        >https://jqueryui.com/dialog/</a>
      </div>
   </div>
  </div>
  <div id="dialog" title="Dialog">
    This is the default dialog which is useful for displaying information.
    The dialog window can be moved, resized and closed with the 'x' icon.
    </div>
 </body>
 <!-- Moved jQuery <script> tags -->
 <script src="https://code.jquery.com/jquery-1.12.4.js"></script>
 <script src="https://code.jquery.com/ui/1.12.1/jquery-ui.js"></script>
 <script>
  $(function () {
   $('#dialog').dialog();
 </script>
</html>
```

```
<!DOCTYPE html>
<!-- From the ¡Query UI Dialog Docs. To be used as starter code -->
<html lang="en">
 <head>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <!-- Change the title -->
  <title>jQuery UI Dialog - Default functionality</title>
  link
   rel="stylesheet"
   href="https://code.jquery.com/ui/1.12.1/themes/base/jquery-ui.css"
  <!-- Change to our own stylesheet -->
  <link rel="stylesheet" href="/resources/demos/style.css" />
  <!-- Add Bootstrap -->
  <!-- Move the jQuery <script> tags to the bottom -->
  <script src="https://code.jquery.com/jquery-1.12.4.js"></script>
  <script src="https://code.jquery.com/ui/1.12.1/jquery-ui.js"></script>
  <script>
   $(function () {
    $('#dialog').dialog();
  </script>
 </head>
 <body>
  <!-- Change body content -->
  <div id="dialog" title="Basic dialog">
    This is the default dialog which is useful for displaying information.
    The dialog window can be moved, resized and closed with the 'x' icon.
   </div>
 </body>
<!-- See index.html file for the resulting code -->
</html>
```

jQuery UI Widgets

Basic Dialog Widget

Open content in an interactive overlay.

The basic dialog window is an overlay positioned within the viewport and is protected from page content (like select elements) shining through with an iframe. It has a title bar and a content area, and can be moved, resized and closed with the 'x' icon by default.

To learn more, visit https://jqueryui.com/dialog/



```
font-family: 'Titillium Web', sans-serif; font-size: 16px; } h1, h2, h3, h4, h5, h6 { font-weight: 700; text-align: center; } .byline { font-weight: 200; font-style: italic;
```

jQuery UI Interactions

```
<!DOCTYPE html>
<!-- Resulting code after Instructor Demo -->
<html lang="en">
 <head>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <!-- Changed title -->
  <title>jQuery UI Sortable</title>
  link
   rel="stylesheet"
   href="https://code.jquery.com/ui/1.12.1/themes/base/jquery-ui.css"
  <!-- Imported our own custom stylesheet -->
  <link rel="stylesheet" href="./assets/css/style.css" />
 </head>
 <body>
  <!-- Added body content -->
  <h1>iQuery UI Interactions - Sortable</h1>
  <h2>What are you most excited to learn more about?</h2>
   ul id="sortable">
    <!-- Ask the class for skills and use them to populate this list -->
     class="ui-state-default">
     Node.js
     class="ui-state-default">
     HTML
     class="ui-state-default">
     MySQL
     class="ui-state-default">
     Express.js
     class="ui-state-default">
     NoSOL
     class="ui-state-default">
     React
     class="ui-state-default">
     JavaScript
     </div>
 </body>
 <!-- Moved jQuery <script> tags -->
 <script src="https://code.jquery.com/jquery-1.12.4.js"></script>
 <script src="https://code.jquery.com/ui/1.12.1/jquery-ui.js"></script>
 <script>
  $(function () {
   $('#sortable').sortable();
   $('#sortable').disableSelection();
  });
 </script>
```

</html>

```
<!DOCTYPE html>
<!-- From the jQuery UI Sortable Docs. To be used as starter code -->
<html lang="en">
<head>
  <meta charset="utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <!-- Change the title -
  <title>jQuery UI Sortable - Default functionality</title>
   href="https://code.jquery.com/ui/1.12.1/themes/base/jquery-ui.css"
  <!-- Change to our own custom stylesheet -->
  link rel="stylesheet" href="/resources/demos/style.css" />
  <!-- Add this <style> code to the custom stylesheet -->
   #sortable {
    list-style-type: none;
    margin: 0;
    padding: 0;
     width: 60%;
   #sortable li {
    margin: 0 3px 3px 3px;
     padding: 0.4em;
    padding-left: 1.5em;
     font-size: 1.4em;
     height: 18px;
   #sortable li span {
    position: absolute;
     margin-left: -1.3em;
  </style>
  <!-- Move the jQuery <script> tags to the bottom -->
  <script src="https://code.jquery.com/jquery-1.12.4.js"></script>
  <script src="https://code.jquery.com/ui/1.12.1/jquery-ui.js"></script>
  <script>
   $(function () {
    $('#sortable').sortable();
    $('#sortable').disableSelection();
  </script>
</head>
 <body>
  <!-- Change body content -->
  ul id="sortable">
   class="ui-state-default">
    <span class="ui-icon ui-icon-arrowthick-2-n-s"></span>Item 1
   class="ui-state-default">
    <span class="ui-icon ui-icon-arrowthick-2-n-s"></span>Item 2
   class="ui-state-default">
    <span class="ui-icon ui-icon-arrowthick-2-n-s"></span>Item 3
   class="ui-state-default">
    <span class="ui-icon ui-icon-arrowthick-2-n-s"></span>Item 4
   class="ui-state-default">
    <span class="ui-icon ui-icon-arrowthick-2-n-s"></span>Item 5
   class="ui-state-default">
    <span class="ui-icon ui-icon-arrowthick-2-n-s"></span>Item 6
   class="ui-state-default">
    <span class="ui-icon ui-icon-arrowthick-2-n-s"></span>Item 7
  </body>
<!-- See index.html file for the resulting code -->
</html>
```

jQuery UI Interactions - Sortable What are you most excited to learn more about? Node.js HTML MySQL Express.js NoSQL React JavaScript

```
body {
    font-family: 'Titillium Web', sans-serif;
 font-size: 16px;
h1.h2.h3.h4.h5.h6 {
 font-weight: 700;
  text-align: center;
.byline {
  font-weight: 200;
  font-style: italic;
 text-align: center;
 display: inline-block;
#sortable {
 list-style-type: none;
  margin: 0;
 padding: 0;
width: 20%;
#sortable li {
 margin: 0 3px 3px 3px;
 padding: 0.4em;
  padding-left: 1.5em;
  font-size: 1.4em;
 height: 18px;
```

Moment Format

```
<!DOCTYPE html>
<html lang="en">
 <head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <title>Moment Functions</title>
  link
   href="https://fonts.googleapis.com/css2?family=Krona+One
               &family=Pacifico&family=Roboto:wght@700&display=swap"
   rel="stylesheet"
  <link rel="stylesheet" href="./assets/css/style.css" />
  <script
  type="text/javascript"
  src="https://cdnjs.cloudflare.com/ajax/libs/moment.js/2.27.0/moment.min.js"
  <script
   src="https://code.jquery.com/jquery-3.5.1.min.js"
   integrity="sha256-9/aliU8dGd2tb6OSsuzixeV4y/faTqgFtohetphbbj0="
   crossorigin="anonymous"
  ></script>
 </head>
 <body>
  <main>
   <section class="jumbotron">
   <h1 class="title">Moment Quiz</h1>
    Answer the following questions
   </section>
   <section>
    1. What is today's date in the following format: Jan 1st, 1999?
     2. What is the day of the week today?
     3. Parse the following date, 11/3/2020, and convert it into
               the following format: Sunday, February 14th 2010, 3:25:50 pm.
     4. I need to place my recycling bin on the curb on every odd week of the year
               for collection. Do I need to put out my recycling bin out this week?
     </section>
  </main>
  <script src="./assets/js/script.js"></script>
 </body>
</html>
```

```
Moment Quiz
Answer the following questions

1. What is today's date in the following format: Jan 1st, 1999?

May 18th, 2021

2. What is the day of the week today?

Today is Tuesday

3. Parse the following date, 11/3/2020, and convert it into the following format: Sunday, February 14th 2010, 3:25:50 pm.

Tuesday, November 3rd 2020, 12:00:00 am

4. I need to place my recycling bin on the curb on every odd week of the year for collection. Do I need to put out my recycling bin out this week?

true, because it's currently week 21
```

CSS- see attached

```
// Use Moment.js to format the following variables:
// 1. What is today's date in the following format: Jan 1st, 1999?
var today = moment();
$("#1a").text(today.format("MMM Do, YYYY"));
// 2. What is the day of the week today?
var dayWeek = today.format("[Today is] dddd")
$("#2a").text(dayWeek);
// 3. Parse the following date, 11/3/2020, and convert it into the following format:
          Sunday, February 14th 2010, 3:25:50 pm.
var reformatDate = moment("11/3/20", "MM-DD-YY").format
("dddd, MMMM Do YYYY, h:mm:ss a");
$("#3a").text(reformatDate);
// 4. I need to place my recycling bin on the curb on every odd week of the year for collection.
           Do I need to put out my recycling bin out this week?
var weekNum = today.format("w");
var takeOut:
// Check odd, then assign boolean
if(weekNum % 2) {
 takeOut = true:
} else {
 takeOut = false:
$("#4a").text(takeOut + ", because it's currently week " + weekNum);
```

Git Revert

Git Revert

In this activity, you will use 'git revert' to undo a commit made earlier while keeping the commit history.

Instructions

- * In the command line, create a new directory called 'git_revert_demo':
- ```bash mkdir git revert demo
- * 'cd' into that directory and initialize an empty git repo:
- ```bash
 cd git_revert_demo
 git init .
- * Open the `git_revert_demo` directory in your IDE and copy the [script.js](.script.js) file into it. You'll notice that it is the code from our previous activity on jQuery UI Interactions.
- * Make the initial commit:
- "bash git add -A git commit -m 'initial commit'
- * In the `git_revert_demo/ script.js` file, add the code for the `Autocomplete` widget and save the file.
- * In your terminal, add and commit the changes:

```
```bash
git add -A
git commit -m 'added Autocomplete widget'
```

\* Add and commit the changes:

```
"bash
git add -A
git commit -m 'added Datepicker widget'
```

\* Lastly, Add and commit the changes:

```
bash git add -A git commit -m 'added Sortable interaction'
```

- \* In your terminal, run `git log` to see the commit history. You should see all four commits.
- \* Now imagine that the `Sortable` interaction was a mistake and you want to revert back to before you made that commit. You can use the git command `git revert`.
- \* 'git revert' requires a commit reference and will not execute without one. You can choose which commit to revert to by using the commit hash. A \*\*commit hash\*\* is the unique string of letters and numbers assigned to each commit. You can find the commit hash associated with the 'Sortable' interaction in the 'git log'.
- \* Once you find the correct commit hash, copy it and use it in the git command, 'git revert < commit hash > '.
- \* This will create a new commit, which will open the commit message editor and prompt for a new commit message. Press 'esc', 'Shift + Z', and 'Shift + Z' to exit out of the message editor.
- \* Use 'git log' to see that there is a new commit added, whi ch reverted the 'added Sortable interaction' commit.
- \* Check the `script.js` file to see if the `Sortable` interaction is no longer there.
- \* If you look at the [Git Revert Docs] (https://git-scm.com/docs/git-revert#\_options), you'll see various options that you can also use. One useful option is to pass in the `HEAD`, which will revert the latest commit:
- ```bash git revert HEAD
- \* To test this, imagine that you changed your mind again and want to add the `Sortable` interaction back into your code.
- \* In your terminal, run 'git revert HEAD'. This action creates another new commit, which will again open the commit message editor prompting for a new commit message. Press 'esc', 'Shift + Z', and 'Shift + Z' to exit out of the message editor.

- \* When you run `git log`, you can see the automatically generated commit messages for both of your revert commands.
- \* Check the `script.js` file to see if the `Sortable` interaction has been added back into your code.
- \* For more information, review the [Git documentation on revert] (https://git-scm.com/docs/git-revert).

HTML Chapter

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HTML Chapter

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