

Customizing Bootstrap 4

Skills Bootcamp in Front-End Web Development

Lesson 3.2







Today's Objectives

By the end of class today, you will:



Create a fluid layout with the Bootstrap 4 built-in col system.



Build a desktop layout with three columns in Bootstrap using its built-in 12-column grid and user interface (UI) components.



Customize the Bootstrap 4 template's UI components

Today's Progress

In the first half of class, we'll build:

01

Cards in our responsive rows

02

Bootstrap 4 form component

03

Bootstrap 4 modal window

Navbar

Hello, world!

This is a simple hero unit, a simple jumbotron-style component for calling extra attention to featured content or information.

It uses utility classes for typography and spacing to space content out within the larger container.

Learn more



Card title

Some quick example text to build on the card title and make up the bulk of the card's content.

Go somewhere



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Go somewhere



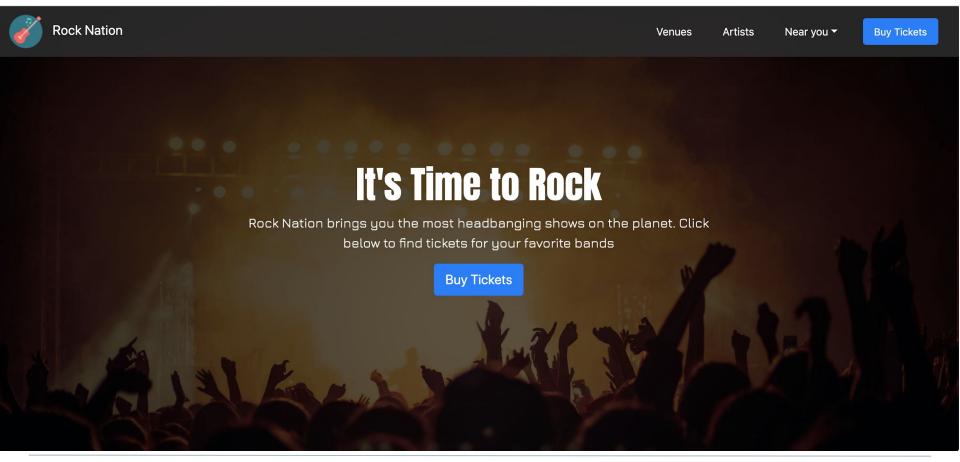
Card title

Some quick example text to build on the card title and make up the bulk of the card's content.

Go somewhere



Today We Build—Rock Nation





Bootstrap 4 Components Review

Bootstrap 4 is an open-source framework for developing with HTML, CSS, and JavaScript. Bootstrap is used to prototype quickly ideas or build entire apps with Bootstrap's responsive grid system, prebuilt components, and plugins built on jQuery (JavaScript).



What is a Bootstrap 4 component?



Why would front-end developers use Bootstrap 4 components?



How does Bootstrap's grid system work? Why is the number 12 relevant to col classes?





Activity: Add Containers, Rows, and Columns to Your Template

In this activity, you'll add the structure for the content on your page by adding rows, containers, and columns.

Suggested Time:

15 Minutes



Let's Review: Bootstrap's Col Class



What is the difference between a container and a container-fluid?



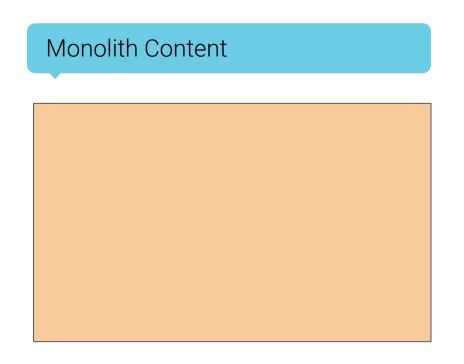
How does the col class system work conceptually?

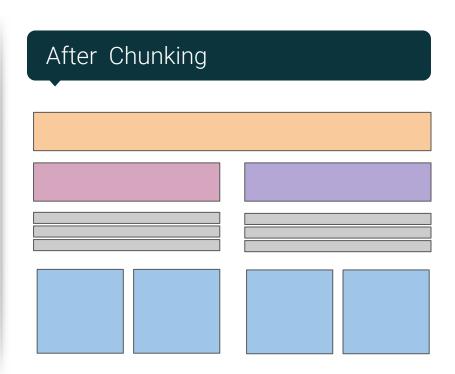


A **card** is a UI design pattern that groups related information in a flexible-size container that visually resembles a playing card.

Content Chunking

Bootstrap cards help with "Content Chunking"





Bootstrap 4 Cards

Visually separate and group content that is related.

Are rectangles
full of inclusive
images and text that
serve as a teaser
to more detailed
information.

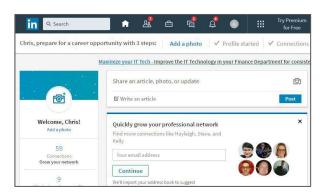
Are an easy way to partition content, making your UI easier to visually digest.

Bootstrap 4 Cards

You have most certainly seen cards before without realizing it (websites like Pinterest LinkedIn or Facebook). They all use cards to give you enough information to get you interested.











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<u>sitepoint.com</u>





Activity: Add Cards to Your Bootstrap 4 Template

In this activity, you'll add cards to your page.

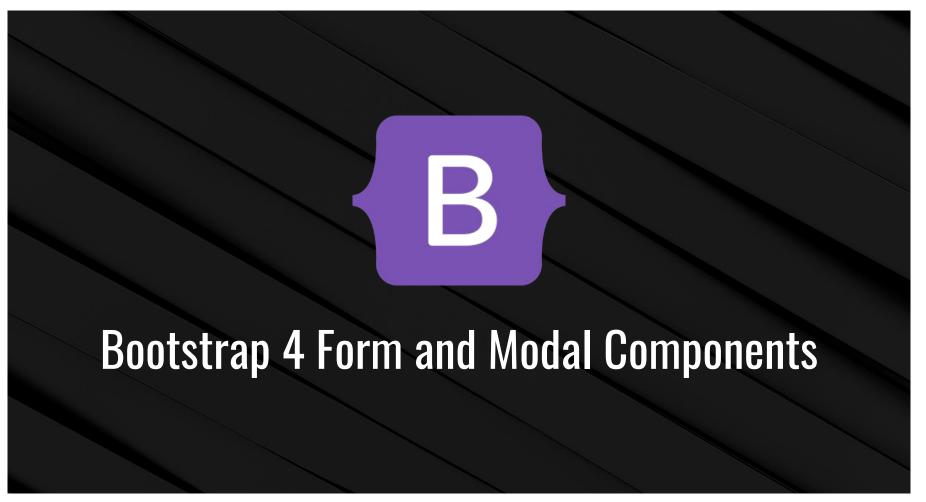
Suggested Time:

10 Minutes

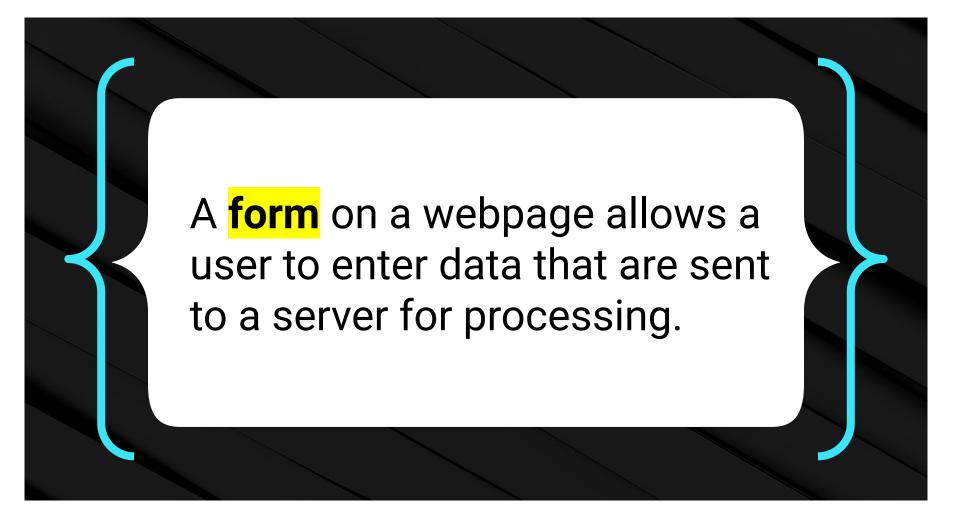




What is a card? Have you seen cards used on any big websites? Where?

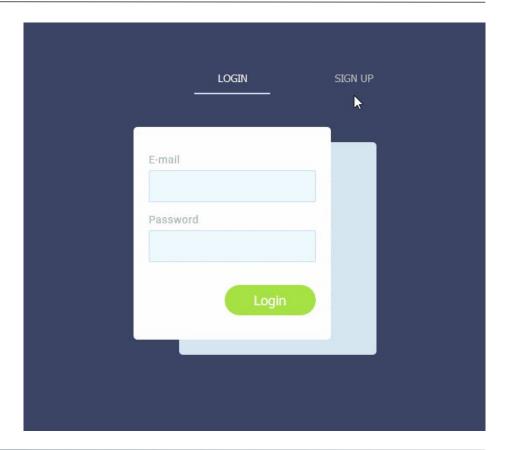






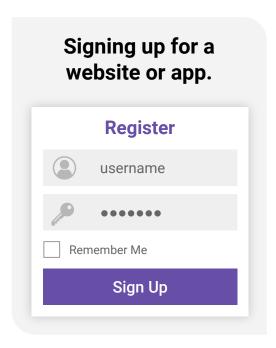
Form elements are common elements found on the web and are the primary mode of transportation of data.

They are used to capture user, payment, or contact information.



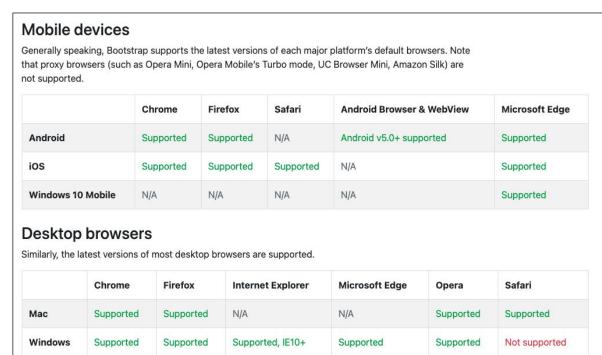
freefrontend.com 25

Bootstrap gives us a form that is quick to customize (or connect to a database). They can have a variety of functions. One Example:



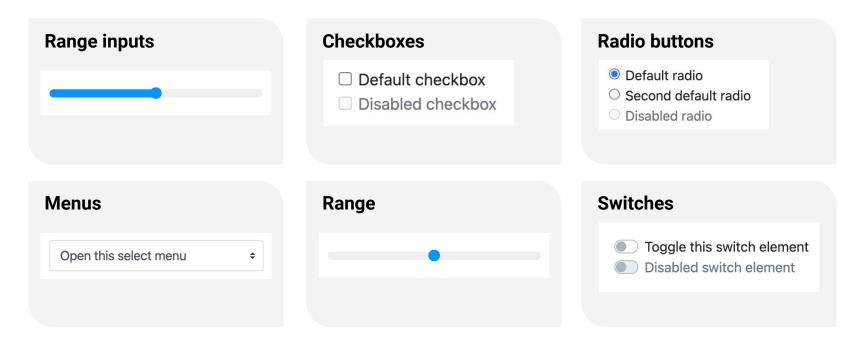
Forms in the past were notoriously difficult to style, requiring additional code called a polyfill to look the same across browsers.

This isn't a problem with Bootstrap 4's forms—they are already compatible across all browsers.



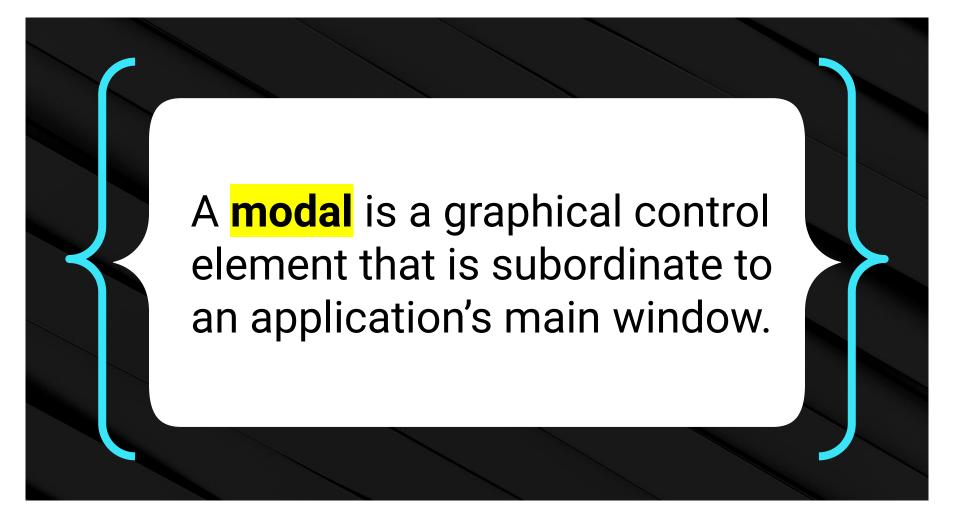
https://qetbootstrap.com

Bootstrap 4 also has many custom form elements that can be added to your form to embellish it and make it look nice.



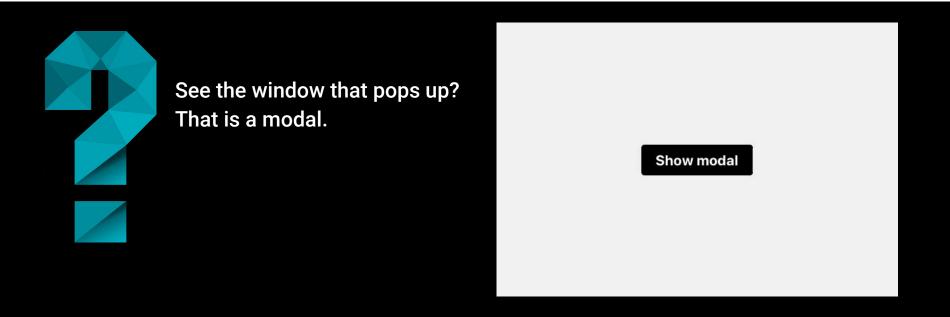
https://getbootstrap.com





A modal creates a mode that disables the main window but keeps it visible, with the modal window as a child window in front of it.

Bootstrap 4's modals are components that come prebuilt with animations and transitions that make a fully functional, pleasing UI component.





Modals are built with HTML, CSS, and JavaScript.



They're positioned over everything else in the document and darken the backdrop so that your user is focused on your content.



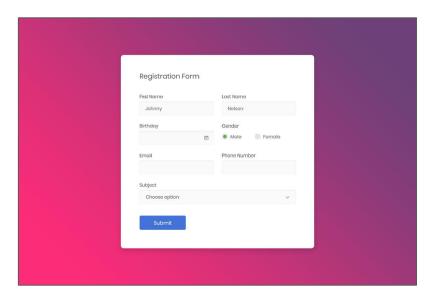
Modals should be used sparingly to avoid usability issues.



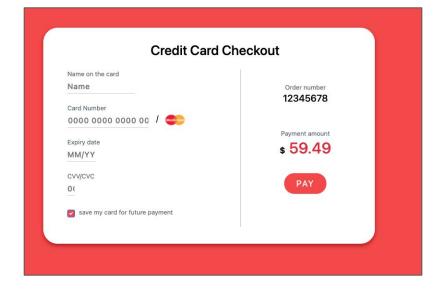
Modals can hold many different UI elements and are used to focus a user on a specific part of our UI.

Examples of modals:

Sign-in forms



Payment forms

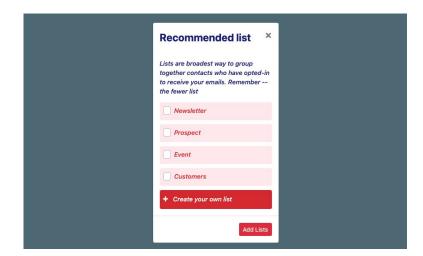


Examples of modals:

Advertisements



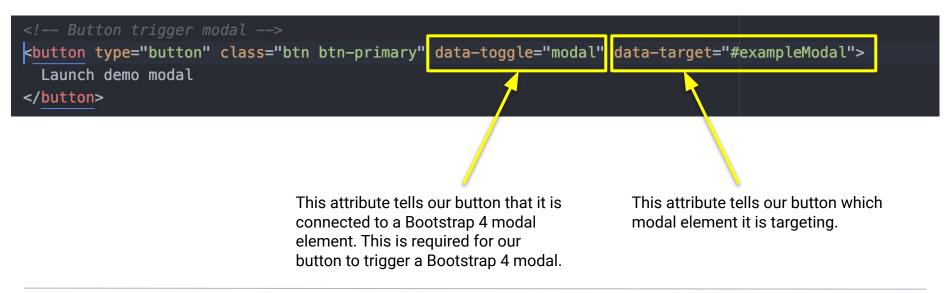
Information boxes



Modal elements were not common on the web before Bootstrap 4, partially because they require custom JavaScript code to function.

All you need to do is link to the Bootstrap's CSS and JavaScript files.

Bootstrap 4 modals have two requirements:





Activity: Forms and Modals

In this activity, you'll add a form and a modal component to your template, customizing their Bootstrap elements with HTML and CSS.

Suggested Time:

10 Minutes



Your Site Should Look Like This...



Card title

Some quick example text to build on the card title and make up the bulk of the card's content.

Go somewhere



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Go somewhere



Card title

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Go somewhere

Sign up for our mailing list

Email address

Enter email

We'll never share your email with anyone else.

Password

Let's Review: Forms and Modals



What are forms used for on the web?



Why is the Bootstrap 4 form useful?



What is a modal?



What kind of UI elements might you find in a modal?





Bootstrap 4 on its own is useful, but being able to create fully responsive components simply by overriding default styles is Bootstrap 4's real power.

You can overwrite Bootstrap's custom CSS styles to match your design.



Bootstrap 4 classes are usually overwritten using your own custom classes that প্রতিধার্য প্রাপ্ত ক্রিক্ত ক্রিমিন্ত ক্রমিন্ত ক্রিমিন্ত ক্রমিন্ত ক্রিমিন্ত ক্রমিন্ত ক্রিমিন্ত ক্রমিন্ত ক্রিমিন্ত ক্রমিন্ত ক্রিমিন্ত ক্রিমিন্ত ক্রিমিন্ত ক্রিমিন্ত ক্রিমিন্ত ক্রিমিনিন ক্রিমিন্ত ক্রিমিন্ত ক্রিমিন্ত ক্রিমিন্ত ক্রিমিন্ত ক্রিমিন্ত ক্

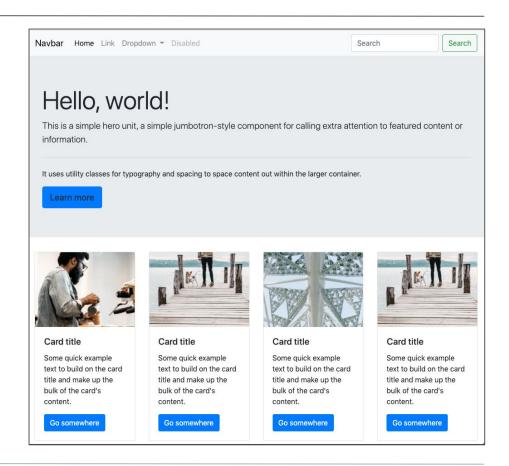
```
<!-- Bootstrap 4 CSS -->
<link rel="stylesheet" type="text/css" href="bootstrap.min.css">
```

We can then **customize our template** to look however we want.

```
<!-- Custom CSS -->
<link rel="stylesheet" type="text/css" href="custom.css">
```

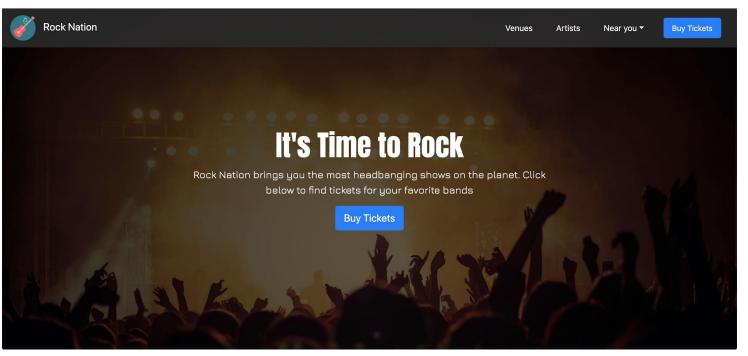
This is what we developed during Lesson 4.1.

Fairly "Bootstrap looking," right?





Here's a peek at what it'll look like after today:

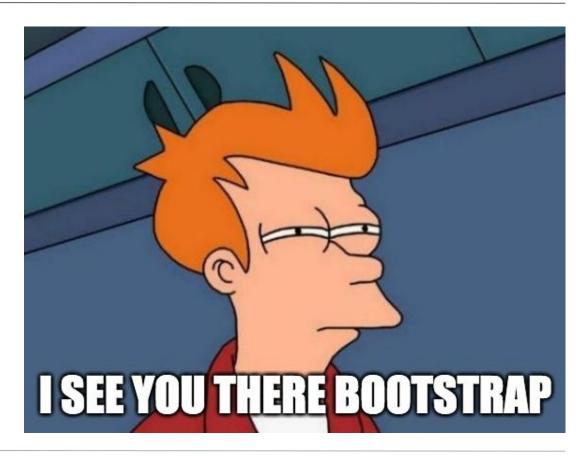


Much better!

Transforming a template from just components to a full design is how Bootstrap's components are meant to be used.

If you don't customize components, your design will still look and feel "Bootstrappy," and clients and business stakeholders will be able to tell.

The whole goal for a UX designer is to create an experience!



https://shakuro.com/

The whole goal for a UX designer is to create an experience!





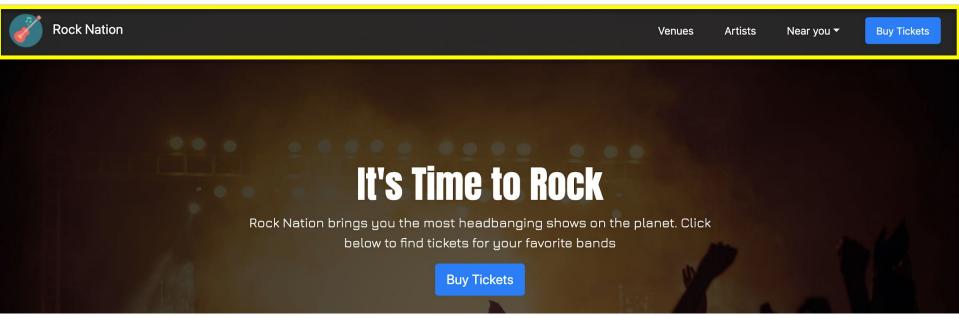
First, students need to understand that internet browsers load files top-down, meaning that line 1 loads first, followed by line 2, and so on, until the entire page loads. **Coastytyle|sheets||ike|soa**| second will overwrite those style sheets that loaded first.

```
<!-- Bootstrap 4 CSS -->
k rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"
integrity="sha384-ggOyR@iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T"
crossorigin="anonymous">
<!-- Load our custom stylesheet 2nd to overwrite bootstrap with our custom styles-->
k rel="stylesheet" href="css/index.css">
```

In your custom style sheet, you can target the Bootstrap 4 elements and write your custom CSS to overwrite Bootstrap 4's component styles.

Let's Code!

Let's start customizing our Bootstrap 4 template into a complete user funnel, starting with the navigation.







Activity: Webpage Funnel Customization: Part 1—Navbar

In this activity, you'll customize your site's navbar to reflect the site's layout and overall brand identity better.

Suggested Time:

15 Minutes

Activity: Customize Your Navigation

| !important; | The !important; tag can be added to the end of any CSS property to make it override any styles added to it. |
|---------------------|---|
| margin-left: auto; | The margin-left: auto; tag will move block-level elements to the farthest left they can go. |
| margin-right: auto; | The margin-right: auto; tag will move block-level elements to the farthest right they can go. |
| margin: 0 auto; | The margin: 0 auto; tag will center elements perfectly in their parent containers. |

Your Navigation Should Look Like the Following







A **jumbotron** indicates a big box for calling extra attention to some special content or information.

Jumbotrons are a widely used web design feature.





Jumbotron Component

Hello, world!

This is a simple hero unit, a simple jumbotron-style component for calling extra attention to featured content or information.

Learn more





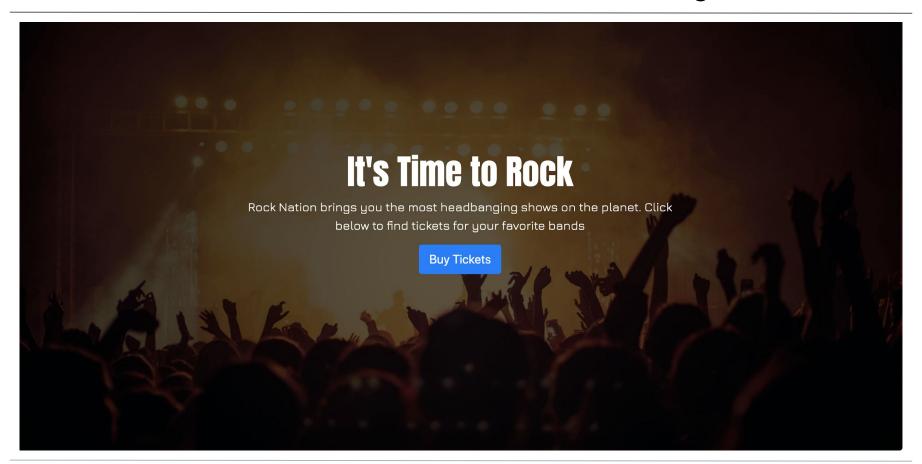
Activity: Webpage Funnel Customization: Part 2—Jumbotron

In this activity, you'll customize a jumbotron. You'll learn about overriding Bootstrap 4 styles and learn some new tricks using view height to calculate the height of an element.

Suggested Time:

15 Minutes

Your Jumbotron Should Look Like the Following







Congratulations! Recap



What is a webpage funnel, and why is it important?



How is it related to a CTA?



Which components did we customize today?



Did anyone have trouble customizing any components? What problems did you encounter?





