



BASIC WEB TECHNIQUES

Bootstrap

GOALS FOR TODAY

- You know what Bootstrap is
- You know why we are using Bootstrap
- You know how to install Bootstrap
- You know the HTML/CSS Components of Bootstrap

WHAT IS BOOTSTRAP?

- Front-End framework (used on the Client not the Server) for UIs and themes
- Developed in HTML, CSS and JavaScript
- Building Responsive, mobile-first web applications and websites
 - Mobile-first means you design first for smaller screens and then work up to larger screens
- World's most popular framework
 - Originally developed by Twitter
- Consistency
 - usage of class names and style markups



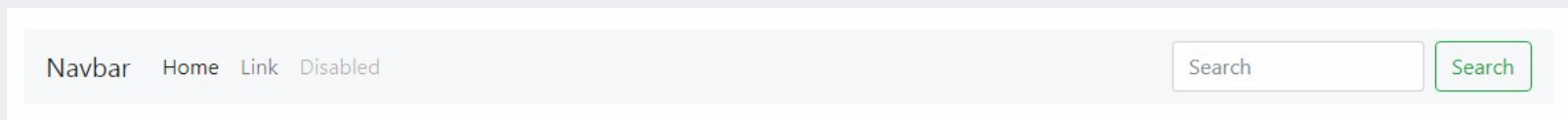
WHY USE BOOTSTRAP

- Increased development speed
 - there are already classes for alignment, style and positioning ready to use
- Responsiveness
 - grid system which supports mobile friendly website or application
- Consistency
 - Bootstrap was founded on this principle. Originally developed by a few Twitter employees as a framework to encourage consistency across internal tools.
 - Co-Founder mark Otto later realized it had potential beyond just an internal toolkit and released the first open-source version in August 2011.
 - Core Concept: pairing designers with developers
- Customizable
 - you can add your own classes or design to any bootstrap theme and it allows you to create really custom interfaces
- Support
 - very good documentation
 - huge community

<https://bootstrapbay.com/blog/reasons-to-use-bootstrap/>

HTML / CSS Components & Helpers

- Navbars
 - You can create responsive navigation headers



- Dropdowns
 - Dropdowns are toggleable, contextual overlays for displaying lists of links and more.



HTML / CSS Components & Helpers

- Jumbotrons
 - Lightweight, flexible component for showcasing hero unit style content.

Hello, world!

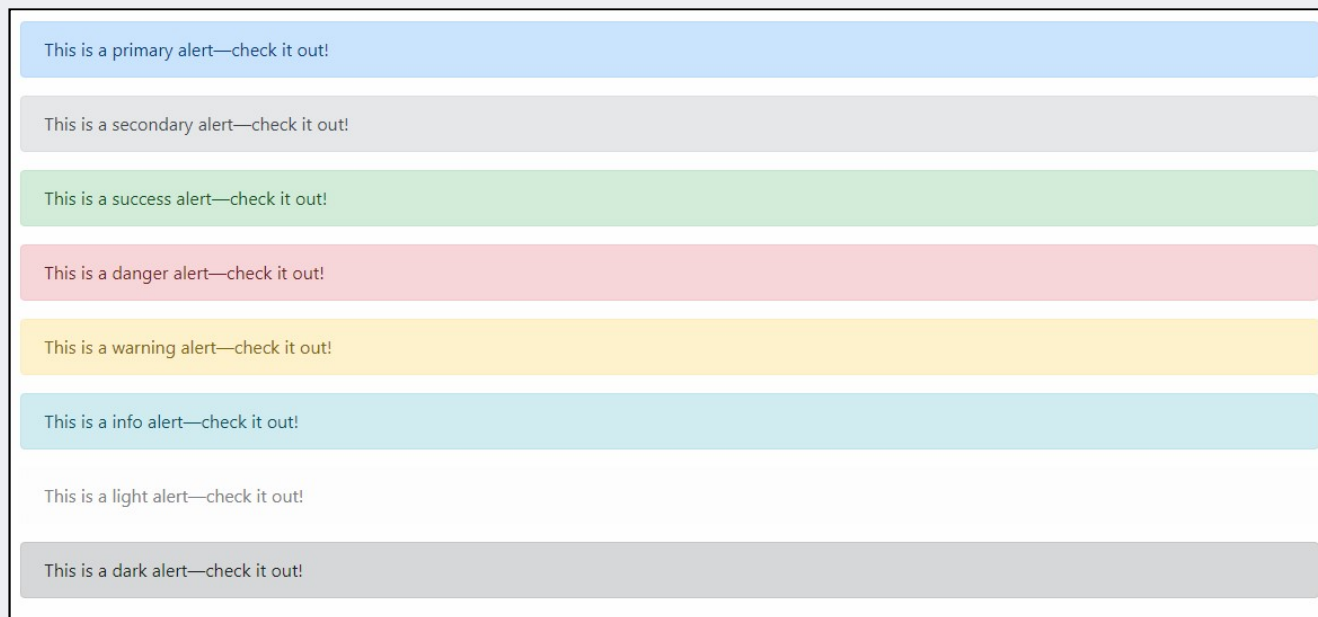
This is a simple hero unit, a simple jumbotron-style component for calling extra attention to featured content or information.

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

[Learn more](#)

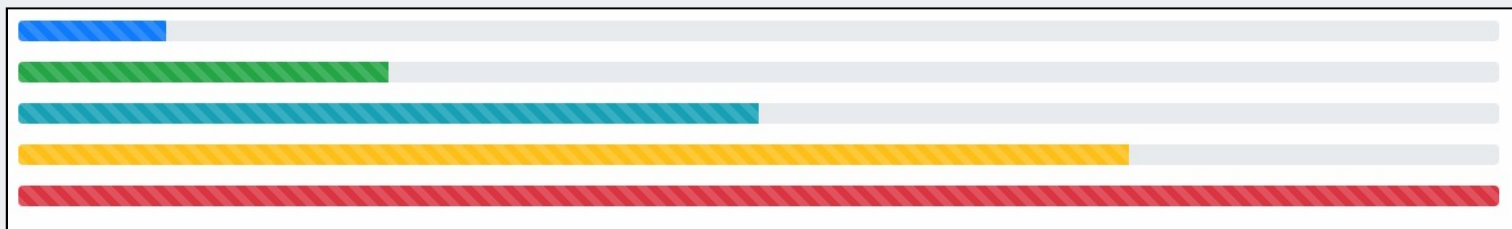
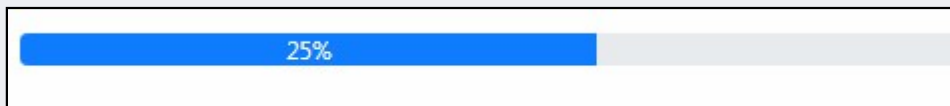
HTML / CSS Components & Helpers

- Alerts
 - Provide contextual feedback messages for typical user actions with the handful of available and flexible alert messages.



HTML / CSS Components & Helpers

- Progress Bars
 - Bootstrap custom progress bars featuring support for stacked bars, animated backgrounds, and text labels..



HTML / CSS Components & Helpers

- Forms & Input Groups
 - Examples and usage guidelines for form control styles, layout options, and custom components for creating a wide variety of forms.

Email address

We'll never share your email with anyone else.

Password

☐ Check me out

@ Username

Recipient's username

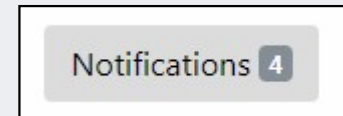
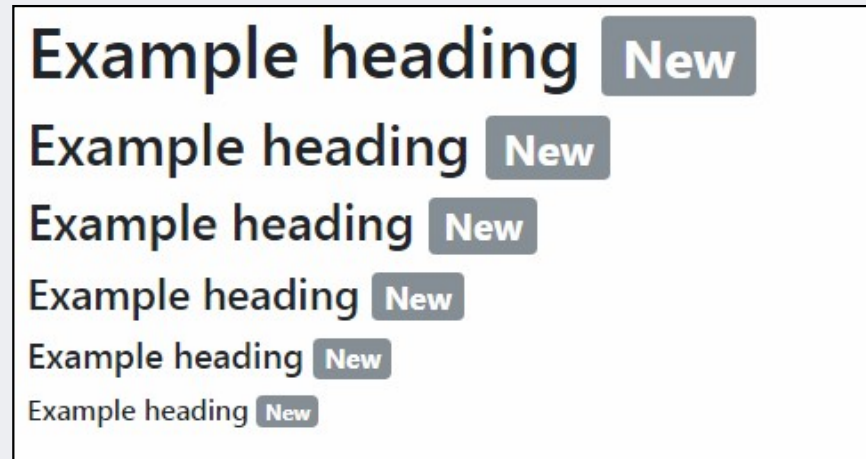
Your vanity URL

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\$ 0.00

HTML / CSS Components & Helpers

- Labels & Badges



HTML / CSS Components & Helpers

- Pagination
 - Documentation and examples for showing pagination to indicate a series of related content exists across multiple pages.



HTML / CSS Components & Helpers

- Tables
 - Documentation and examples for opt-in styling of tables

#	First Name	Last Name	Username
1	Mark	Otto	@mdo
2	Jacob	Thornton	@fat
3	Larry	the Bird	@twitter

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HTML / CSS Components & Helpers

- Grid System
 - powerful mobile-first flexbox grid to build layouts

1 of 2	2 of 2	
1 of 3	2 of 3	3 of 3

```
<div class="container">  
  <div class="row">  
    <div class="col">  
      1 of 2  
    </div>  
    <div class="col">  
      2 of 2  
    </div>  
  </div>  
  <div class="row">  
    <div class="col">  
      1 of 3  
    </div>  
    <div class="col">  
      2 of 3  
    </div>  
    <div class="col">  
      3 of 3  
    </div>  
  </div>  
</div>
```

[Copy](#)

Important globals

- Bootstrap employs a handful of important global styles and settings.
 - HTML5
 - Bootstrap requires the use of the HTML5 doctype.
 - `<!DOCTYPE html>`
 - Responsive Meta Tag
 - Bootstrap is developed mobile first, a strategy in which we optimize code for mobile devices first and then scale up components as necessary using CSS media queries.
 - `<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">`

Download / Install

- There are a different ways how to do it and there is more than what is listed below.
 - Bootstrap CDN (Content Delivery Network)
 - Just use the Bootstrap CDN links and paste them into you HTML file
 - Install with Package Managers e.g. Bower, npm, Composer
 - Download Source code → compile it yourself using Grunt
 - **Download Precompiled Bootstrap and empoly it in your HTML file(s). → We are using that approach**

<https://getbootstrap.com/docs/3.3/getting-started/>