

Bootstrap

Web Engineering (WBCS008-05)

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What is Bootstrap?

Bootstrap is the most popular CSS Framework for developing responsive and mobile-first websites.

The screenshot shows a web application interface for a movie database. At the top, there is a navigation bar with links to "Demo Website", "Home", "RuG Website", and "Brightspace". A search bar is also present. The main content area has a title "Movies Frontend Demo - Bootstrap" and a subtitle "This is a demo for styling the vanilla frontend demo with Bootstrap." Below this, there is a section titled "Find Movies" with a heading "Find Movies". It includes a dropdown menu for "Select backend server" set to "localhost:3001", and two input fields for "Title (empty for all)" and "Year (empty for all)". A blue "Find!" button is located next to the year field. Below the search controls, a list of movies is displayed in cards:

- A Rainy Day in New York (2019) PG-13
- Murder Manual (2020) 18
- Ferris Bueller's Day Off (1986) PG-13
- Cape Fear (1991) R
- Mean Girls (2004) PG-13

On the left side of the page, there is a sidebar with a heading "Movies Frontend Demo" and a "Select back-end server" dropdown set to "localhost:3001". Below this, there are sections for "Find movies" with input fields for title and year, and a "Find!" button. A list of movies is shown:

- A Rainy Day in New York
- Murder Manual
- Ferris Bueller's Day Off
- Cape Fear
- Mean Girls

Each movie entry includes its title, release year, and rating (e.g., PG-13, 18, R, PG-13).

Installation

```
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/  
bootstrap.min.css" rel="stylesheet" integrity="sha384-  
rbsA2VBKQhg  
gwzxH7pPCaAq046Mgn0M80zW1RWuH61DGLwZJEdK2Kadq2F9CUG65" crossorigin=  
"anonymous">
```

```
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/js/  
bootstrap.bundle.min.js" integrity="sha384-kenU1KFdBIE4zVF0s0G1M5b  
4hcpxyD9F7jL+jjXkk+Q2h455rYXK/7HAuoJl+0I4" crossorigin="anonymous">  
</script>
```

Containers

Demo Website Home RuG Website Brightspace

Search...

Movies Frontend Demo - Bootstrap

This is a demo for styling the vanilla frontend demo with Bootstrap.

Find Movies

Select backend server

localhost:3001

Title (empty for all) Year (empty for all)

Find

A Rainy Day in New York (2019) PG-13

Murder Manual (2020) 18

Ferris Bueller's Day Off (1986) PG-13

Cape Fear (1991) R

Mean Girls (2004) PG-13

Demo Website Home RuG Website Brightspace

Search...

Movies Frontend Demo - Bootstrap

This is a demo for styling the vanilla frontend demo with Bootstrap.

Find Movies

Select backend server

localhost:3001

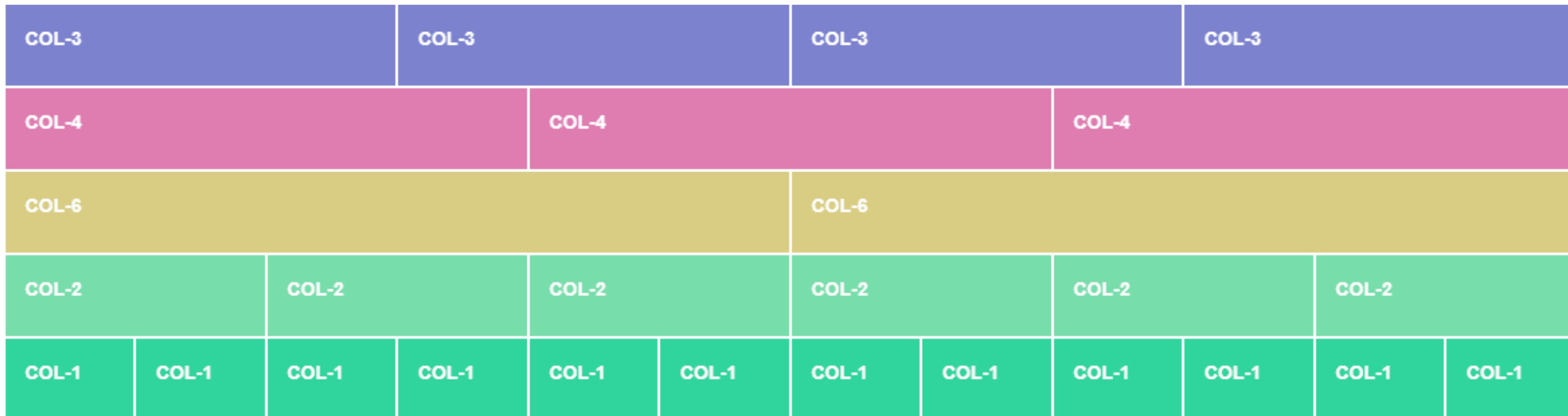
Title (empty for all)

Year (empty for all)

Find

Grid System

Grid System



	xs <576px	sm ≥576px	md ≥768px	lg ≥992px	xl ≥1200px	xxl ≥1400px
Container <code>max-width</code>	None (auto)	540px	720px	960px	1140px	1320px
Class prefix	<code>.col-</code>	<code>.col-sm-</code>	<code>.col-md-</code>	<code>.col-lg-</code>	<code>.col-xl-</code>	<code>.col-xxl-</code>

Other Elements

Accordion Item #1

This is the first item's accordion body. It is shown by default, until the collapse plugin adds the appropriate classes that we use to style each element. These classes control the overall appearance, as well as the showing and hiding via CSS transitions. You can modify any of this with custom CSS or overriding our default variables. It's also worth noting that just about any HTML can go within the `.accordion-body`, though the transition does limit overflow.

Accordion Item #2

Accordion Item #3

A simple primary alert—check it out!

A simple secondary alert—check it out!

A simple success alert—check it out!

A simple danger alert—check it out!

Primary **Secondary** **Success** **Danger** **Warning** **Info** **Light** **Dark**

Primary **Secondary** **Success** **Danger** **Warning** **Info** **Light** **Dark** **Link**

Placeholder

Image cap

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

[Go somewhere](#)

Placeholder

First slide

First slide label
Some representative placeholder content for the first slide.

Dropdown button ▾

- Action
- Another action
- Something else here

```
<button class="btn btn">
```

Home

[Home](#) / Library

[Home](#) / [Library](#) / Data

Modal title

Modal body text goes here.

[Close](#) [Save changes](#)

Bootstrap 11 mins ago X

Hello, world! This is a toast message.

Itips:

Default tooltip

some [inline links](#) with some [real text](#).

Click to toggle popover

Popover title
And here's some amazing content.
It's very engaging. Right?

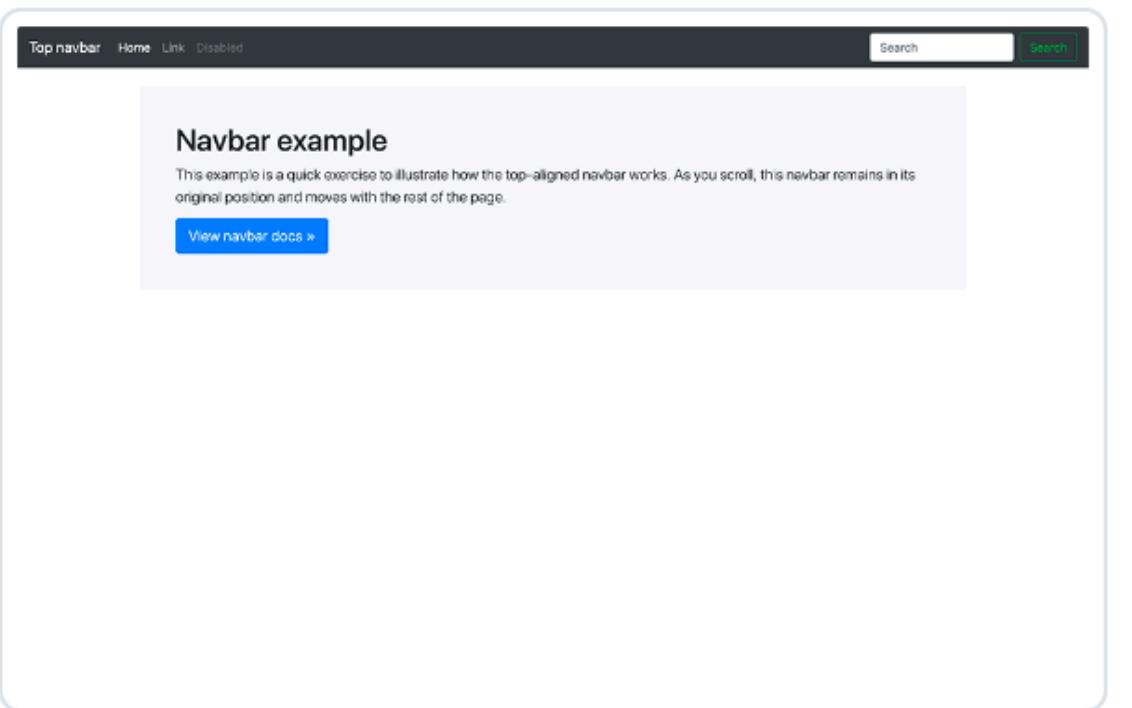
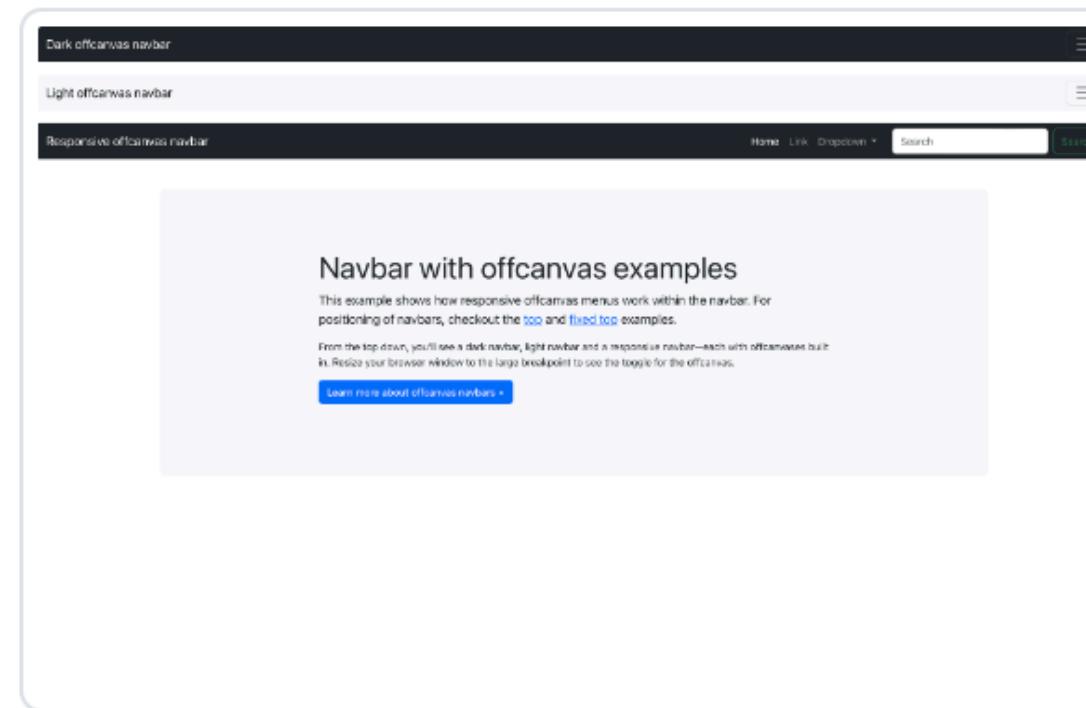
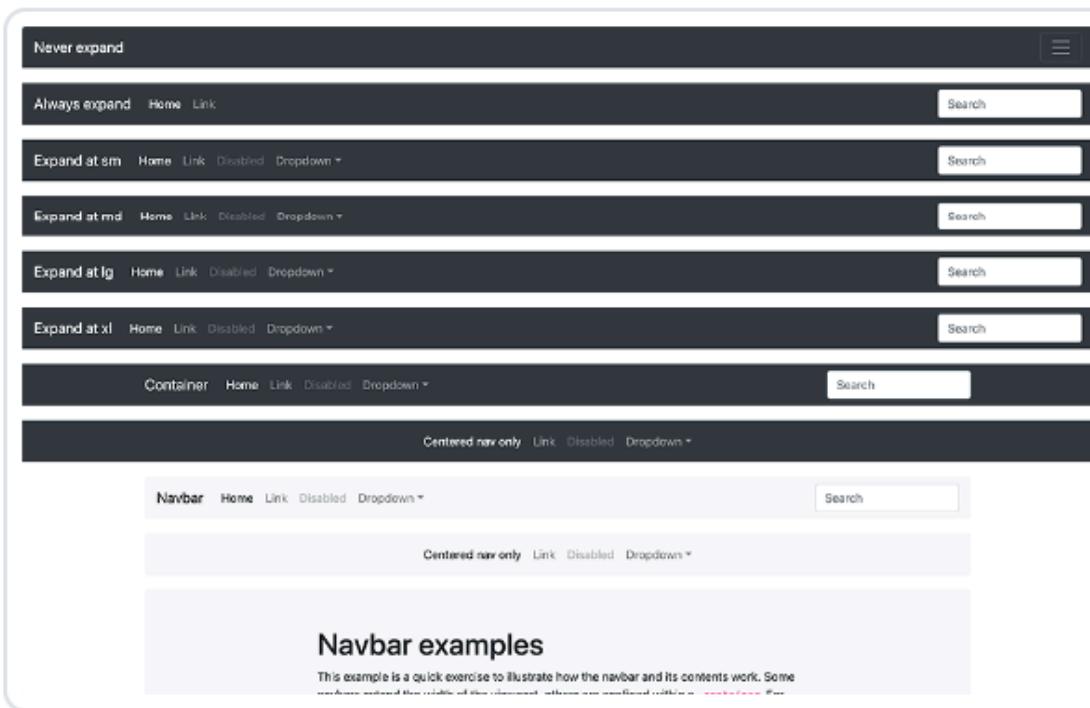
HTML



Snippets

Navbars

Taking the default navbar component and showing how it can be moved, placed, and extended.



Navbars

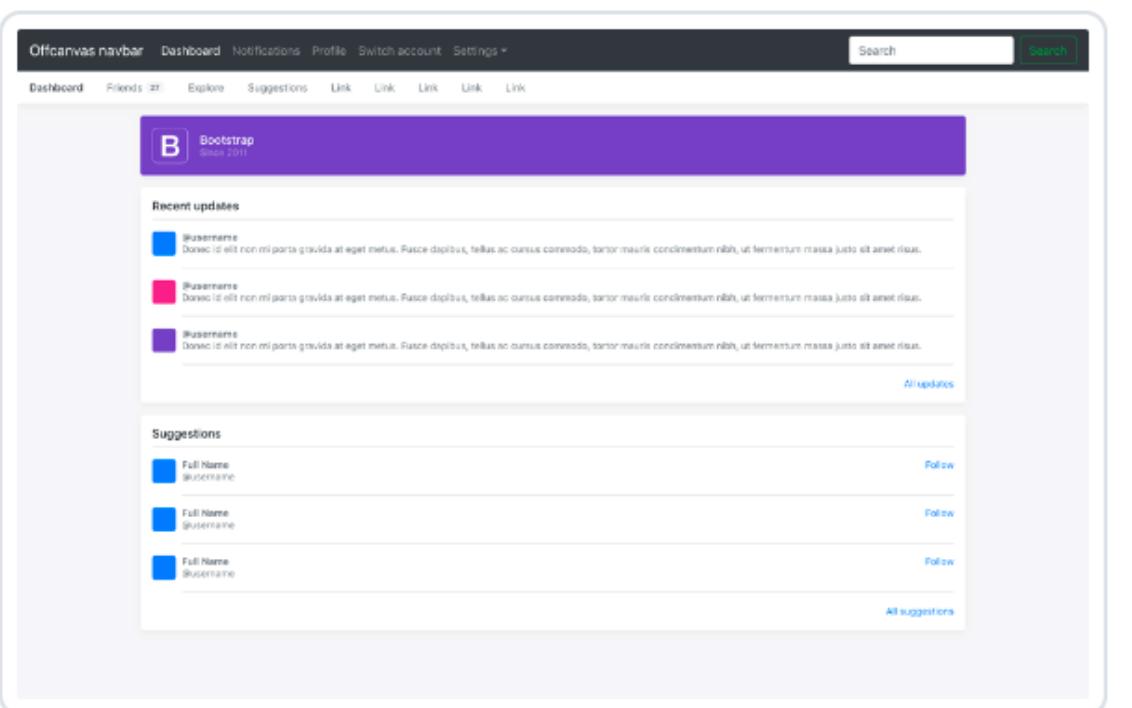
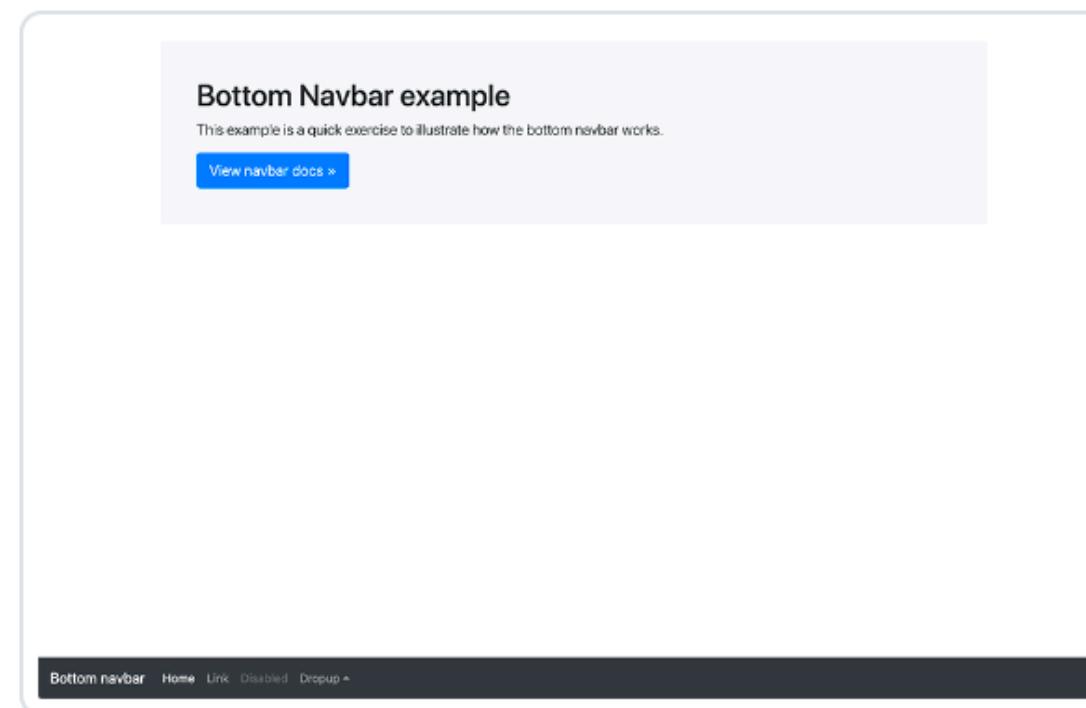
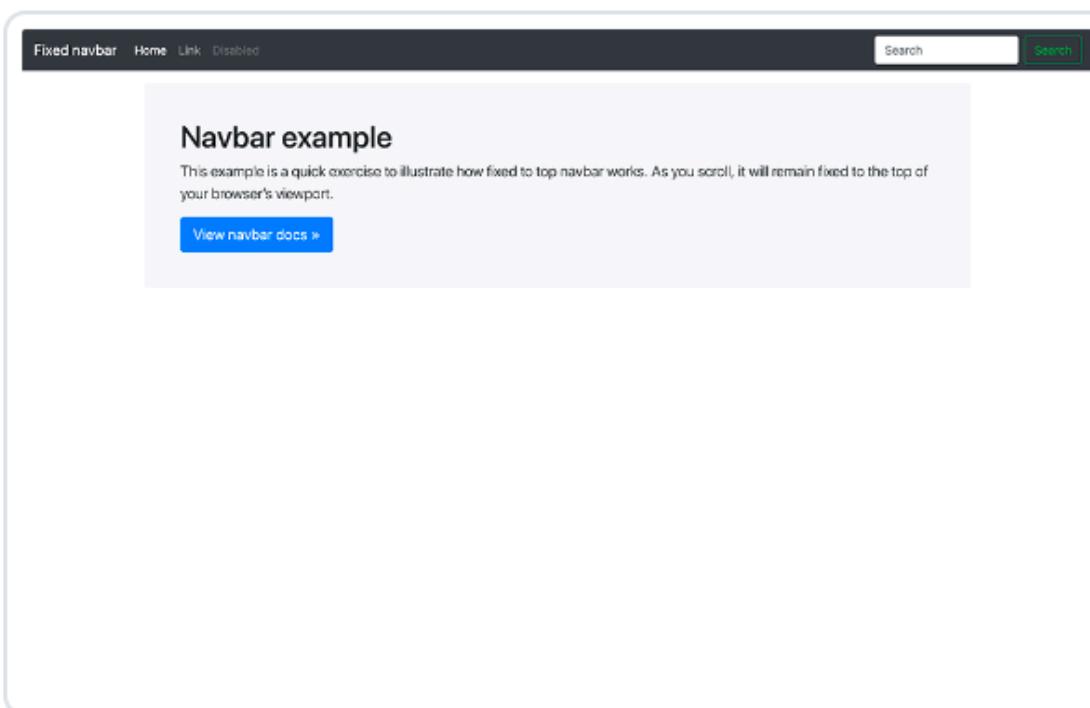
Demonstration of all responsive and container options for the navbar.

Navbars offcanvas

Same as the Navbars example, but with our offcanvas component.

Navbar static

Single navbar example of a static top navbar along with some additional content.



Navbar fixed

Single navbar example with a fixed top navbar along with some additional content.

Navbar bottom

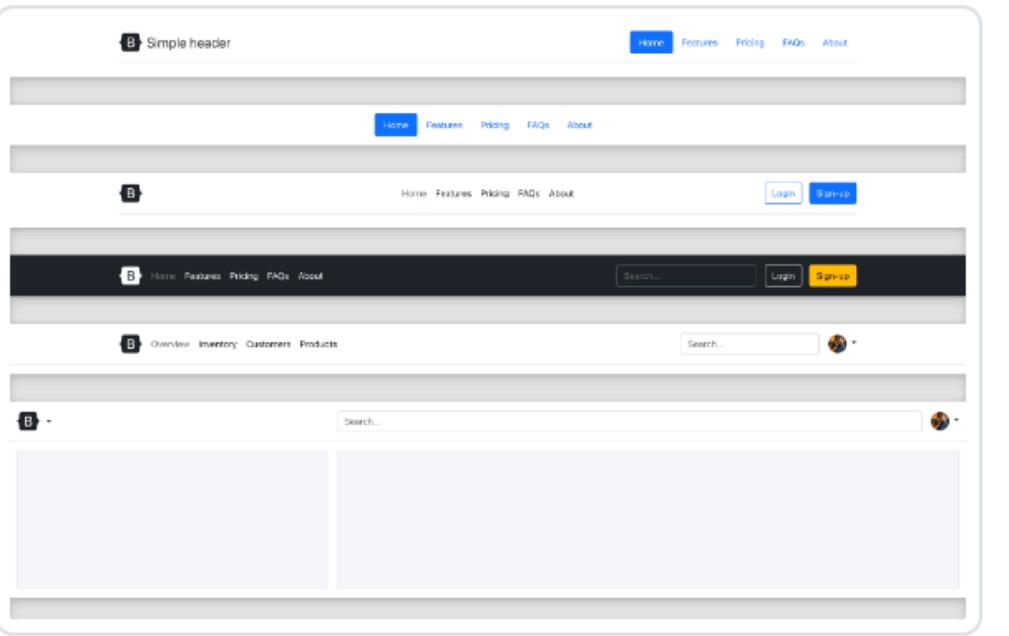
Single navbar example with a bottom navbar along with some additional content.

Offcanvas navbar

Turn your expandable navbar into a sliding offcanvas menu (doesn't use our offcanvas component).

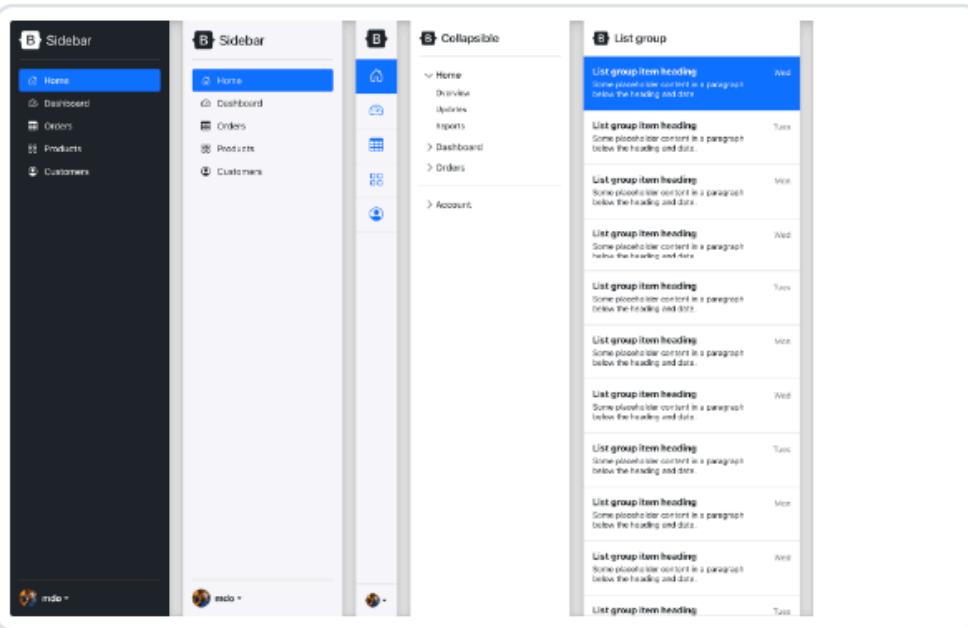
Snippets

Common patterns for building sites and apps that build on existing components and utilities with custom CSS and more.



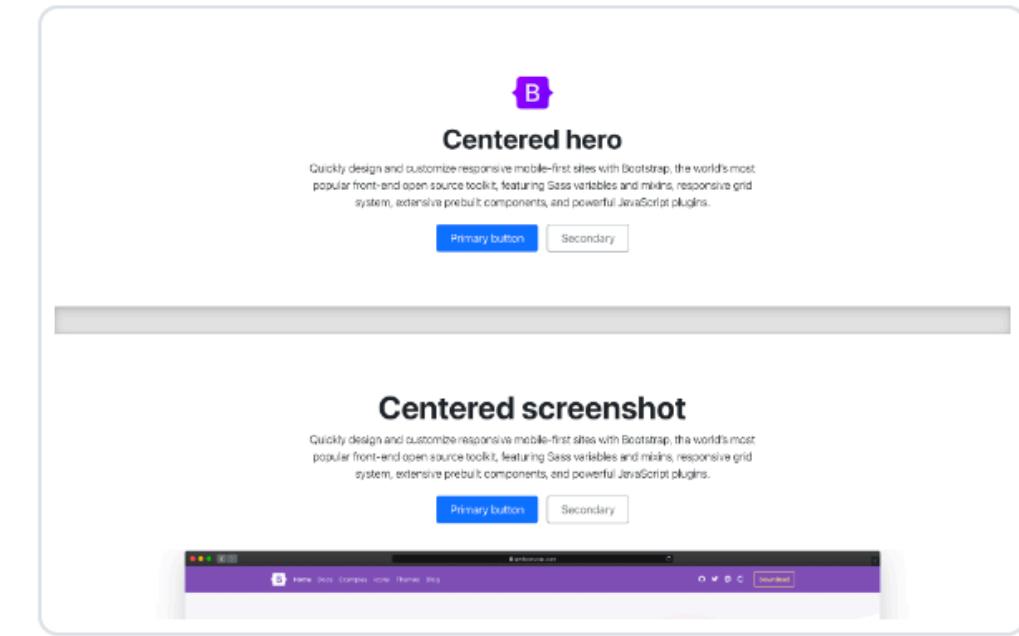
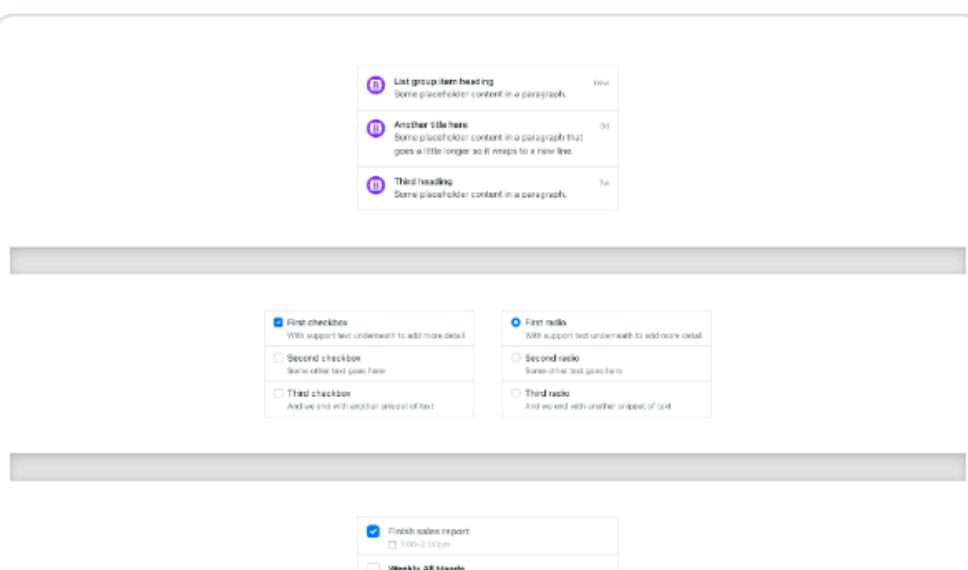
Headers

Display your branding, navigation, search, and more with these header components



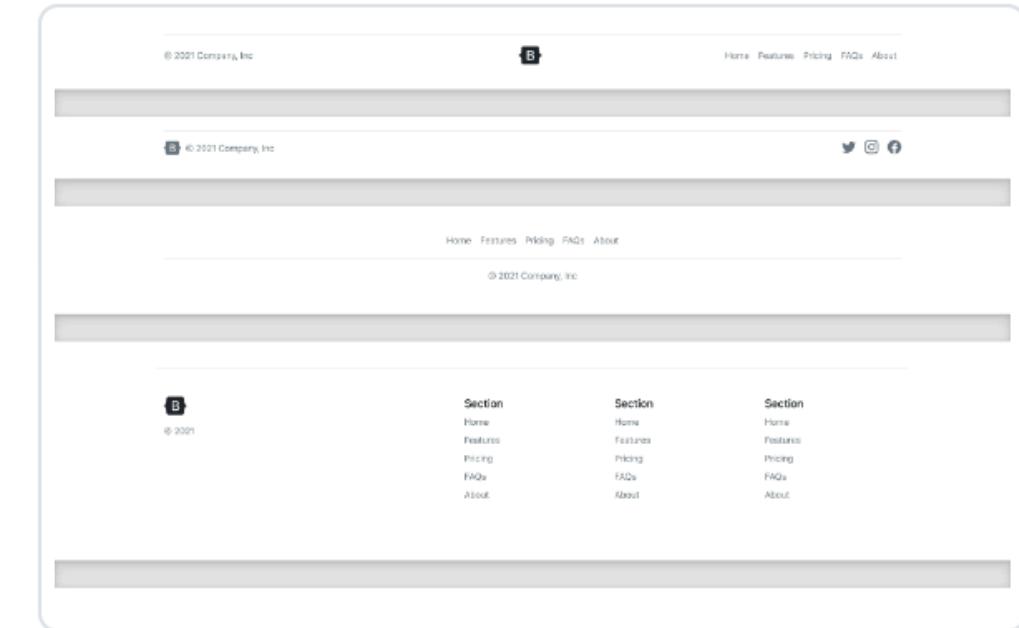
Sidebars

Common navigation patterns ideal for offcanvas or multi-column layouts.



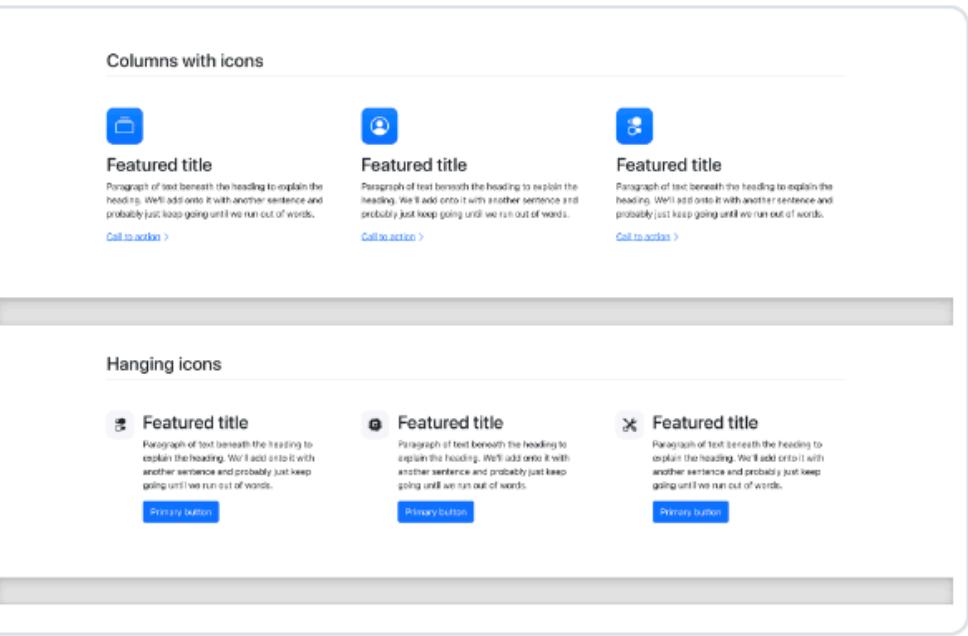
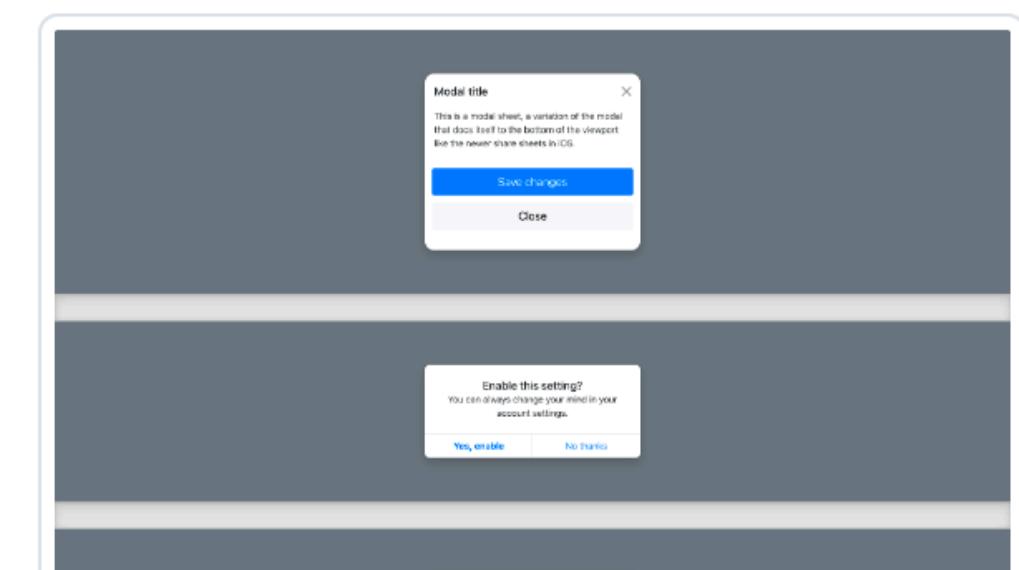
Heroes

Set the stage on your homepage with heroes that feature clear calls to action.



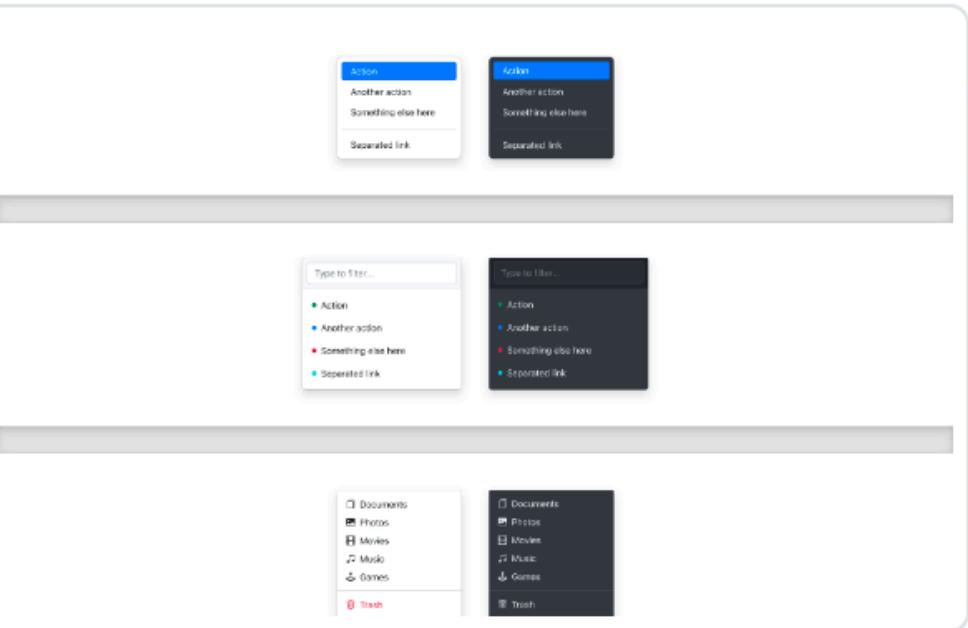
Footers

Finish every page strong with an awesome footer, big or small.



Features

Explain the features, benefits, or other details in your marketing content.

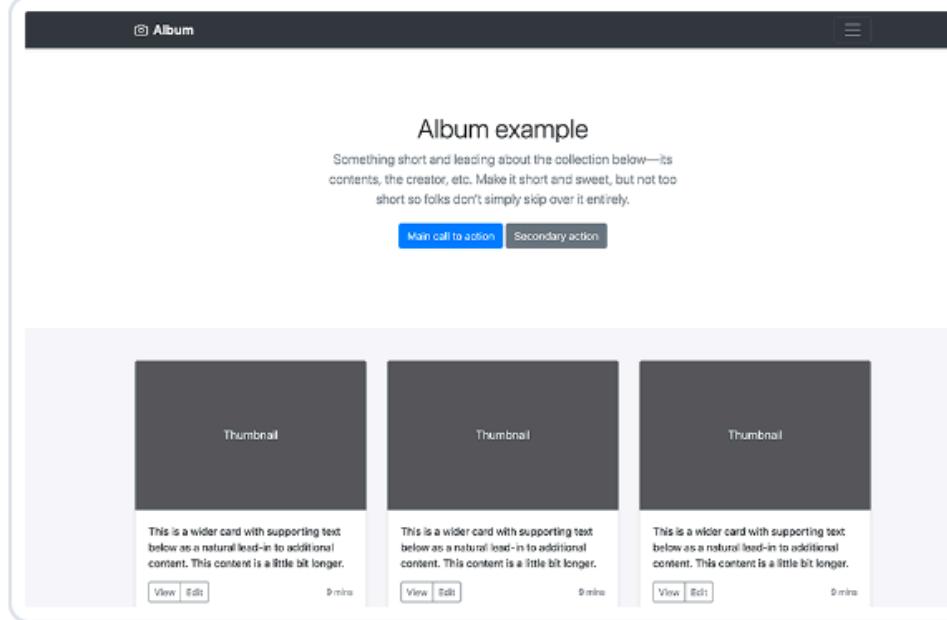


Dropdowns

Enhance your dropdowns with filters, icons, custom styles, and more.

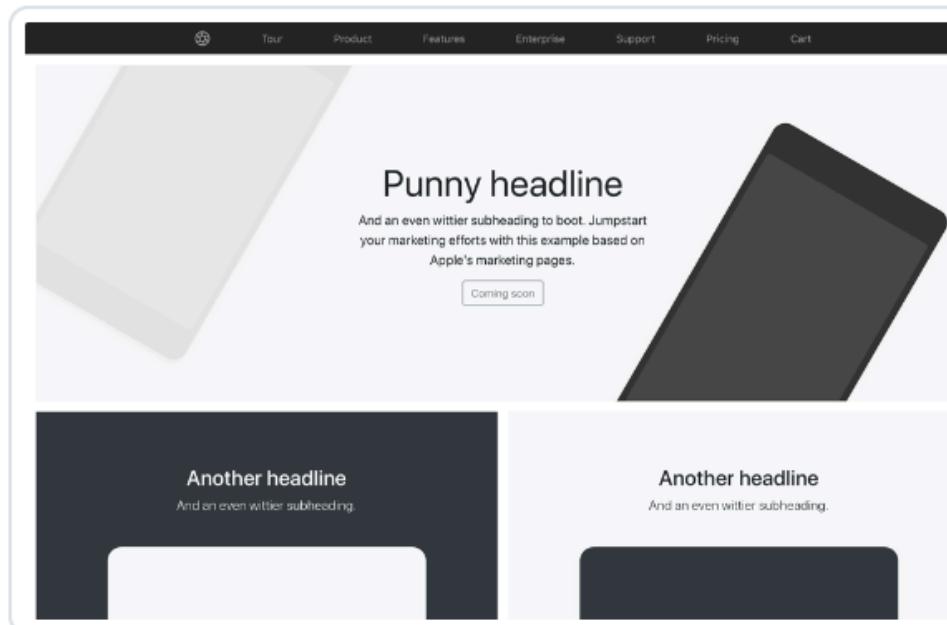
Custom Components

Brand-new components and templates to help folks quickly get started with Bootstrap and demonstrate best practices for adding onto the framework.



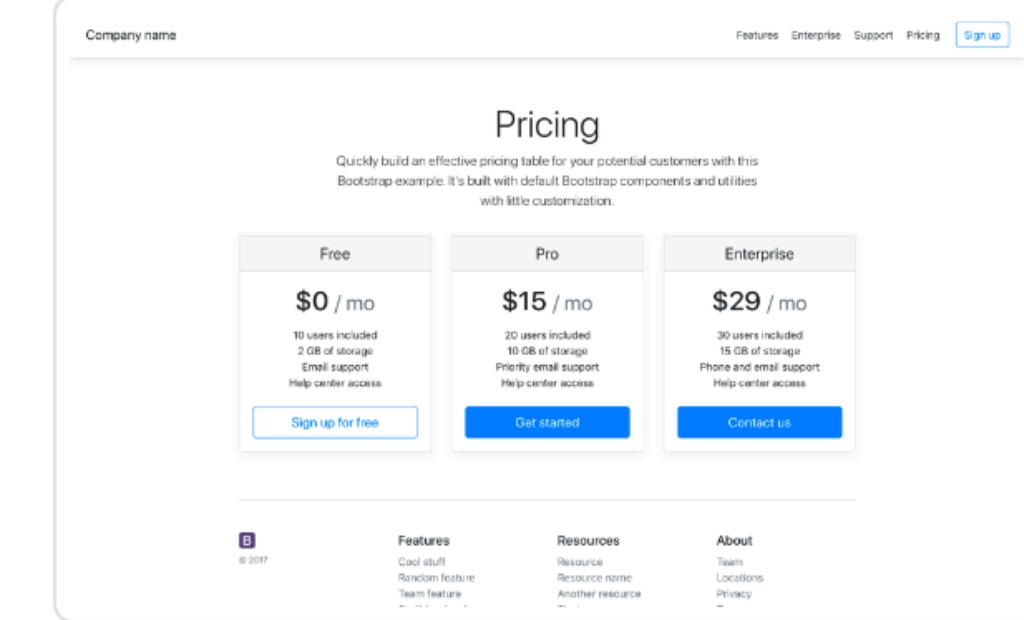
Album

Simple one-page template for photo galleries, portfolios, and more.



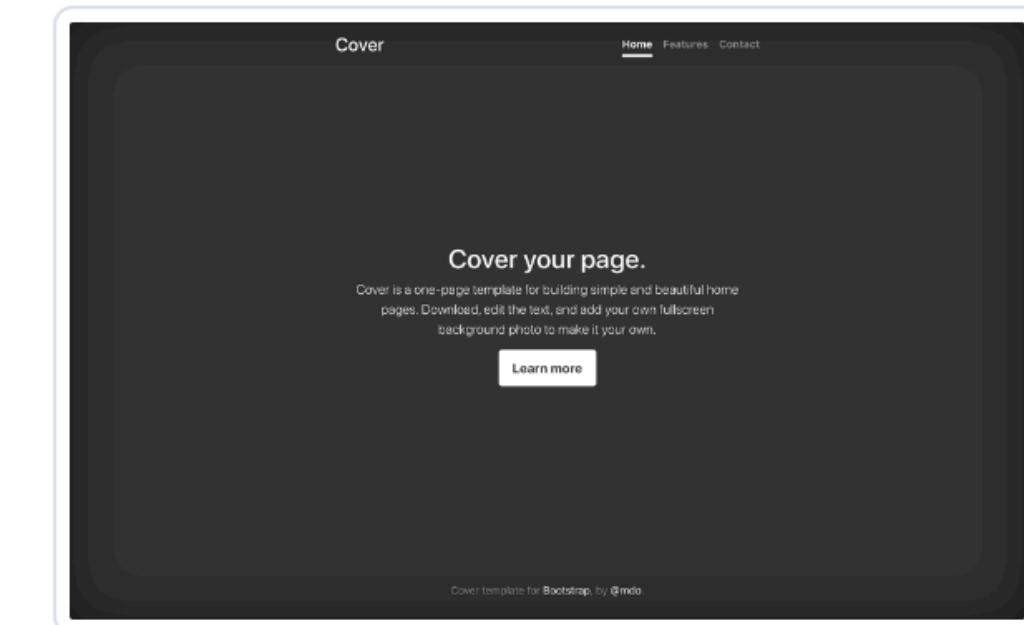
Product

Lean product-focused marketing page with extensive grid and image work.



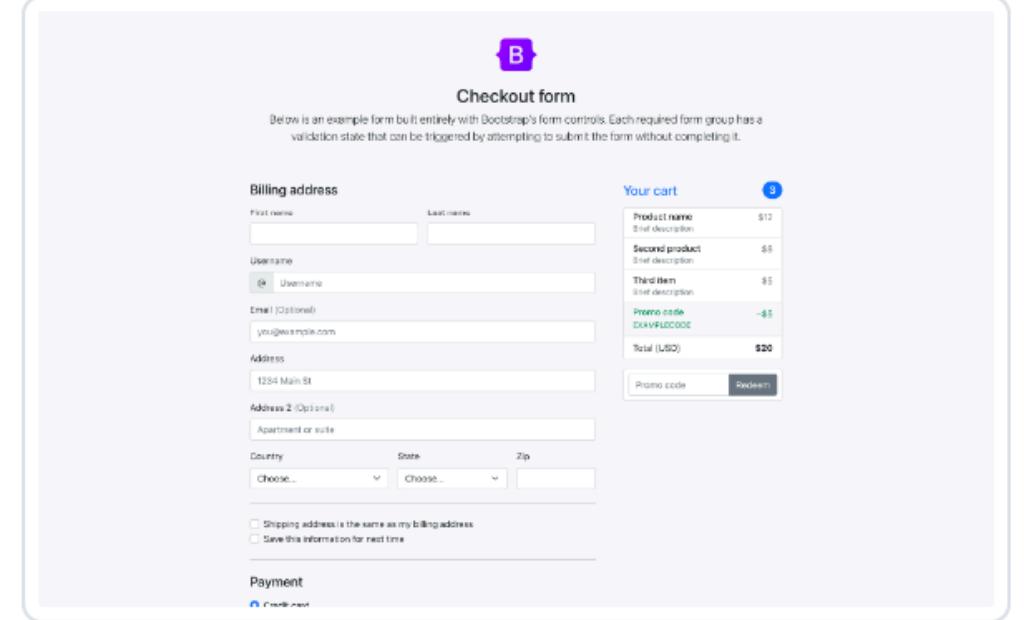
Pricing

Example pricing page built with Cards and featuring a custom header and footer.



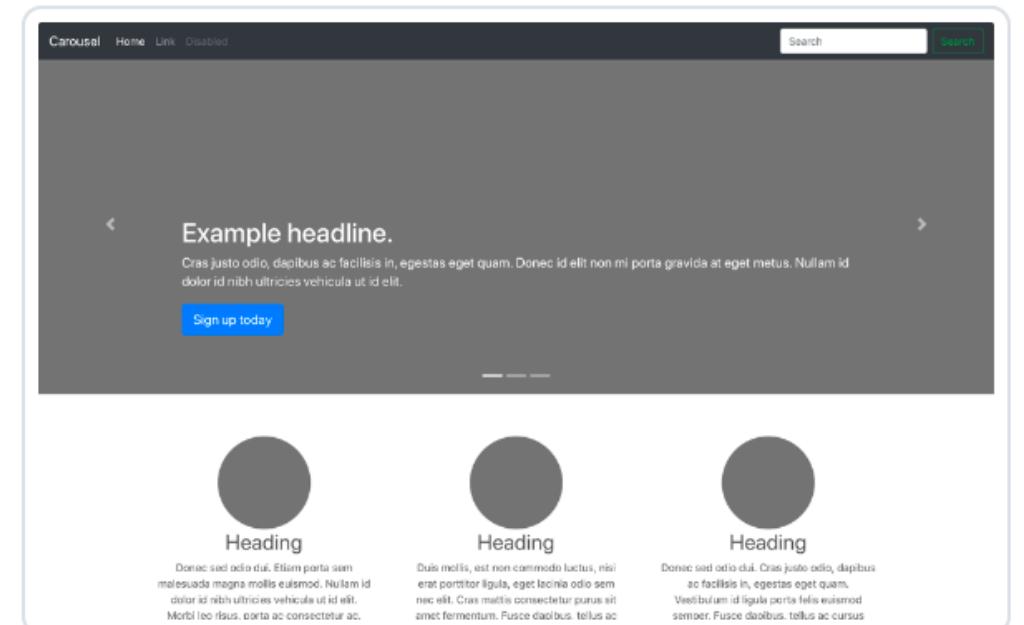
Cover

A one-page template for building simple and beautiful home pages.



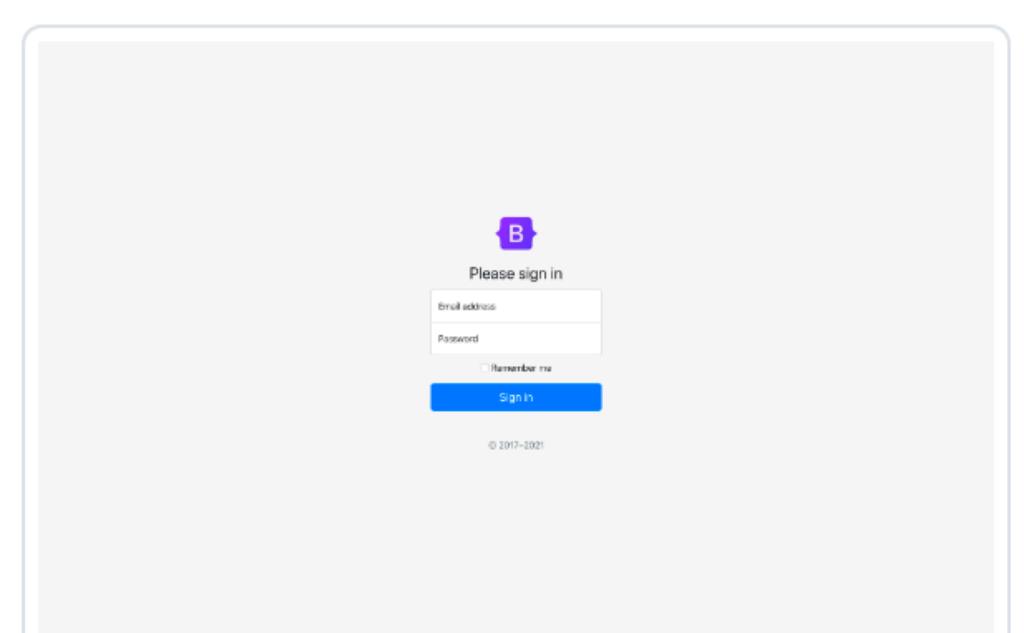
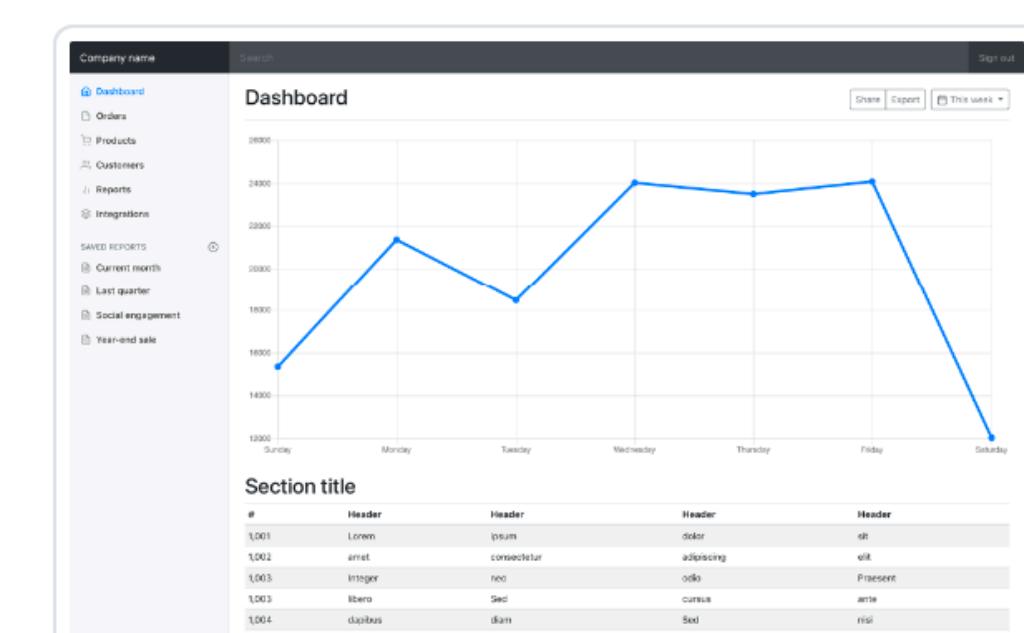
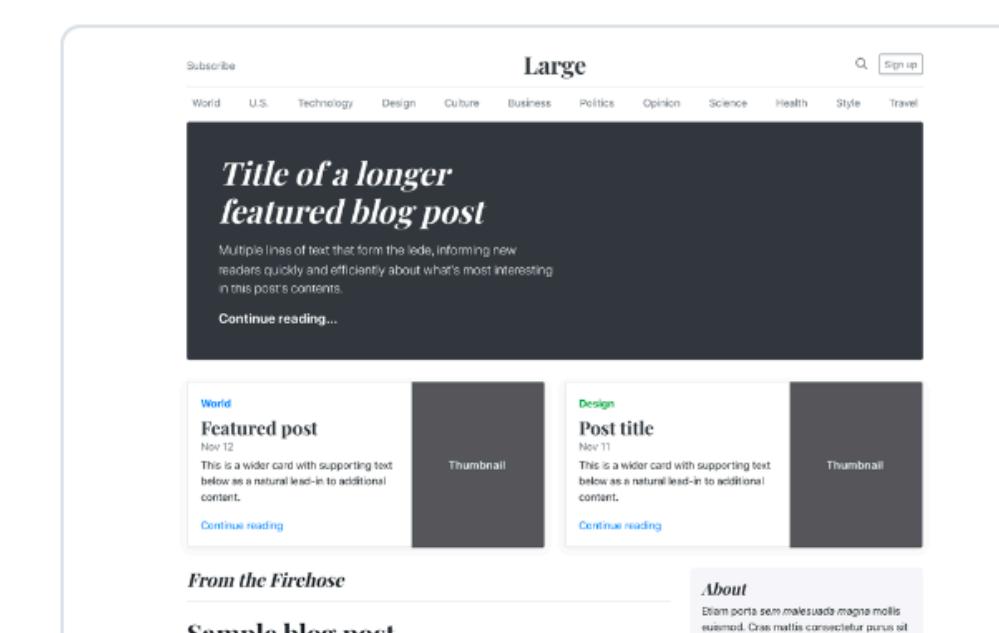
Checkout

Custom checkout form showing our form components and their validation features.



Carousel

Customize the navbar and carousel, then add some new components.



Helper Classes

.text-primary

.text-secondary

.text-success

.text-danger

.text-warning

.text-info

.text-light

.text-dark

.text-body

.text-muted

.text-white

.text-black-50

.text-white-50

.bg-primary

.bg-secondary

.bg-success

.bg-danger

.bg-warning

.bg-info

.bg-light

.bg-dark

.bg-body

.bg-white

.bg-transparent

Spacing

Where *property* is one of:

- **m** - for classes that set `margin`
- **p** - for classes that set `padding`

Where *sides* is one of:

- **t** - for classes that set `margin-top` or `padding-top`
- **b** - for classes that set `margin-bottom` or `padding-bottom`
- **s** - (start) for classes that set `margin-left` or `padding-left` in LTR, `margin-right` or `padding-right` in RTL
- **e** - (end) for classes that set `margin-right` or `padding-right` in LTR, `margin-left` or `padding-left` in RTL
- **x** - for classes that set both `*-left` and `*-right`
- **y** - for classes that set both `*-top` and `*-bottom`
- blank - for classes that set a `margin` or `padding` on all 4 sides of the element

Where *size* is one of:

- **0** - for classes that eliminate the `margin` or `padding` by setting it to `0`
- **1** - (by default) for classes that set the `margin` or `padding` to `$spacer * .25`
- **2** - (by default) for classes that set the `margin` or `padding` to `$spacer * .5`
- **3** - (by default) for classes that set the `margin` or `padding` to `$spacer`
- **4** - (by default) for classes that set the `margin` or `padding` to `$spacer * 1.5`
- **5** - (by default) for classes that set the `margin` or `padding` to `$spacer * 3`
- **auto** - for classes that set the `margin` to `auto`

Helpers

Clearfix
Color & background
Colored links
Position
Ratio
Stacks
Stretched link
Text truncation
Vertical rule
Visually hidden

Utilities

Background
Borders
Colors
Display
Flex
Float
Interactions
Opacity
Overflow

getbootstrap.com

To live coding...