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**Bootstrap**

**Submitted By:**

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# What is Bootstrap?

* Bootstrap is the most popular framework for quickly styling your website.
* Bootstrap lets us skip writing CSS and focus instead on HTML.

# What is Bootstrap?

**CSS**

* Grid system
* Typograph
* Forms
* Buttons
* Responsive utilities

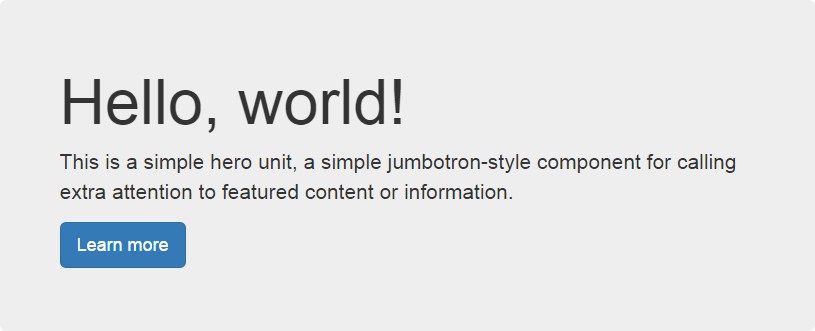
**Components**

* Glyphicons
* Navbar
* Pagination
* Thumbnails

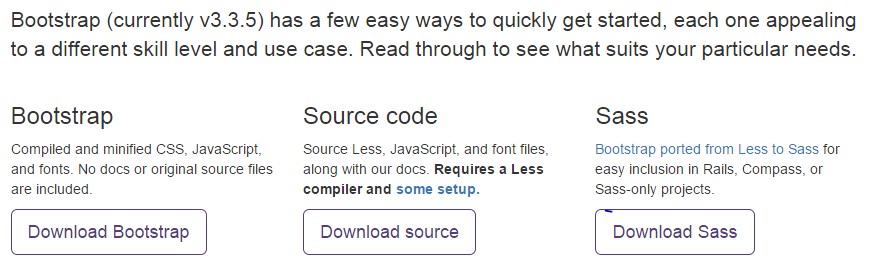
# What is Bootstrap?







Using Bootstrap



Using Bootstrap



Mobile Friendly

Bootstrap 3 is mobile friendly by default. Responsive to screen size (assignment 1) Touch screen zooming

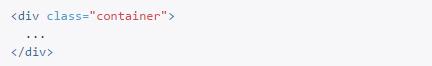
Add following to your <head> to enable touch zooming.



width=device-width: sets width of page to screen width of the device

initial-scale=1: sets initial zoom level when the page is first loaded

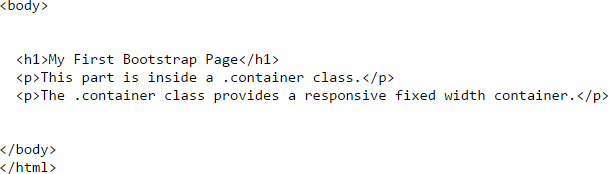
# .Container

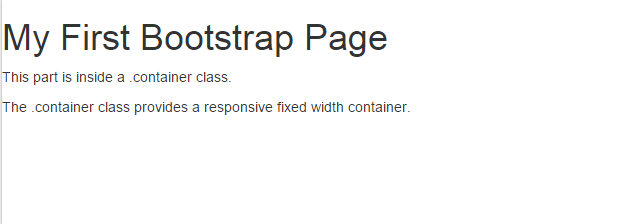


Responsively add margins, center, and wrap your content.

# .Container

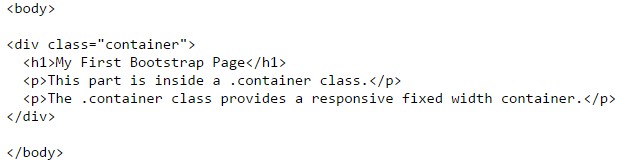
Example

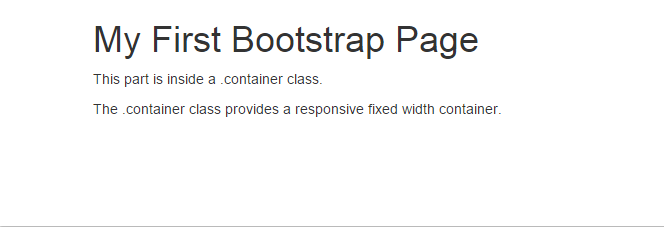




# .Container

Example





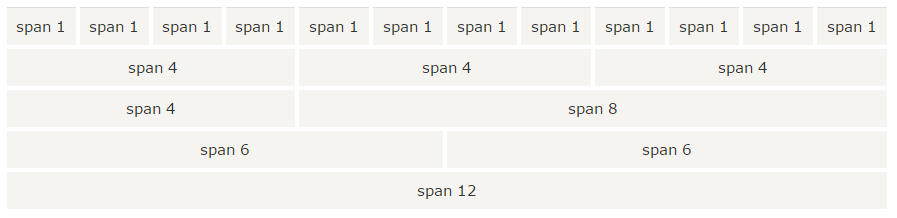
margin

margin

# Grid System

Bootstrap divides a page into a grid of 12 columns and multiple rows for easier positioning of elements.

Grid system is responsive and columns will rearrange automatically depending on the screen size.



# Grid System

Grid System - Basics

Place columns inside

<div class="row"></div>

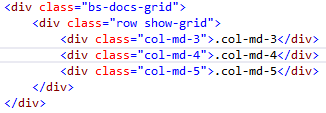
for each row.

Set each column width using class prefixes:

.col-xs-\*, .col-sm-\*, .col-md-\*, .col-lg-\*

# Example

**Create a row of columns of width 3, 4, and 5.**

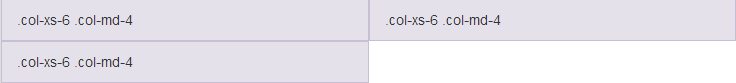




Grid System - Multiple Devices

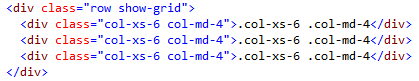
Sometimes columns are stacked vertically on smaller screens

Use col-xs-\*, col-sm-\*, col-md-\* together to set different column widths for different screen sizes



# Example

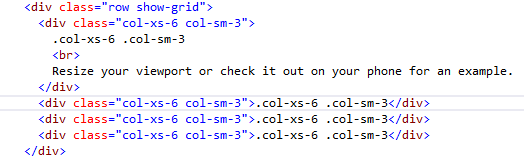
**Allow 2 columns in a row for mobile, 3 for desktop**



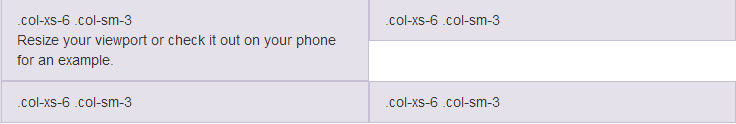
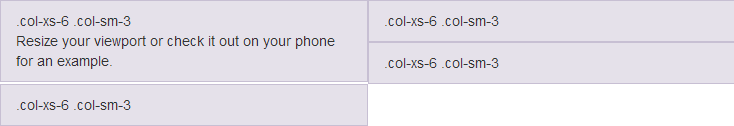
On Desktop: On Mobile:

Grid System – Column Resets

**Sometimes at breakpoints, columns may be aligned in wrong places.**



Problem: Correct Output:



Grid System – Column Resets

**Fix**



.clearfix clears float CSS attribute

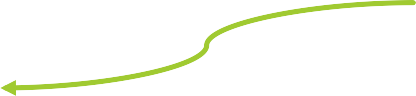
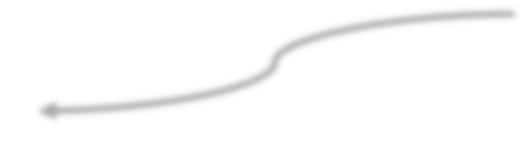
visible-xs is one of many responsive utilities

clearfix is applied to only mobile devices (visible-xs)

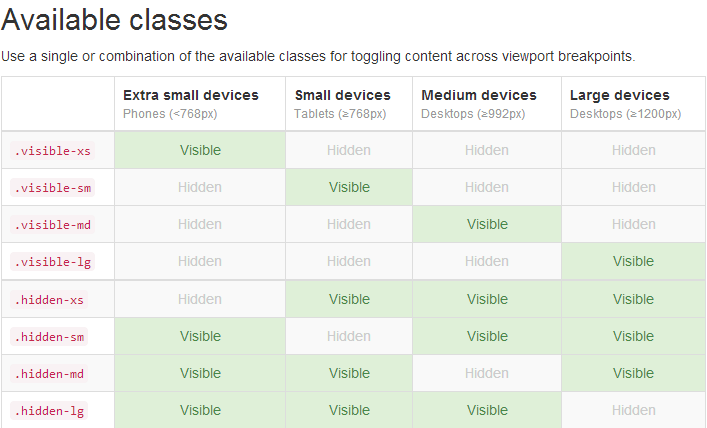
# Grid System – Column Resets

**Fix**

**Go to next line**



# Responsive utilities



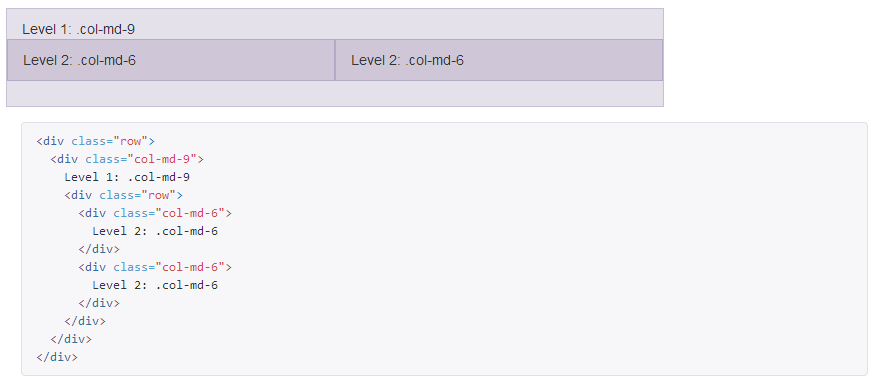
Grid System - Offsetting

col-xs-offset-\* col-sm-offset-\* col-md-offset-\* col-lg-offset-\*

# Example



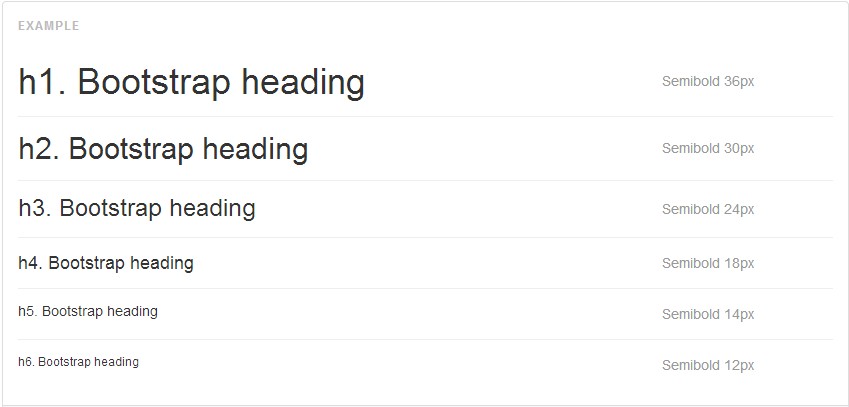


Grid System – Nested columns

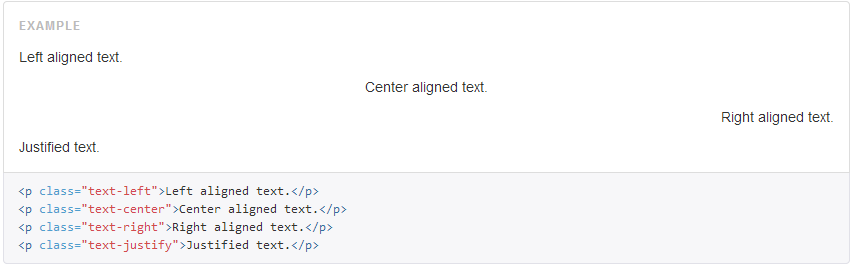
**Nested columns add up to its parent or less**

Typography - Headings

Supports <h1> to <h6>, same as HTML



# Typography - Alignment

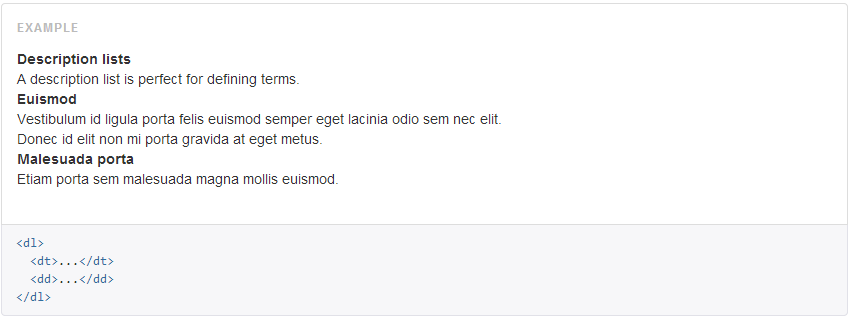


Typography – Addresses



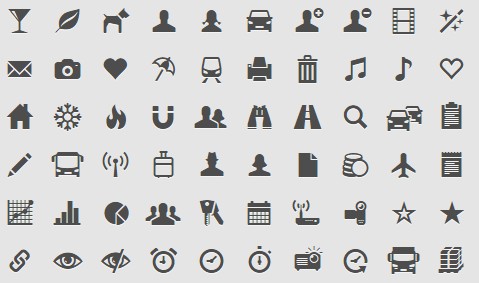
**append <br> to preserve formatting**

Typography - Description



Glyphicons

Bootstrap comes with 200 icons to use, named “glyphicons”



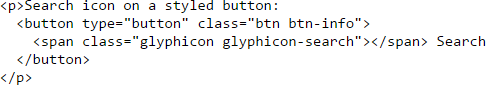
# Glyphicon Syntax

Syntax



Examples



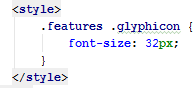


# Resizing Glyphicons

Glyphicons are text!!!

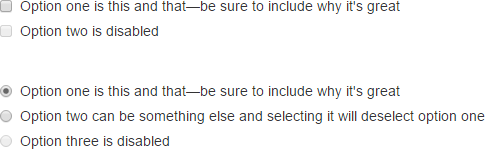
To resize glyphicons, simply increase its font size in CSS!

 Example



Output





# Forms

Automatically applies some global styling with Bootstrap.

Examples



# Forms

Layouts supported by Bootstrap

Vertical Form

Horizontal Form

Inline Form

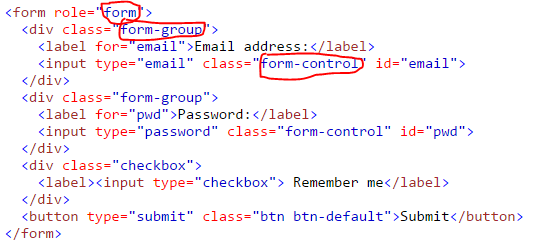
Tips on using forms with Bootstrap

<form role=“form”> *Improves accessibility*

<div class=“form-group”> *Improves spacing of form elements*

.form-control *Give width of 100% to text form elements*

# Forms – Vertical Layout

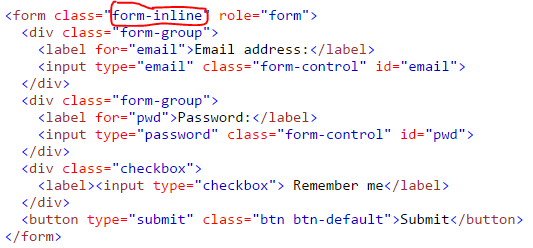


Forms – Horizontal Layout



Forms – Inline Layout





Forms - Controls

Supports HTML form elements

<input>

<textarea>

<input type=“checkbox”>

<input type=“radio”>

<select>

…

# Forms – Validation states

Bootstrap allows you to give validation status to your form elements.

 Bootstrap supports

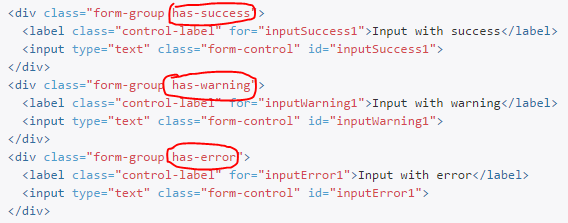
.has-warning

.has-error

.has-success

Example

# Validation States - Input



Forms – Validation states with icons

To add feedback icons

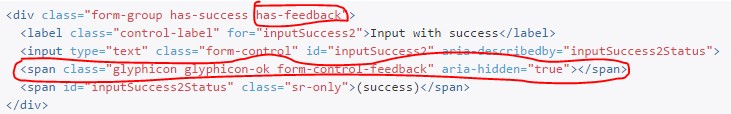
1. add has-feedback class to parent
2. insert <span> specifying glyphicon for the control’s feedback

## <span class="glyphicon glyphicon-ok form-control-feedback"></span>



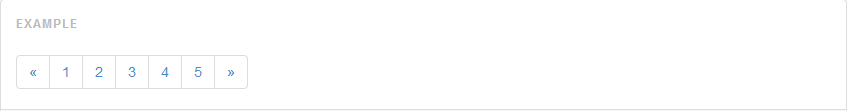
Validation states with Icons





Pagination

You can use Bootstrap to divide your website into pages.



Simply add pagination class to ul element. Each page is a list of href element.

## <ul class="pagination">

e.g. <li><a href="#">1</a></li>

Use pagination-lg or pagination-sm to size page button sizes

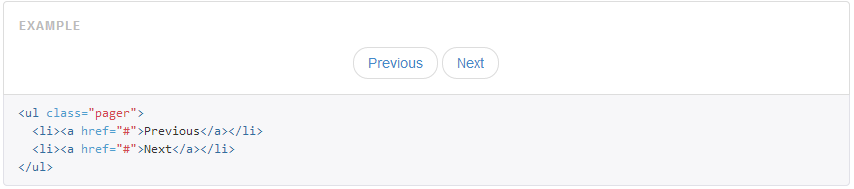
# Example - Pagination



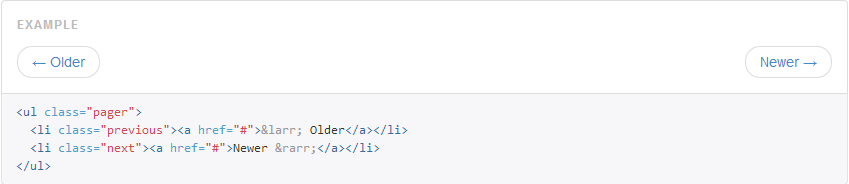


Pager

Simpler version with **“Previous”** or “**Next”** buttons



You can also align buttons using .previous and .next



# Navigation & Navigation Bars

Navigation (nav)



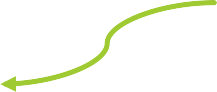
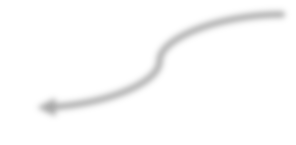
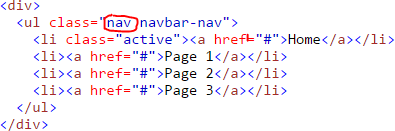
Navigation Bar (navbar)



# Navigation (nav)

Use unordered list and give .nav class attribute.

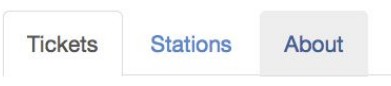
Example





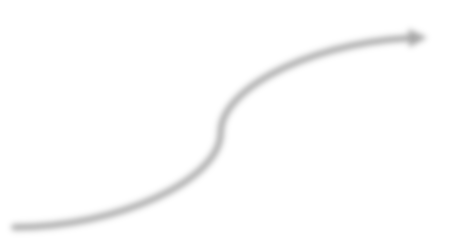
Makes navigation inline

# .nav Modifiers





Right aligned



# Navigation Bar (.navbar)

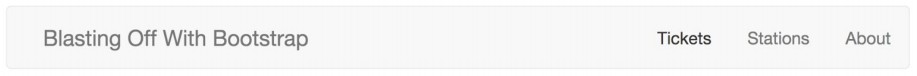
Creates a visible bar with navigation elements.

Example





# .navbar Modifiers





**and others …**

References

* <https://www.youtube.com/watch?v=-UEMWJjBXww>
* <https://www.youtube.com/watch?v=frRyAlz82Ok>
* <https://getbootstrap.com/docs>