## Bootstrap A Quick Introduction

### R. Scott Granneman & Jans Carton

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2.8

## Notes & URLs for this presentation can be found...

- » underneath the link to this slide show on granneman.com
- Bootstrap.txt

» at files.granneman.com/presentations/webdev/



If you want to build a responsive website — whether you use Bootstrap or not — your webpage *must* have *the magic tag* in it

The magic tag makes all responsive design possible

Start with this basic HTML template, or modify these examples. We hope you'll customize our templates and examples, adapting them to suit your needs.

Copy the HTML below to begin working with a minimal Bootstrap document.

```
<!DOCTYPE html>
<html lang="en">
      <head>
            <meta charset="utf-8">
            <meta http-equiv="X-UA-Compatible" content="IE=edge">
            <meta name="viewport" content="width=device-width, initial-scale=1">
            <title>Bootstrap 101 Template</title>
            <!-- Bootstrap -->
            k href="css/bootstrap.min.css" rel="stylesheet">
            <!-- HTML5 Shim and Respond.js IE8 support of HTML5 elements and media queries -->
            <!-- WARNING: Respond.js doesn't work if you view the page via file:// -->
            <!--[if lt IE 9]>
                  <script src="https://oss.maxcdn.com/libs/html5shiv/3.7.0/html5shiv.js"></script></script></script>
                  <script src="https://oss.maxcdn.com/libs/respond.js/1.4.2/respond.min.js"></script>
            <![endif]-->
      </head>
      <body>
            <h1>Hello, world!</h1>
            <!-- jQuery (necessary for Bootstrap's JavaScript plugins) -->
            <script src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.0/jquery.min.js"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script
            <!-- Include all compiled plugins (below), or include individual files as needed -->
            <script src="js/bootstrap.min.js"></script></script></script></script></script></script></script>
      </body>
</html>
```





Download What's included

### **Basic template**

Examples Community **Disabling responsiveness** Migrating from 2.x to 3.0 Browser and device support Third party support Accessibility License FAQs Customizing Bootstrap **Translations** 

Back to top

width, initial-scale=1">

## <meta name="viewport" content="width=device-

## By default, mobile browse fill the device screen

By default, mobile browsers zoom websites so that they





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**Scott Granneman** is an <u>author</u>, <u>educator</u>, & partner in a Web development company in St. Louis, Missouri. Scott has written six books, contributed to two, and penned monthly columns for SecurityFocus and *Linux Magazine*. He is an Adjunct Professor at Washington University in St. Louis & Webster University, <u>teaching</u> <u>courses</u> on technology, security, web development, & the Internet. As a Principal of <u>WebSanity</u>, he plans, develops, and hosts websites for clients in 12 states using an open source, UNIX-based <u>content management system</u>. He has given <u>presentations</u> all over the United States, and loves speaking to people.

### News & Updates

Note: The following news items are personal in nature & are automatically selected from GranneBlog.

Subscribe to News via:

- <u>RSS Reader</u>
- Email

### Talk about Markdown to SLUUG this Wednesday November 7, 2011

I'll be giving a talk to the St. Louis UNIX Users Group next Wednesday night about Markdown, a tool I absolutely love. You're invited to come. Please do – I think you'll definitely learn a lot. Date: Wednesday, Nov. 9, 2011 Time: 6...

### Speaking at SLUUG: Amazing, Stupendous, Mind-Blowing Apps for iPad2 June 5, 2011

Jans Carton & I are delivering a talk at the St. Louis UNIX Users Group at 6:30 pm this Wednesday, 8 June 2011, titled "Amazing, Stupendous, Mind-Blowing Apps for iPad2". We'll be demoing iPad apps live for everyone. If you want to f...

### A solution to two-way task list syncing on a Mac & iPhone December 11, 2009

I just published a page on my website about a solution I've found to an important issue: how to keep task lists on my Mac & my iPhone that are synced. I used to use The Hit List, but the developer's failure to come up with an iPhone soluti...

### Linux Phrasebook in Russian

### November 29, 2009

My book, Linux Phrasebook, which is still selling well & still just as useful today as when it came out in 2006 (& will be for another decade or two, given how consistent the Linux command line is), has been translated into Russian. You can find i...

Outline for an Unpublished Linux Textbook

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elopment	Tech Info	Personal				

### **Key Site Links**

Pages you're probably looking for:

- Publications
- Summer Vacation 2007: The Plains
- Web Development Key Links
- Wash U: <u>Website Design &</u> <u>Development Syllabus</u>
- Webster U: <u>Programming for</u> Web Communications Syllabus
- Webster U: Intro to Web Programming Syllabus
- Webster U: <u>Senior Overview</u> <u>Syllabus</u>

However, when you responsively design a website, you do *not* want it to zoom—you want it to display responsively!

width, initial-scale=1">

Essentially, putting this in your <head> tells the browser that it should not zoom, & that you will handle how it looks in the browser yourself (by using responsive design)

## <meta name="viewport" content="width=device-

width, initial-scale=1">

width=device-width the width of the device

initial-scale=1 Sets the initial zoom level: 1 CSS pixel is equal to 1 viewport pixel, ergo, do not zoom

## <meta name="viewport" content="width=device-

## Tells browser that the website adapts to the browser's width, so the width of the viewport should be equal to

# Installation



# & Setup

## 3 methods to make Bootstrap available to use

1. *Manually download* Bootstrap & copy the files into your project

2. Link via CDN to Bootstrap's files online

3. Install via package manager like npm

## Manually Download

## Advantages of downloading

- » Available offline
- » Can open & read Bootstrap CSS & JS files
- » Can install using package manager (e.g., Bower or NPM)

## Disadvantages

- » You have to manage Bootstrap files & folders
- » I have to take extra time with students



## » You have to make sure your templates match your files



## Download & Install

## Bootstrap

Build responsive, mobile-first projects on the web with the world's most popular front-end component library.

Bootstrap is an open source toolkit for developing with HTML, CSS, and JS. Quickly prototype your ideas or build your entire app with our Sass variables and mixins, responsive grid system, extensive prebuilt components, and powerful plugins built on jQuery.

**Get started** 

Download

Currently v4.1.3

В







### getbootstrap.com

Search...

В

### Getting started

Introduction

### Download

Contents

Browsers & devices

JavaScript

Theming

Build tools

Webpack

Accessibility

Layout

Content

Components

Utilities

Extend

Migration

## Download

Download Bootstrap to get the compiled CSS and JavaScript, source code, or include it with your favorite package managers like npm, RubyGems, and more.

### **Compiled CSS and JS**

Download ready-to-use compiled code for **Bootstrap v4.1.3** to easily drop into your project, which includes:

- Compiled and minified CSS bundles (see CSS files comparison)
- Compiled and minified JavaScript plugins

This doesn't include documentation, source files, or any optional JavaScript dependencies (jQuery and Popper.js).

Download

Source files

Compiled CSS and JS Source files BootstrapCDN Package managers npm RubyGems Composer NuGet





## You will download a file named something like bootstrap-4.1.3-dist.zip into your Downloads folder

## Unzip that file & extract the contents to its own folder



# dist

Mac users, just double-click on the zip file & you will have a folder named something like bootstrap-4.1.3-

Windows users, right-click on bootstrap-4.1.3dist.zip&selectExtractHere

▼	CSS
	bootstrap-grid.css
	bootstrap-grid.css.map
	bootstrap-grid.min.css
	bootstrap-grid.min.css.map
	bootstrap-reboot.css
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	bootstrap.min.js
	bootstrap.min.js.map

## Remove unnecessary files





### bootstrap.min.css bootstrap.min.js

## The .min stands for *minified*

## What's minification?

## SIDE NOTE"



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Working Files	*	¢
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<pre># bootstrap.css</pre>		
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▶ fonts		
<> index.htm		
► js		

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8	font-family
9	-webkit-tex
LO	-ms-tex
1	}
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L3	<pre>margin: 0;</pre>
L4	}
L5	article,
L6	aside,
L7	details,
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v3.3.6 (http://getbootstrap.com) 2011-2015 Twitter, Inc. Inder MIT hub.com/twbs/bootstrap/blob/master/LICE

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.css v3.0.3 | MIT License
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<ul> <li># bootstrap.css</li> <li>bootstrap.min.css</li> <li>fonts</li> <li>index.htm</li> </ul>		6748 6749 6750 ▼ 6751 ▼ 6752	<pre>display } @media pr .visibl     displ</pre>
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```



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Working Files

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bootstrap-3.3.6 -

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# bootstrap.css

bootstrap.min.css

- ▶ fonts
- <> index.htm

▶ js

\* Licensed under MIT (https://github.com/twbs/bootstrap/blob/master/LICE NSE) \*//\*! normalize.css v3.0.3 | MIT License github.com/necolas/normalize.css \*/html{fontfamily:sans-serif;-webkit-text-size-adjust:100%;ms-text-sizeadjust:100%}body{margin:0}article,aside,details,fig caption, figure, footer, header, hgroup, main, menu, nav, s ection,summary{display:block}audio,canvas,progress, video{display:inline-block;verticalalign:baseline}audio:not([controls]) {display:none;height:0} [hidden],template{display:none}a{backgroundcolor:transparent}a:active,a:hover{outline:0}abbr[t itle]{border-bottom:1px dotted}b,strong{fontweight:700}dfn{font-style:italic}h1{margin:.67em **^** • **L** • • **L** 

\* Bootstrap v3.3.6 (http://getbootstrap.com) \* Copyright 2011-2015 Twitter, Inc.

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6

Errors: 115 INS CSS



## Rename the folder bootstrap-4.1.3-dist so that it's now bootstrap-101

Drag the bootstrap-101 folder into your Web Dev Projects folder

Template

## Your <head> should look like this...

<head> <meta charset="utf-8"> <meta http-equiv="X-UA-Compatible" content="IE=edge"> width, initial-scale=1"> <title>Untitled</title>

<link rel="stylesheet" href="/css/</pre> bootstrap.css"> </head>

- <meta name="viewport" content="width=device-
- <link rel="stylesheet" href="/css/main.css">

## And your <body> like this...

### <body> <h1>Hello, world!</h1>

<script src="https://ajax.googleapis.com/</pre> ajax/libs/jquery/1.11.2/jquery.min.js"></ script> <script src="/js/bootstrap.js"></script> </body>

## You *must* keep the JavaSc dropdown menus)

You *must* keep the JavaScript, or things will break (e.g.,

## that depend on it (like bootstrap.js)

libs/jquery/1.11.2/jquery.min.js"></script> <script src="js/bootstrap.js"></script>

Otherwise, leave the jQuery <script> alone

Make sure jQuery comes *before* any other JavaScripts

<script src="https://ajax.googleapis.com/ajax/</pre>


### What is jQuery?

Most popular (73% of top 10 million websites!)JavaScript library, designed to simplify client-side scripting

Lots of other JavaScripts depend upon jQuery (like Bootstrap)

The dependency upon jQuery is removed in Bootstrap 5

#### SIDE NOTE



# Link via CDN



#### What's a *CDN* anyway?

"A content delivery network is a highly-distributed platform of servers that responds directly to end user requests for web content. It acts as an intermediary between a content server, also known as the origin, and its end users or clients. ... Content Delivery Networks, also known as CDNs, carry nearly half of the world's Internet traffic." —Akamai's CDN Learning Center

#### SIDE NOTE





### Akamai is one of the largest CDNs in the world

### Akamai serves 15–30% of all Web traffic

"The company operates a network of servers around the world and rents capacity on these servers to customers who want their websites to work faster by distributing content from locations close to the user. When a user navigates to the URL of an Akamai customer, their browser is redirected to one of Akamai's copies of the website." —Wikipedia

SIDE NOTE





### SIDE NOTE

### Akamai's global reach



### Advantages of linking

- finished 😂
- » You do not have to manage extra files

#### Disadvantages

» No Internet, no files 🌾

#### » Create or use a template with the right links & you're

» Users already have it cached so it loads real quick like » I do not have to take extra time with students

#### » Cannot easily open & read Bootstrap CSS & JS files



#### If you're using Brackets, install my HTML Templates extension

- 1. Open the Extension Manager in Brackets
- Granneman
- 3. Click Install
- 4. Click Close
- 5. Reload when asked

2. Search for *HTML Templates*, *Updated* by Scott

#### Now use my HTML Templates extension

- 1. Create a file named index.html
- 2. Edit > HTML Templates...
- 3. Click the Framework Templates pop-up menu & select Bootstrap 3

## Using Visual Studio Code?

#### Go to the *Extensions View* & install File Templates Manager by Ivan Zakharchanka



#### FYI where templates are stored (in case you want to back them up)

~/Library/Application Support/Code/User/ CodeTemplates/



%HOME% \AppData\Roaming\Code\User\CodeTemplates\

#### SIDE NOTE



#### Edit the current HTML template & copy over it with mine:

HTML5 template: http://chnsa.ws/1b1

Create 2 new templates & use the following:

Bootstrap 3 CDN template: http://chnsa.ws/1b2 Bootstrap 4 CDN template: http://chnsa.ws/1b3

#### If you're instead building a template or page by hand...

- 1. Use the standard template at https:// #template
- 2. Substitute the links to CSS & JS in the standard template with those found at https:// Optional Theme)

getbootstrap.com/docs/3.3/getting-started/

getbootstrap.com/docs/3.3/getting-started/ #download-cdn (ignore the second one, to the



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bootstrap-cdn.html

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### Manual installation; no CDN

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#### CDN always used for jQuery

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Working Files

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# Bootstrap

JavaScript for you to use with your site

Link to the default CSS in your <head> & the JavaScript in <body>, & use the CSS classes that Bootstrap provides in your HTML

# Bootstrap is really just a collection of pre-made CSS &

#### Want to change Bootstrap's default styles or scripting behaviors?

Do not edit the default CSS & JavaScript!

Next time you upgrade, all your changes go poof

to bootstrap.css

<link rel="stylesheet" href="https://</pre> stackpath.bootstrapcdn.com/.../ bootstrap.min.css" ...>

Override Bootstrap's CSS as needed in your CSS

#### Instead, create your own CSS & link to it *after* you link

- <link rel="stylesheet" href="/css/main.css">

### You would do the same thing with bootstrap.js

#### PRO TIP-



#### How do you know which Bootstrap classes to use, & which classes do what?

bootstrap.css is ~9000 lines—do not read it!

Read the documentation at getbootstrap.com

### Bootstrap

Build responsive, mobile-first projects on the web with the world's most popular front-end component library.

Bootstrap is an open source toolkit for developing with HTML, CSS, and JS. Quickly prototype your ideas or build your entire app with our Sass variables and mixins, responsive grid system, extensive prebuilt components, and powerful plugins built on jQuery.

**Get started** 

Download

Currently v4.1.3

В

y #  $\mathbf{O}$ v4.1 🔻





### Bootstrap

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Get started with Bootstrap, the world's most popular framework for building responsive, mobile-first sites, with BootstrapCDN and a template starter page.

#### **Quick start**

Looking to quickly add Bootstrap to your project? Use BootstrapCDN, provided for free by the folks at StackPath. Using a package manager or need to download the source files? Head to the downloads page.

#### CSS

Copy-paste the stylesheet link> into your <head> before all other stylesheets to load our CSS.

Copy <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/cs</pre>

CSS JS Starter template Important globals HTML5 doctype Responsive meta tag Box-sizing Reboot

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### Examples

В

Quickly get a project started with any of our examples ranging from using parts of the framework to custom components and layouts.

**Download source code** 

#### Custom components

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

	Alb	um example	9		
Some the cre	thing short and leadir sator, etc. Make it sho	ng about the collection rt and sweet, but not to	belowits contents so short so folks don	1	
	simp	ly skip over it entirely.			
	Enablish				

					В		
	Quickly build an effi Bootstrap example.	Pricing ective pricing table for your potential It's built with default Bootstrap comp with little customization.	customers with this onents and utilities	Below is an example to validation state the	Checkout for m built entirely with Bootstrap's for it can be triggered by attempting to	orm on controls. Each required form group submit the form without completing	p has a it,
	-			Billing address		Your cart	0
	Free	Pro	Enterprise	 First name	Last name	Product name brief description	\$12
\$	<b>60</b> / mo	<b>\$15</b> / mo	<b>\$29</b> / mo	Username		Second product brief description	54
104 2 0 6	users included GB of storage Email support	20 users included 10 GB of storage Priority email support	30 users included 15 GB of storage Phone and email support	Username     Dnal (Optional)		Third items Brief description	\$5
Help	lp center access	Help-center access	Help center access	youthexample.com		Promo code Exampleccos	-45
Sa	on up for free	Get started	Contact us	Addesses			





Bootstrap Themes Categories Why Our Themes? Sell themes





Themes built by or reviewed by Bootstrap's creators.

#### **Built by Bootstrap Team**

Component-based frameworks designed, built, and supported by the Bootstrap Team.



Why our themes?





#### Bootstrap Expo

Beautiful and inspiring uses of **Bootstrap**, curated by @mdo.

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#### Fully coded UI Tools to create web apps

UI Kits and Dashboards built on top of Bootstrap, Vue.js, React and Angular.

Forbes

.







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speckyboy



#### The Bootstrap Blog

News and announcements for all things Bootstrap, including new releases and Bootstrap Themes.

#### Bootstrap 4.1.3

24 Jul 2018



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Copy <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/cs</pre>

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### Overview

Components and options for laying out your Bootstrap project, including wrapping containers, a powerful grid system, a flexible media object, and responsive utility classes.

#### Containers #

Containers are the most basic layout element in Bootstrap and are **required** when using our default grid system. Choose from a responsive, fixed-width container (meaning its max-width changes at each breakpoint) or fluid-width (meaning it's 100% wide all the time).

While containers *can* be nested, most layouts do not require a nested container.

Containers Responsive breakpoints Z-index



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### Reboot

Reboot, a collection of element-specific CSS changes in a single file, kickstart Bootstrap to provide an elegant, consistent, and simple baseline to build upon.

#### Approach

Reboot builds upon Normalize, providing many HTML elements with somewhat opinionated styles using only element selectors. Additional styling is done only with classes. For example, we reboot some styles for a simpler baseline and later provide .table, .table-bordered, and more.

Here are our guidelines and reasons for choosing what to override in Reboot:

- Update some browser default values to use rems instead of ems for scalable component spacing.
- Avoid margin-top. Vertical margins can collapse, yielding unexpected results. More importantly though, a single direction of margin is a simpler mental model.
- For easier scaling across device sizes, block elements should use rems for

Approach Page defaults Native font stack Headings and paragraphs Lists Preformatted text Tables Forms Misc elements Address Blockquote Inline elements Summary HTML5 [hidden] attribute











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**Buttons** 

Button group

Card

Carousel

Collapse

Dropdowns

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Input group

Jumbotron

List aroun

### Alerts

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

#### Examples

Alerts are available for any length of text, as well as an optional dismiss button. For proper styling, use one of the eight **required** contextual classes (e.g., .alert-success). For inline dismissal, use the alerts jQuery plugin.

A simple primary alert—check it out! A simple secondary alert—check it out! A simple success alert—check it out!

Examples Link color Additional content Dismissing JavaScript behavior Triggers Methods **Events** 



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### Borders

Use border utilities to quickly style the border and borderradius of an element. Great for images, buttons, or any other element.

#### Border

Use border utilities to add or remove an element's borders. Choose from all borders or one at a time.

#### Additive



<span class="border"></span>

Border Additive Subtractive Border color Border-radius


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# Approach

Learn about the guiding principles, strategies, and techniques used to build and maintain Bootstrap so you can more easily customize and extend it yourself.

While the getting started pages provide an introductory tour of the project and what it offers, this document focuses on *why* we do the things we do in Bootstrap. It explains our philosophy to building on the web so that others can learn from us, contribute with us, and help us improve.

See something that doesn't sound right, or perhaps could be done better? Open an issue—we'd love to discuss it with you.

## Summary

We'll dive into each of these more throughout, but at a high level, here's what guides our approach.

- Components should be responsive and mobile-first
- Components should be built with a base class and extended via modifier classes



#

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# Migrating to v4

Bootstrap 4 is a major rewrite of the entire project. The most notable changes are summarized below, followed by more specific changes to relevant components.

## Stable changes

Moving from Beta 3 to our stable v4.0 release, there are no breaking changes, but there are some notable changes.

#### Printing

- Fixed broken print utilities. Previously, using a .d-print-\* class would unexpectedly overrule any other . d-\* class. Now, they match our other display utilities and only apply to that media (@media print).
- Expanded available print display utilities to match other utilities. Beta 3 and older only had block, inline-block, inline, and none. Stable v4 added flex, inline-flex, table, table-row, and table-cell.
- Fixed print preview rendering across browsers with new print styles that

Stable changes Printing Beta 3 changes Miscellaneous Forms Input groups Beta 2 changes Breaking Highlights Summary Browser support **Global changes** Grid system Components By component Reboot Typography Images Tables Forms Buttons Button group Drondowns

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# About

Learn more about the team maintaining Bootstrap, how and why the project started, and how to get involved.

## Team

Bootstrap is maintained by a small team of developers on GitHub. We're actively looking to grow this team and would love to hear from you if you're excited about CSS at scale, writing and maintaining vanilla JavaScript plugins, and improving build tooling processes for frontend code.

## History

Originally created by a designer and a developer at Twitter, Bootstrap has become one of the most popular front-end frameworks and open source projects in the world.

Bootstrap was created at Twitter in mid-2010 by @mdo and @fat. Prior to being an open-sourced framework, Bootstrap was known as *Twitter Blueprint*. A few months into development, Twitter held its first Hack Week and the project



Ŧ

# So let's say I want to make interesting looking

So let's say I want to make some images responsive &

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# Images

Documentation and examples for opting images into responsive behavior (so they never become larger than their parent elements) and add lightweight styles to them—all via classes.

## **Responsive images**

Images in Bootstrap are made responsive with .img-fluid. max-width: 100%; and height: auto; are applied to the image so that it scales with the parent element.



Responsive images Image thumbnails Aligning images Picture





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### Image thumbnails

In addition to our border-radius utilities, you can use .img-thumbnail to give an image a rounded 1px border appearance.



<img src="..." alt="..." class="img-thumbnail">

## Aligning images

Align images with the helper float classes or text alignment classes. block-level images can be centered using the .mx-auto margin utility class.

v4.1 🕶 🗭 🎔 🛞

Responsive images Image thumbnails Aligning images Picture

Сору





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# Borders

Use border utilities to quickly style the border and borderradius of an element. Great for images, buttons, or any other element.

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Use border utilities to add or remove an element's borders. Choose from all borders or one at a time.

#### Additive



<span class="border"></span>

Border Additive Subtractive

Border color Border-radius and the second second



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<span class= porder porder-warning</pre> <span class="border border-info"></</pre> <span class="border border-light"><</pre> <span class="border border-dark"></ <span class="border border-white"><</pre>

### **Border-radius**

Add classes to an element to easily round its corners.



#### v4.1 🕶 🗭 🎔 🤀

>	
'span>	
	B
'span>	
	В

Border Additive Subtractive

Border color

Border-radius



# want to override its CSS

- 1. Use your browser's Inspector to find the exact selector & declaration that Bootstrap uses in bootstrap.css
- into your main.css
- 3. Enter a new value in the declaration

Once you start using Bootstrap, you will sometimes

2. Copy that selector & declaration & then paste them

# An easy example, with an easy selector

complications to other image formats.

```
<img src="..." class="img-responsive" alt="Responsive image">
```

#### Image shapes

Add classes to an <img> element to easily style images in any project.

#### **Cross-browser compatibility**

Keep in mind that Internet Explorer 8 lacks support for rounded corners.



# Copy

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**Responsive images** Image shapes

Helper classes

**Responsive utilities** 

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Using Sass

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# I decide to add rounded corners to an image, so I check out what class to use at getbootstrap.com



-	•	O Image: A image:
	bc	otstrap-example-2015-04-30 🔻
	D	config.codekit
	►	CSS
	۲	fonts
	<>	index.html
	►	is

 $\Rightarrow$ 



Line 39, Column 1 – Selected 1 line – 87 Lines

Vivamus fermentum semper porta. Nunc diam velit, adipiscing ut tristique vitae, sagittis vel odio. Maecenas convallis ullamcorper ultricies. Curabitur ornare, ligula semper consectetur sagittis, nisi diam iaculis velit, id fringilla sem nunc vel mi. Nam dictum, odio nec pretium volutpat, arcu ante placerat erat, non tristique elit urna et turpis. Quisque mi metus, ornare sit amet fermentum et, tincidunt et orci. Fusce eget orci a orci congue vestibulum.

<img src="http://placehold.it/900x150"</pre> class="img-responsive img-rounded" alt="Placeholder">

# 

Movie Genre Hero Year Star Director

 $\bigcirc$ 





#### Ut turpis felis, pulvinar a semper sed, adipiscing id dolor.

Pellentesque auctor nisi id magna consequat sagittis. Curabitur dapibus enim sit amet elit pharetra tincidunt feugiat nisl imperdiet. Ut convallis libero in urna ultrices accumsan. Donec sed odio eros. Donec viverra mi quis quam pulvinar at malesuada arcu rhoncus. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. In rutrum accumsan ultricies. Mauris vitae nisi at sem facilisis semper ac in est.

Vivamus fermentum semper porta. Nunc diam velit, adipiscing ut tristique vitae, sagittis vel odio. Maecenas convallis ullamcorper ultricies. Curabitur ornare, ligula semper consectetur sagittis, nisi diam iaculis velit, id fringilla sem nunc vel mi. Nam dictum, odio nec pretium volutpat, arcu ante placerat erat, non tristique elit urna et turpis. Quisque mi metus, ornare sit amet fermentum et, tincidunt et orci. Fusce eget orci a orci congue vestibulum.

#### 900 x 150

Movie	Genre	Hero	Year	Star
Die Hard	Action	John McClane	1988	Bruce Willis
Star Wars	Sci-Fi	Luke Skywalker	1977	Mark Hamill
John Wick	Action	John Wick	2014	Keanu Reeve



Director

John McTiernan

George Lucas

**Chad Stahelski** es

# It looks OK, but I'd like the corners to be more rounded than Bootstrap's default



tincidunt feugiat nisl imperdiet. Ut convallis libero in urna ultrices accumsan. Donec sed odio eros. Donec viverra mi quis quam pulvinar at malesuada arcu rhoncus. Cum sociis natoque penatibus et



```
v <article data-brackets-id="21" class="col-sm-8">
 <h2 data-brackets-id="22">Article Title</h2>
 > ...
 > ...
 > ...
 v 
 </article>
```

×С

Working Files
• # scott.css
bootstrap-example-2015-04-30 🔻
🗋 config.codekit
▼ CSS
bootstrap.css
# scott.css
▶ fonts
<> index.html

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7 🔻

• css/scott.css (bootstrap-example-2015-04-30) — Brackets /\* Bootstrap overrides \*/ .img-rounded { border-radius: 20px; .table-hover > tbody > tr:hover { background-color: cornsilk; .breadcrumb > li + li:before { content: ">\00a0";

14 .breadcrumb > .active 15 **V** color: darkslategray 16 font-weight: 700; 17 18

/\* End Bootstrap overr

21

/\* Original Styles \*/ 22 23

I edit my code, using the same class name as Bootstrap does, & change the value of the borderradius property





tincidunt feugiat nisl imperdiet. Ut convallis libero in urna ultrices accumsan. Donec sed odio eros. Donec viverra mi quis quam pulvinar at malesuada arcu rhoncus. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. In rutrum accumsan ultricies. Mauris vitae nisi at sem facilisis semper ac in est.

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John Wick	Action	John Wick	2014	Keanu Reeve



#### Director

John McTiernan

George Lucas

es Chad Stahelski

# Now the corners are more rounded than Bootstrap's default!



# A more complex example

# Hello, world! My first Bootstrap page

# **Article Title**

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec a diam lectus. Sed sit amet ipsum mauris. Maecenas congue ligula ac quam viverra nec consectetur ante hendrerit. Donec et mollis dolor. Praesent et diam eget libero egestas mattis sit amet vitae augue. Nam tincidunt congue enim, ut porta lorem lacinia consectetur. Donec ut libero sed arcu vehicula ultricies a non tortor. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean ut gravida lorem. Ut turpis felis, pulvinar a semper sed, adinicaina id dalar



# This page needs a breadcrumb trail to indicate hierarchy & wayfinding

Vivamus fermentum semper porta. Nunc diam velit, adipiscing ut tristique vitae, sagittis vel odio. Maecenas convallis ullamcorper ultricies. Curabitur ornare, ligula semper consectetur sagittis, nisi diam iaculis velit, id fringilla sem nunc vel mi. Nam dictum, odio nec pretium volutpat, arcu ante placerat erat, non tristique elit urna et turpis. Quisque mi metus, ornare sit amet fermentum et, tincidunt et orci. Fusce eget orci a orci congue vestibulum.



## **Breadcrumbs**

Indicate the current page's location within a navigational hierarchy.

Separators are automatically added in CSS through :before and content.

EXAMPLE	
Home	
Home / Library	
Home / Library / Data	Bootst
<pre><ol class="breadcrumb">   <li><a href="#">Home</a></li>   <li><a href="#">Library</a></li> </ol></pre>	HTML
<pre><li><li><li>class="active"&gt;Data</li> </li></li></pre>	classes
	hnoodo

## Pagination

Provide pagination links for your site or app with the multi-page pagination the set the second set of second set in the second set in the second s



Glyphicons

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index.html # scott.css

bootstrap-example-2015-04-30 v

🗋 config.codekit

▼ CSS

bootstrap.css

- # scott.css
- ▶ fonts

<>> index.html

▶ js



```
src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.2/jqu
```

```
<script src="js/bootstrap.js"></script>
```

```
class="active">Widget 1000
```

```
I add it to my code
       <article class="col-sm-8">
         <h2>Article Title</h2>
         Lorem ipsum dolor sit amet, consectetur
adipiscing elit. Donec a diam lectus. Sed sit amet ipsum
```



Products Widgets **Widget 1000** Home

# Hello, world! My first Bootstrap page

# **Article Title**

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec a diam lectus. Sed sit amet ipsum mauris. Maecenas congue ligula ac quam viverra nec consectetur ante hendrerit. Donec et mollis dolor. Praesent et diam eget libero egestas mattis sit amet vitae augue. Nam tincidunt congue enim, ut porta lorem lacinia consectetur. Donec ut libero sed arcu vehicula ultricies a non tortor. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean ut

# I really don't like the / that Bootstrap uses as a default separator, since it's confusing & ugly

Vivamus fermentum semper porta. Nunc diam velit, adipiscing ut tristique vitae, sagittis vel odio. Maecenas convallis ullamcorper ultricies. Curabitur ornare, ligula semper consectetur sagittis, nisi diam iaculis velit, id fringilla sem nunc vel mi. Nam dictum, odio nec pretium volutpat, arcu ante placerat erat, non tristique elit urna et turpis. Quisque mi metus, ornare sit amet fermentum et, tincidunt et orci. Fusce eget orci a orci congue vestibulum.



# Hello, world! My first Bootstrap page

# **Article Title**

Vivanus fermentum semper porta. Lorem ipsum dolor sit amet, consectetur adipiscing Nunc diam velit, adipiscing ut elit. Donec a diam lectus. Sed sit amet ipsum Fistique vitae, sagittis vel odio. Aaecenas convallis ullamcorper mauris. Maecenas congue ligula ac quam viverra utricies. Curabitur ornare, ligula E  $\odot$  $\odot$ **1** • 4 **A** 26 (1) -88  $\langle \rangle$ index.html > 🖬 DOM Tree 🗘 > 🖪 html > 🖪 body > 🖪 main.container > 🖪 ol.breadcrumb > 🖪 li.active Computed Rules .breadcrumb > li + li::before - bootstrap.css:4606 padding: 0 5px; color: #ccc; content: "/\00a0"; 1 ::before, ::after bootstrap.css:1077 -webkit-box-sizing: border-box; In the state of the ADI stress Has -moz-box-sizing: border-box; box-sizing: border-box; Main Frame 🗘



# I open the browser's Inspector, select the breadcrumb, & see the rule that Bootstrap uses







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W	/orki	ng	Files

bootstrap-example-2015-04-30 v

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**config**.codekit

CSS

bootstrap.css

- # scott.css
- ▶ fonts

<>> index.html

▶ js



Line 11, Column 1 — Selected 2 lines — 89 Lines



Working Files
# scott.css

✿ 🕀

- 🗋 config.codekit
- CSS
  - # bootstrap.css
  - # scott.css
- ▶ fonts
- <>> index.html
- ▶ js

/\* Bootstrap overrides \*/ 3 🔻 .img-rounded { border-radius: 20px; 4 5 6 background-color: cornsilk; 8 9 10 .breadcrumb > li + li::before { 12 content:  $" > \ 00a0";$ 13 14 15 🔻 16 17 18 19 20

23

```
.table-hover > tbody > tr:hover {
```

# .breadcrumb > .ad I edit my CSS, using the same color: darkslat selector Bootstrap does, & font-weight: 70 change only the value of the /\* End Bootstrap content property (the $\succ$ is a 22 /\* Original Style Unicode symbol)







use px or em or %

Instead, you use *columns* (that must add up to 12 in Bootstrap 3 & may or may not in Bootstrap 4)

# When you lay things out using Bootstrap, you do not

- atomini a series and teres and the second second and the 100% P and the second of the second o This is the second the second second second second a sin water and the second state the second second 25% 75%Contraction of the second s 100% 





# Bootstrap 3

Desktops	lg	≥1200 p
Tablets (landscape)	md	≥922 px
Tablets (portrait)	SM	≥768 px
Phones	XS	<768 px

### X

Bootstrap 3			Bootstrap 4		
Desktops	lg	≥1200 px	≥1200 px	xl	Large desktops
Tablets (landscape)	md	≥922 px	≥922 px	lg	Desktops
Tablets (portrait)	SM	≥768 px	≥768 px	md	Tablets
Phones	XS	<768 px	≥576 px	SM	Phones (landscape)
			<576 px	*	Phones (portrait)



Bootstrap 4			Bootstrap 5		
			≥1400px	xxl	Really large desktops
Large desktops	xl	≥1200px	≥1200px	xl	Large desktop
Desktops	lg	≥992px	≥992px	lg	Desktops
Tablets	md	≥768px	≥768px	md	Tablets
Phones (landscape)	SM	≥576px	≥576px	SM	Phones (landscape)
Phones (portrait)	*	<576px	<576px	*	Phones (portrait)



# Columns go inside rows, & rows go inside containers



# Column

Column

Row

## Container



Content (e.g., text & images) goes inside elements with CSS classes (e.g., col-md-8) that turn those elements into columns & define...

widths happen (e.g., -md) » how many column *widths* they span, between 1–12 (e.g., -8)

Columns go inside elements with a CSS class of row

Rows go inside elements with a CSS class of container

» the size of the *breakpoint* at which changes to column

<main class="container"> <div class="row"> <article class="col-sm-8">

> </article> <aside class="col-sm-4">

</aside> </div> </main>

 $\bullet \bullet \bullet$ 


#### <main class="container"> <div class="row">

#### </article>

<aside class="col-sm-4"></a>



</main>

</div>



## <article class="col-sm-8"> Column





#### <main class="container">

<div class="row">

</article>

<aside class="col-sm-4"></a>

</aside>

'div>

main>







## Column

## Column

Row

#### Container



<body> <main> <div> <article class="col-sm-8"> ... </article> <aside class="col-sm-4"> ... </aside> </div></main> </body>

#### This does *not* work—no container & no row

<body> <main class="container"> <div> <article class="col-sm-8"> ... </article> <aside class="col-sm-4"> ... </aside> </div></main> </body>

#### This does not work—no row

<body> <main> <div class="row"> <article class="col-sm-8"> ... </article> <aside class="col-sm-4"> ... </aside> </div></main> </body>

#### This does not work—no container

<body> <main class="container"> <div class="row"> <article> ... </article> <aside> ... </aside> </div> </main> </body>

#### This does *not* work—no columns



<body> <main class="container"> <div class="row"> <article class="col-sm-8"> ... </article> <aside> ... </aside> </div></main> </body>

#### This does not work—columns don't add up to 12

<body> <main class="container"> <div class="row"> <article class="col-sm-8"> ... </article> <aside class="col-sm-4"> ... </aside> </div></main> </body>

#### This works!



Containers

The grid system requires an element with a class of container on it to create a responsive container for rows

<div class="container"> • • • </div>

Containers are *not* nestable





HTML	Tidy
1- <main></main>	
2 <b>▼<!--</b--> <main< th=""><th></th></main<></b>	
class="container">>	
<pre>3 - <h1>Hello, world!</h1></pre>	
4- <article></article>	
5- <h2>Article Title<th>2&gt;</th></h2>	2>
6 ► ↔	
11 ▶ <->	
15 ▶ <->	
19	
20 - <aside></aside>	
<pre>21 - <h2>Aside Title</h2></pre>	
22	
26	
27	

# Hello, world! Article Title

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*	HTML
1-	<main >
2 -	<main class="container"></main>
3 -	<h1>Hello, world!</h1>
4 -	<article></article>
5 -	<h2>Article Title</h2>
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20 -	<aside></aside>
21 -	<h2>Aside Title</h2>
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#### Hello, world!

#### Article Title

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Size	Devices
xl	Large desktops
lg	Desktops
md	Tablets
SM	Landscape phones
*	Portrait phones

Bootstrap 4 breakpoints & container widths

## 540px 100%

## 720px

## 960px

#### 1140px

## Container Widths



Any element that is going to have horizontal groups of columns in it must...

» be a child of the container element » have a class of row on it <div class="container"> <div class="row"> <article>

</article><aside>

</div>

\$	HTML
1	<main class="container"></main>
2.	<pre>- <h1>Hello, world!</h1></pre>
	<pre>- <div class="row"></div></pre>
4	<pre><article></article></pre>
5	<h2>Article Title</h2>
6	► <->
11	► <->
15	► <-/p>
19	
20 .	<pre><aside></aside></pre>
21.	<h2>Aside Title</h2>
22	
26	
27	
20	(main)

# Hello, world! Article Title

Tidy

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The container element can have other children besides row elements

Anything that you always want to span the full width of the container element does not need to be inside the row element(s)

- » Headings (e.g., <h1>)
- <header>  $\rightarrow$
- » <footer>
- » Horizontal navigation bar

\$	HTML	Tidy
1-	<main class="container"></main>	
2-	<h1>Hello, world!</h1>	
3 🗸	<pre><div class="row"></div></pre>	
4 -	<pre><article></article></pre>	
5 🗕	<h2>Article Title</h2>	
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19		
20 -	<pre><aside></aside></pre>	
21-	<h2>Aside Title</h2>	
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#### Hello, world!

Article Title

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## The only immediate children allowed inside rows? Columns

Columns

	<b>Extra small</b> <576px	<b>Small</b> ≥576px	<b>Medium</b> ≥768px	<b>Large</b> ≥992px	<b>Extra large</b> ≥1200px
Max container width	None (auto)	540px	720px	960px	1140px
Class prefix	.col-	.col-sm-	.col-md-	.col-lg-	.col-xl-
# of columns	12				
Gutter width	30px (15px on each side of a column)				
Nestable	Yes				
Column ordering	Yes				

#### Remember those 12 columns that Bootstrap uses?

turn those elements into columns & define...

widths happen (e.g., -md) (e.g., -8)

Content that is responsive (e.g., text & images) goes inside elements with CSS classes (e.g., col-md-8) that

» the size of the breakpoint at which changes to column » how many column widths they span, between 1–12

If all the columns will be same width with every viewport, you can just use col

<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>

If one column has a set width & the others can automatically resize, you can easily accommodate that

<div class="row"> <div class="col"> 1 of 3 </div><div class="col-5"> 2 of 3 </div> <div class="col"> 3 of 3 </div> </div>

#### HTML

### Written by you

class="col-lg-6"

class="col-md-6"

class="col-sm-6"

class="col-xs-6"



## CSS

In bootstrap.css

CO	L — ]	Lq-	-6	{ }

.col-md-6 {}

.col-sm-6 {}

.col-xs-6 {}

## Bootstrap is mobile-first

### Therefore, the default width is always...

» 12 columns which is the same as...
» 100% width which is the same as...
» full width

## lg The lg column inherits the size of the md column

#### Bootstrap is mobile-first

md The md column inherits the size of the sm column

sm The sm column inherits the size of the xs column

xs A size is set for an xs column (e.g., col-xs-6)

Because the default width of a column is 12 (unless overridden) & because column sizes are inherited from xs up to lg, this would be unnecessary:

<div class="col-xs-12 col-sm-12 col-md-8</pre> col-lg-8">

What should it be?

Because the default width of a column is 12 (unless overridden) & because column sizes are inherited from xs up to lg, this would be unnecessary:

<div class="col-xs-12 col-sm-12 col-md-8</pre> col-lg-8">

What should it be?

<div class="col-md-8">



## If you want an element to be 12 columns, you *cannot* do this:

<div>

## Bootstrap's CSS isn't invoked, so there are *not* any columns

You must instead do this:

<div class="col-xs-12">

#### PRO TIP-



Size Name	Device	Column Width
Extra Small (xs)	Phones	Fluid
Small (sm)	Tablets	60px
Medium (md)	Tablets in portrait & desktops	78px
Large (lg)	Desktops	95px

## 15px gutter around each column

1-	<main class="container"></main>
2 -	<h1>Hello, world!</h1>
3 -	<pre><div class="row"></div></pre>
4-	<pre><article <="" class="col-sm-8" pre=""></article></pre>
5 -	<h2>Article Title</h2>
6 ▶	
L1 🕨	
L5 ▶	
L <b>9</b>	
20 -	<pre><aside class="col-sm-4"></aside></pre>
21 -	<h2>Aside Title</h2>
22 🕨	
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#### Hello, world!

Tidy

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#### Aside Title

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\$	HTML
1	<main class="container"></main>
2	<pre>- <h1>Hello, world!</h1></pre>
	<pre>- <div class="row"></div></pre>
4	<pre><article class="col-sm-8"></article></pre>
5	<h2>Article Title</h2>
6	► <->
11	► <->
15	► <->
19	
20	<pre><aside class="col-sm-4"></aside></pre>
21	<h2>Aside Title</h2>
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Hello, world! Article Title Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec a diam lectus. Sed sit amet ipsum mauris. Maecenas congue ligula ac quam viverra nec consectetur ante hendrerit. Donec et mollis dolor. Praesent et diam eget libero egestas mattis sit amet vitae augue. Nam tincidunt congue enim, ut porta lorem lacinia consectetur. Donec ut libero sed arcu vehicula ultricies a non tortor. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean ut gravida lorem. Ut turpis felis, pulvinar a semper sed, adipiscing id dolor. Pellentesque auctor nisi id magna consequat sagittis. Curabitur dapibus enim sit amet elit pharetra tincidunt feugiat nisl imperdiet. Ut convallis libero in urna ultrices accumsan. Donec sed odio eros. Donec viverra mi quis quam pulvinar at malesuada arcu rhoncus. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. In rutrum accumsan ultricies. Mauris vitae nisi at sem facilisis semper ac in est.

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1-	<main class="container"></main>				
2-	<h1>Hello, world!</h1>				
3 🗸	<div class="row"></div>				
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21 -	<h2>Aside Title</h2>				
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Aside Title

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*	HTML
	<main class="container"></main>
	<footer class="row"></footer>
	<section class="col-sm-4"></section>
4 🕶	<h2>Section 1</h2>
	<→
8	
	<section class="col-sm-4"></section>
10 -	<h2>Section 2</h2>
14	
	<section class="col-sm-4"></section>
	<h2>Section 3</h2>
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	<main class="container"></main>
	<footer class="row"></footer>
	<section class="col-sm-4"></section>
4 🕶	<h2>Section 1</h2>
	<>/p>
8	
	<section class="col-sm-4"></section>
10 -	<h2>Section 2</h2>
	<>/p>
14	
	<section class="col-sm-4"></section>
	<h2>Section 3</h2>
	<⇒
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\$ CSS			
\$ JS			

# Section 1

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# Section 2

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## Section 3

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allowed children of rows

Rows go inside containers, but other children are allowed inside containers

# Columns *must* go inside rows, & columns are the *only*

# Containers cannot go anywhere inside other containers



Themes





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# Start Bootstrap

# Free Bootstrap Themes & Templates

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Created and Maintained by David Miller at Blackrock Digital

Contact

# {wrap}bootstrap









## New Age

An app landing page theme.

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START BOOTSTRAP

A one page creative theme.



SERVICES



--\*---

## Creative

**PREVIEW & DOWNLOAD** 

## Man must explore, and this is exploration at its greatest

Problems look mighty small from 150 miles up Posted by Start Bootstrap of

Never in all their history have men been able truly to conceive of the world as one: a single sphere, a globe, having the qualities of a globe, a round earth in which all the directions eventually meet, in which there is no center because every point, or none, is center - an equal earth which all men occupy as equals. The airman's earth, if free men make it, will be truly round: a globe in practice, not in theory.

Science cuts two ways, of course; its products can be used for both good and evil. But there's no turning back from science. The early warnings about technological dangers also come from science.

## **Clean Blog**

### A clean blog theme.

**PREVIEW & DOWNLOAD** 



O START BOOTSTRAP

A free, responsive, one page Bootstrap theme. Created by Start Bootstrap.

(>)









Start Bootstrap / Templates / Agency





### **Need a Custom Build?**

If you like this theme, but need something a bit more custom, you can hire the Start Bootstrap design team to create a custom version of this template! Email us at feedback@startbootstrap.com for more information!

## Description:

Agency is a stylish, one page Bootstrap theme for agencies and small businesses. The design of Agency is based off of the Golden PSD Theme by Mathavan Jaya. You can download the PSD verison of this theme at FreebiesXpress.com.











Commercial

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Official

# Bootstrap

В

Build responsive, mobile-first projects on the web with the world's most popular front-end component library.

Bootstrap is an open source toolkit for developing with HTML, CSS, and JS. Quickly prototype your ideas or build your entire app with our Sass variables and mixins, responsive grid system, extensive prebuilt components, and powerful plugins built on jQuery.

Get started

Download

Currently v4.0.0-beta.2

All the tools your team







# Official Themes from Bootstrap's creators



Customize and extend the world's most popular front-end framework.

**Explore themes** 



#### 0000

Home Profile Messages Docs



#### **Dave Gamache**

I wish i was a little bit taller, wish i was a baller, wish i had a girl... also.

> Friends Enemies 12M

1

#### About · Edit

- 🛗 Went to Oh, Canada
- Became friends with Obama 23
- Worked at Github 65
- Lives in San Francisco, CA **n**
- 9 From Seattle, WA

#### Photos - Edit









#### Dave Gamache

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# Application

Building robust web apps is simple with timelines, profiles, notifications, messages, activity, and new utility classes.



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Overview				
Order history				
Fluid layout				
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MORE				
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Bootstrap docs	New vs Returning	New vs Re	curring	Direct vs
Light UI				
Example modal		QUICK ST/	NTS	
	PAGE VIEWS	OWNLOADS	SIGN-UPS	pow
	12,938 🎭	758 1.3%-	1,293 6.75%-	75
	$\sim \wedge$	$\sim$	$\sim$	
	Countries		Most visited pages	
	United States	62.4%	/ (Logged out)	



# Dashboard

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# 31 Monthly **JANUARY 2015** 37 12 54 Completed Snoozed Overdue . • .

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Rather than force everyone at your company to learn incredibly difficult terminal commands, we allow anyone to query the data with natural language to return data.

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```
1 goAnalytics "who are the latest 3 users?"
2
3
  {
    "Dave": {
4
      "fullName": "Dave Gamache",
5
      "twitterHandle": "@dhg",
6
7
    "Mark": {
8
       "fullName": "Mark Otto",
9
10
        "twitterHandle": "@mdo",
11
      "Jacob": {
12
13
        "fullName": "Jacob Thornton",
14
        "twitterHandle": "@fat",
15
16 }
```



#### HIGH PRAISE

# "Go Analytics is amazing. Decisions that used to take weeks, now only takes minutes and is available to everyone on my team."

Cindy Smith, founder of Cool Startup



HIGH PRAISE

"Go Analytics is amazing. Decisions that used to take weeks, now only takes minutes and is available to everyone on my team."

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#### ABOUT

We've been working on Go Analytics for the better part of a decade and are super proud of what we've created. If you'd like to learn more, or are interested in a job, contact us anytime at themes@getbootstrap.com.

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#### PRODUCT

Features Examples Tour

### Gallery

#### APIS

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Up to 2 users	Up to 6 users	Up to 12 users	Up to 25 users	25+ users



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Enable Local Testing -

iPhone	5S Viewpo	ort: 320x5	68	
320x568	360x640	360x640	360x640	375x66
iPhone 5S	Galaxy S5 Mini	Galaxy S5	Galaxy Note 3	iPhone

← Previous Next →









Note: Set your monitor size in the 'Monitor Size' settings (top right corner of the screen), to view devices at their actual size.

# **Responsive Design Testing across Devices** Generate screenshots at actual device sizes on iOS, Android, OS X & Windows

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Enable Local Testing -

Æ	Calaxy 1ab 4 EEEE 800x1280 @ 4.4	1280x1024	IMAC OSX Image: Second State Interview of the second state of the	
	iPhone	5S Viewp	ort: <b>320x568</b>	

Screen size: 4"

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iOS	v8.3 iPad Mini 2 iPhone 6 iPad Air iPhone 6 Plus	v7 iPhone 5S iPad Min iPad 4th	v6 iPhone 4S iPhone 5	iPad 3	<b>v5.1</b> iPhone 4S iPad 3	v5 iPad 2
Android	SamsungGalaxy S5Galaxy Tab 4Galaxy S4Galaxy Note 3Galaxy S3Galaxy Note 2Galaxy S2Galaxy Note 10.Galaxy Tab 2Galaxy Note 10.Galaxy S5 MiniGalaxy S5 Mini	<b>Amazon</b> Kindle Fire 2 Kindle Fire HD 8.9 Kindle Fire HDX	<b>Motorola</b> Razr Droid Razr Razr Maxx HD	Google Nexus 9 Nexus 7 Nexus 6 Nexus 5 Nexus 4 Nexus	HTC One M8 One X Wildfire	<b>Sony</b> Xperia Tipo
Windows 8.1	<ul> <li>11</li> <li>29</li> <li>22</li> </ul>	36 35 34 33 32 31 <mark>30</mark> 28 27 26 25 24 23 21 20 19 18 17 16	<ul> <li>42 41 40 39</li> <li>35 34 33 3</li> <li>28 27 26 2</li> <li>22</li> </ul>	9 38 37 36 2 31 30 29 25 24 23	<b>0</b> * 12.16 12.15 12 12.10 12	2.14 💋 5.1*
Windows 8	<ul> <li>10</li> <li>37</li> <li>29</li> <li>22</li> </ul>	36 35 34 33 32 31 30 28 27 26 25 24 23 21 20 19 18 17 16	<ul> <li>42 41 40 39</li> <li>35 34 33 3</li> <li>28 27 26 2</li> <li>22</li> </ul>	9 38 37 36 2 31 30 29 25 24 23	<b>0</b> * 12.16 12.15 12 12.10 12	2.14 💋 5.1*
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History 👻

Learn more about local testing



٠	Android			🛄 Tab	let		
	Windows Phone	Samsung		Google		Amazon	
Ś	iOS	Galaxy S5 Latest	1080x1920 <b>4.4</b>	Nexus 6 * Latest	1440x2560 <b>5</b>	Kindle Fire HDX 7 *	1200x1920 <b>4.3</b>
	M/inclosure 40	Galaxy S4	1080x1920 <b>4.3</b>	Nexus 5 *	1080x1920 5	Kindle Fire HD 8.9 *	1200x1920 <b>4</b>
	Windows 10	Galaxy S3	720x1280 <b>4.1</b>	Nexus 4	768x1280 4.2	Kindle Fire 2 *	600x1024 <b>4</b>
	Windows 8.1	Galaxy S2	480x800 2.3	Nexus	720x1280 <b>4</b>		
_		Galaxy S	480x800 <b>2.2</b>			Google	
	Windows 8	Galaxy Note 3 Latest	1080x1920 <b>4.3</b>	HTC		Nexus 9 *	1536x2048 5
0	Windows 7	Galaxy Note 2	720x1280 <b>4.1</b>	One M8	1080x1920 <b>4.4</b>	Nexus 7	1280x800 <b>4.1</b>
		Galaxy Note	800x1280 <b>2.3</b>	One X	720x1280 <b>4</b>		
2	Windows XP	Galaxy S5 Mini	720x1280 <b>4.4</b>	Wildfire	240x320 <b>2.2</b>	Samsung	
É	OS X Yosemite			Hero	320x480 <b>1.5</b>	Galaxy Tab 4 101	1280x800 <b>44</b>
		Motorola				Galaxy Note 10.1	800x1280 <b>4</b>
Ű	OS X Mavericks	Droid Razr	540x960 2.3	Sonv		Galaxy Tab 2 10.1	1280x800 <b>4</b>
ń	OS X Mountain Lion	Razr	540x960 <b>4</b>	Xperia X10	480x854 <b>1.6</b>		1200/000
-		Razr Maxx HD	720x1280 <b>4.1</b>	Xperia Tipo	320x480 <b>4</b>		
Ś	OS X Lion				020/100		
Ś	OS X Snow Leopard						

\* Local testing not available

٠	Android	<b>Mobile</b>		Tablet	
	Windows Phone	Apple		Apple	
Ś	iOS	iPhone 6 Plus Latest	8.3	iPad Air Latest	8.3
	Windows 10	iPhone 6 Latest iPhone 5S	8.3 7	iPad Mini 2 Latest iPad 4th	8.3 7
	Windows 8.1	iPhone 5	6	iPad Mini	7
	Windows 8	iPhone 4S (6.0) iPhone 4S	6 5.1	iPad 3rd (6.0) iPad 3rd	6 5.1
0	Windows 7	iPhone 4	4	iPad 2 (5.0) iPad 2	5 422
2	Windows XP	IFIIONE 303	3	iPad 2	4.3.2 3.2
ú	OS X Yosemite				
×.	OS X Mavericks				
×.	OS X Mountain Lion				
ú	OS X Lion				
×.	OS X Snow Leopard				

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٠	Android	🧭 Safari	Firefox			Chrome		🚺 Opera		🌾 Yandex
	Windows Phone	8 Latest	40 Aurora	23	7	44 Dev	28	30 Dev	12.15	14.12 Latest
×.	iOS		38 Latest	22	6	43 Latest	27	29 Latest	12.14	
4	Windows 10		37	21	5	42	26	28	12.12	
			36	20	4	41	25	27		
	Windows 8.1		35	19	3.6	40	24	26		
4	Windows 8		34	18		39	23	25		
			33	17		38	22	24		
0	Windows 7		32	16		37	21	23		
2	Windows XP		31	15		36	20	22		
	OS X Yosemite		30	14		35	19	21		
			29	13		34	18	20		
	OS X Mavericks		28	12		33	17	19		
ń	OS X Mountain Lion		27	11		32	16	18		
			26	10		31	14	17		
Ű.	OS X Lion		25	9		30		16		
ú	OS X Snow Leopard		24	8		29		15		

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٠	Android	🥭 ie		Firefox		🧿 Chi	rome	0 0	pera	🌾 Yandex	🧭 Safari
	Windows Phone	11 Latest	40 Aurora	23	7	44 Dev	28	30 Dev	12.16	14.12 Latest	5.1 Latest
Ś	iOS	10	38 Latest	22	6	43 Latest	27	29 Latest	12.15		5
		9	37	21	5	42	26	28	12.14		4
	Windows 10	8	36	20	4	41	25	27	12.10		
	Windows 8.1		35	19	3.6	40	24	26	11.6		
4	Windows 8		34	18	3	39	23	25	11.5		
			33	17		38	22	24	11.1		
0	Windows 7		32	16		37	21	23	10.6		
<b>R</b>	Windows XP		31	15		36	20	22			
-			30	14		35	19	21			
<b>K</b>	OS X Yosemite		29	13		34	18	20			
Ś	OS X Mavericks		28	12		33	17	19			
é	OS X Mountain Lion		27	11		32	16	18			
			26	10		31	15	17			
Ű.	OS X Lion		25	9		30	14	16			
Ś	OS X Snow Leopard		24	8		29		15			

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CS X Mountain Lion		
S X Lion		
OS X Snow Leopard		



Chrome	🚺 Opera	🌾 Yandex	🧭 Safari
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42	29 Latest		
41	28		
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39	26		
38	25		
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#### Thank you!

scott@granneman.com www.granneman.com ChainsawOnATireSwing.com @scottgranneman

jans@websanity.com websanity.com

## Bootstrap A Quick Introduction

#### R. Scott Granneman & Jans Carton

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2.8

2020-07-16 2.8: Defined jQuery; small fixes; another way to install is via npm; added details about Bootstrap 4 & 5's breakpoints; integrated Bootstrap 4 better in places;

2018-10-29 2.7: VSCode screenshots of Bootstrap 4 CDN; better explanation of adding your CSS after Bootstrap's; screenshots of Bootstrap 4 website & examples; replaced 3 section screenshots in *Columns*; re-ordered tables so largest is on top

2018-05-05 2.6: Added slide re: necessity for <div class="col-xs-12">; added slide contrasting breakpoints for 3 & 4

2017-12-19 2.5: Updated theme; fixed formatting errors; made Template section clearer; made Installation section clearer; made Minification into a Side Note; updated *Installation* screenshots; made Using section clearer & moved it after Template; made Grid System clearer, with more examples; better screenshots of free themes; added WrapBootstrap to themes; added slides showing new home page & dropdown for versions 2, 3, & 4; Installation now covers manual install vs CDN

2016-04-27 2.4: Changed instructions to move <script> to <head>; added minification explanation; Bootstrap-specific bookmarklet; more info re: Bootstrap themes; cleaned up small errors

2016-02-16 2.3: Added Bootstrap 4 section

# 2015-06-11 2.2: Fixed a bunch of errors in layout in *Grid System*; small fixes

2015-05-24 2.1: Completely re-ordered *Grid System* & added lots more detail, examples, & clarification; added *Tools* section with Viewport Resizer & BrowserStack

2015-05-20 2.0: Updated image showing Bootstrap contents; showed contents after culling; added examples of Bootstrap documentation for classes; added recommendation to use browser Inspector; simplified explanation of <meta> for disabling zooming; explained why you should move JS into <head>; added better clarification of Grid System; showed how to override Bootstrap's CSS with your own; added more about <head>

2015-01-14 1.1: Removed "inherit" & clarified relationship between Bootstrap's CSS & yours

2014-05-18 1.0.1: Replaced image showing default Bootstrap files

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