```
1    <!DOCTYPE html>
2
3    <html>
4      <head>
5        <meta charset="UTF-8">
6
7        <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css" integri
ty="sha384-MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO" crossorigin="anonymous">
8
9        <script src="https://code.jquery.com/jquery-3.4.0.min.js" integrity="sha256-
BJeo0qm959uMBGb65z40ejJYGSgR7REI4+CW1fNKwOg=" crossorigin="anonymous"></script>
10
11       <title>Web Development, continued: JavaScript basics </title>
12       <script>
13         // this a comment in javascript, the function below will be invoked after the full page loads
14         $("document").ready(function(){
15           // bind the our fuction to load external data to the button
16           $("#go").click(loadData);
17         });
18
19         // our custom function to load data from an external file
20         function loadData(){
21           $.ajax({
22             // where to load data from (relative path)
23             url: "data.txt",
24             // HTTP Method to use
25             type: "GET",
26             dataType: "text",
27
28             // how to handle an error
29             error: function(object, status, stringError){
30               alert("Something went wrong with the request!: " + stringError);
31               $("#onscreen").html("Uh oh!").css("color", "red");
32               return;
33             },
34             // how to handle success
35             success: function(data, status){
36               console.log("We got the data!!!1");
37               $("#onscreen").html(data).css("color", "");
38             }
39           });
40         }
41       </script>
42     </head>
43
44     <body>
```

```
45        <!--  This is the span where we will insert data   -->
46        <span id="onscreen"></span>
47        <div><button id="go">Go!</button></div>
48
49
50    </body>
51  </html>
```

1   This is data from an external file!

```
1    <!DOCTYPE html>
2
3    <!-- Demonstrates carousel with Bootstrap, now with Dan's images from the internet -->
4
5    <html lang="en">
6        <head>
7            <meta charset="utf-8">
8            <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
9
10           <link crossorigin="anonymous" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/
bootstrap.min.css" integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T"
rel="stylesheet">
11
12           <script crossorigin="anonymous" integrity="sha384-q8i/
X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" src="https://code.jquery.com/jquery-3.3.1.slim.min.js"></
script>
13           <script crossorigin="anonymous" integrity="sha384-
UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1" src="https://cdnjs.cloudflare.com/ajax/libs/
popper.js/1.14.7/umd/popper.min.js"></script>
14           <script crossorigin="anonymous" integrity="sha384-JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/
nJGzIxFDsf4x0xIM+B07jRM" src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"></script>
15
16           <style>
17
18               .carousel {
19                   width: 50%;
20               }
21
22           </style>
23
24           <title>images8</title>
25       </head>
26       <body>
27
28           <div id="images" class="carousel slide" data-ride="carousel">
29               <ol class="carousel-indicators">
30                   <li data-target="#images" data-slide-to="0" class="active"></li>
31                   <li data-target="#images" data-slide-to="1"></li>
32                   <li data-target="#images" data-slide-to="2"></li>
33               </ol>
34               <div class="carousel-inner">
35                   <div class="carousel-item active">
36                       <img alt="baskets on heads walking" class="d-block w-100" src="https://i.postimg.cc/2Szr5fqY/
baskets.jpg">
37                       <div class="carousel-caption d-none d-md-block">
38                           <h5>Baskets</h5>
```

```
39                        <p>A mother and son with baskets on their heads</p>
40                    </div>
41                </div>
42                <div class="carousel-item">
43                    <img alt="cars in a line" class="d-block w-100" src="https://i.postimg.cc/2yRfNppP/cars.jpg">
44                    <div class="carousel-caption d-none d-md-block">
45                        <h5>Cars</h5>
46                        <p>Little buggy cars in a line</p>
47                    </div>
48                </div>
49                <div class="carousel-item">
50                    <img alt="Church steeple" class="d-block w-100" src="https://i.postimg.cc/ZqnmrFFD/
church.jpg">
51                    <div class="carousel-caption d-none d-md-block">
52                        <h5>Church</h5>
53                        <p>A church steeple</p>
54                    </div>
55                </div>
56            </div>
57            <a class="carousel-control-prev" href="#images" role="button" data-slide="prev">
58                <span class="carousel-control-prev-icon" aria-hidden="true"></span>
59                <span class="sr-only">Previous</span>
60            </a>
61            <a class="carousel-control-next" href="#images" role="button" data-slide="next">
62                <span class="carousel-control-next-icon" aria-hidden="true"></span>
63                <span class="sr-only">Next</span>
64            </a>
65        </div>
66    </body>
67 </html>
```

```html
1    <!DOCTYPE html>
2
3    <!-- Demonstrates carousel with Bootstrap, with AJAX loading the images, titles, and descriptions from a json
file -->
4
5    <html lang="en">
6        <head>
7            <meta charset="utf-8">
8            <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
9
10           <!-- bootstrap CSS -->
11           <link crossorigin="anonymous" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/
bootstrap.min.css" integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T"
rel="stylesheet">
12
13           <!-- jQuery -->
14           <script
15           src="https://code.jquery.com/jquery-3.4.0.min.js"
16           integrity="sha256-BJeo0qm959uMBGb65z40ejJYGSgR7REI4+CW1fNKwOg="
17           crossorigin="anonymous"></script>
18
19           <!-- popper (required by bootstrap) -->
20           <script crossorigin="anonymous" integrity="sha384-
UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1" src="https://cdnjs.cloudflare.com/ajax/libs/
popper.js/1.14.7/umd/popper.min.js"></script>
21
22           <!-- bootstrap's JavaScript component -->
23           <script crossorigin="anonymous" integrity="sha384-JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/
nJGzIxFDsf4x0xIM+B07jRM" src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"></script>
24
25           <style>
26               /* custom style to control the size of the carousel */
27               .carousel {
28                   width: 50%;
29               }
30
31           </style>
32
33           <!-- Our own custom JavaScript for dynamically getting the image data -->
34           <script>
35
36               // Document Ready: https://learn.jquery.com/using-jquery-core/document-ready/
37               $(document).ready(function(){
38
39                   // function to load the external file
40                   $.ajax({
```

```
41                    method: "GET",
42                    dataType: 'json',
43                    url: "images.json",
44                })
45                .done(function(data){
46                    // define our temporary placeholder strings
47                    var contents_html = "";
48                    var carousel_indicators = "";
49
50                    // loop over our returned JSON data and form our HTML
51                    for (var i in data) {
52                        // form the HTML for each image based on the title, description and URL
53                        contents_html += '<div class="carousel-item">'
54                                        +'<img alt="' + data[i].description + '" class="d-block w-100" src="'
+ data[i].url + '">'
55                                        +'<div class="carousel-caption d-none d-md-block">'
56                                            +'<h5>' + data[i].title + '</h5>'
57                                            +'<p>' + data[i].description + '</p>'
58                                        +'</div>'
59                                    +'</div>';
60
61                        // add an indicator for each image
62                        carousel_indicators += '<li data-target="#my-carousel" data-slide-to="'+ i.toString() +'"
></li>'
63                    }
64
65                    // these jQuery selectors get each select the IDs for the placeholder items, and insert HTML
into them which we created above
66                    $("#carousel-inner").html(contents_html);
67                    $("#carousel-indicators").html(carousel_indicators);
68
69                    // these jQuery selectors get the first item of the images and indicators that we just
selected.  It adds the CSS class "active" which is needed to start the carousel
70                    $("#carousel-inner .carousel-item").first().addClass("active");
71                    $("#carousel-indicators li").first().addClass("active");
72                })
73                // this function happens if we're unable to load the external data file
74                .fail(function(jqXHR, textStatus){
75                    console.log("Request failed: " + textStatus);
76                })
77            });
78
79        </script>
80
81        <title>images9</title>
82    </head>
```

```
83      <body>

84

85          <!-- https://getbootstrap.com/docs/4.0/components/carousel/ -->
86          <div id="my-carousel" class="carousel slide" data-ride="carousel">
87              <ol class="carousel-indicators" id="carousel-indicators">

88

89              </ol>
90              <div class="carousel-inner" id="carousel-inner">

91

92              </div>
93              <a class="carousel-control-prev" href="#my-carousel" role="button" data-slide="prev">
94                  <span class="carousel-control-prev-icon" aria-hidden="true"></span>
95                  <span class="sr-only">Previous</span>
96              </a>
97              <a class="carousel-control-next" href="#my-carousel" role="button" data-slide="next">
98                  <span class="carousel-control-next-icon" aria-hidden="true"></span>
99                  <span class="sr-only">Next</span>
100             </a>
101         </div>
102     </body>
103 </html>
```

```json
1    [{
2        "title": "Baskets",
3        "description": "A mother and son with baskets on their heads",
4        "url": "https://i.postimg.cc/2Szr5fqY/baskets.jpg"
5    },
6    {
7            "title": "Cars",
8            "description": "Little buggy cars in a line",
9            "url": "https://i.postimg.cc/2yRfNppP/cars.jpg"
10   },
11   {
12           "title": "Church",
13           "description": "A church steeple",
14           "url": "https://i.postimg.cc/ZqnmrFFD/church.jpg"
15   },
16   {
17           "title": "Palm Tree",
18           "description": "A beautiful purple sky",
19           "url": "https://i.postimg.cc/DzNT5Jxf/palmtree.jpg"
20   },
21   {
22           "title": "Road",
23           "description": "A winding road",
24           "url": "https://i.postimg.cc/Px8k7X7W/road.jpg"
25   },
26   {
27           "title": "Sunset",
28           "description": "A beautiful sunset at the beach",
29           "url": "https://i.postimg.cc/VkD1rHMC/sunset.jpg"
30   }]
```

```html
1    <!DOCTYPE html>
2
3    <html>
4      <head>
5        <meta charset="UTF-8">
6
7        <!-- my own stylesheet -->
8        <link rel="stylesheet" type="text/css" href="styles/index.css"/>
9
10       <!-- bootstrap style sheet -->
11       <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css" integri
ty="sha384-MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO" crossorigin="anonymous">
12
13       <!-- jQuery source (minified) code -->
14       <script src="https://code.jquery.com/jquery-3.4.0.min.js" integrity="sha256-
BJeo0qm959uMBGb65z40ejJYGSgR7REI4+CW1fNKwOg=" crossorigin="anonymous"></script>
15
16       <title>Web Development, continued: JavaScript basics </title>
17       <script>
18         // this a comment in javascript, the function below will be invoked after the full page loads
19         $("document").ready(function(){
20           // javascript in here will execute once the page has loaded
21         });
22       </script>
23     </head>
24
25     <body>
26       <!--  this is a comment in HTML   -->
27       <div id="box1">
28         <span>Hello, World!</span>
29       </div>
30       <div id="box2">
31         <span>Hello, E5!</span>
32       </div>
33       <span>this text is outside of a div</span>
34
35
36     </body>
37   </html>
```

```css
/**
 * index.css
 * - Add any styles you want here!
 */

div {
  width:100px;
  height:100px;
  margin:10px;
  float:left;
  text-align:center;
  color:white;
  padding:5px;
}

div#box1 {
  background-color:blue;
}

div#box2 {
  background-color:green;
  height:200px;

}
```