19. Carousels

Carousels are the most popular Bootstrap component. It essentially allows you to create a slideshow that auto-advances and it gives you some controls to let you advance through the images. Now there's a ton of classes for the carousel so let's take a look at all of them. So the first thing you need to do is have a main component that has a class of carousel. That component needs to have at least a data-ride attribute with the word carousel. This will automatically activate the advancing of the carousel when the page loads. Now in addition to that, there will be another container that has a class of **carousel-inner**. This is what's going to have all your photos. Now each of the photos should have a **div** wrapping the photos with a class of **carousel-item.**

In addition to that, we have a few options. The first element that you want to show up when the carousel starts should have a class of **active**. That would go in the **div**, and you do want to crop and size the photos. Otherwise, the carousel will jump up and down.

Example) Create a simple carousels of two images

HTML

```
<div class='carousel' data-ride='carousel' style="width:700px; height:600px;">
  <div class='carousel-item active' style="width:100%; height:80%;">
      <img src="nyc.jpg" alt="Lifestyle Photo" style="width:100%; height:100%;">
  </div>
  <div class='carousel-item' style="width:100%; height:80%;">
      <img src="apple.jpg" alt="Mission" style="width:100%; height:100%;">
  </div>
  <div>
    <h3>New York City <small>"The Big Apple"</small></h3>
    <p>Situated on one of the world's largest natural harbors, New York City
    consists of five boroughs, each of which is a separate county of the State of
    New York.</p>
  </div>
</div> <!--end of carousel-->
```

In addition to that, we can add captions to a carousel with the **carousel-caption** class. So you would put another **div**, add this class to it, and that will go inside the **div** that has the image.

```html
<div class='carousel' data-ride='carousel' style="width:700px; height:600px;">
    <!--1st image-->
    <div class='carousel-item active' style="width:100%; height:80%;">
      <img class="img-fluid" src="nyc.jpg" alt="New York City" style="width:100%;
      height:100%;">
      <div class="carousel-caption" style="background-color: rgba(0,0,0,0.5);">
        <h3>New York City <small>"The Big Apple"</small></h3>
        <p>Situated on one of the world's largest natural harbors, New York City
        consists of five boroughs, each of which is a separate county of the
        State of New York.</p>
      </div>
    </div>

    <div class='carousel-item' style="width:100%; height:80%;"><!-- 2nd image-->
        <img class="img-fluid" src="timesSquare.jpg" alt="Times Square"
        style="width:100%; height:100%;">
        <div class="carousel-caption" style="background-color: rgba(0,0,0,0.5);">
          <h3>Times Square <small>"The Heart of New York City"</small></h3>
          <p>Times Square is a major commercial intersection, tourist destination,
          entertainment center and neighborhood in the Midtown Manhattan section
          of New York City at the junction of Broadway and Seventh Avenue.</p>
        </div>
    </div>
</div> <!--end of carousel-->
```

So in addition to that, there's a number of navigation options so you can add these little arrows that will let you advance to the previous and next slide. The way you do that is by tying the carousel to the navigation with a **data-target** attribute. Whenever you use navigation, you need to make sure that you have that, and then you have two buttons that you can add. One with a class of **carousel-control-prev** and then you add an icon inside. And then also, you add a **carousel-control-next** with its icon as well.

```html
<div class='carousel' data-ride='carousel' id="slideshow"  style="width:700px;
height:600px;" >
    <!--1st image-->
    <div class='carousel-item active' style="width:100%; height:80%;">
      <img class="img-fluid" src="nyc.jpg" alt="New York City" style="width:100%;
      height:100%;">
      <div class="carousel-caption" style="background-color: rgba(0,0,0,0.5);">
          <h3>New York City <small>"The Big Apple"</small></h3>
          <p>Situated on one of the world's largest natural harbors, New York City
          consists of five boroughs, each of which is a separate county of the
          State of New York.</p>
      </div>
    </div>

    <div class='carousel-item' style="width:100%; height:80%;"><!-- 2nd image-->
        <img class="img-fluid" src="timesSquare.jpg" alt="Times Square"
        style="width:100%; height:100%;">
        <div class="carousel-caption" style="background-color: rgba(0,0,0,0.5);">
          <h3>Times Square <small>"The Heart of New York City"</small></h3>
          <p>Times Square is a major commercial intersection, tourist destination,
          entertainment center and neighborhood in the Midtown Manhattan section
          of New York City at the junction of Broadway and Seventh Avenue.</p>
        </div>
    </div>
    <!-- Left and right controls -->
    <a class="carousel-control-prev" href="#slideshow" data-slide="prev">
      <span class="carousel-control-prev-icon"></span>
    </a>
    <a class="carousel-control-next" href="#slideshow" data-slide="next">
      <span class="carousel-control-next-icon"></span>
    </a>

</div> <!--end of carousel-->
```