Bootstrap

**Grid**

* **Visual Breakpoints:**  **< 768px** (xs), **>=** 768px (sm), >= 992px (md), >= 1200px (lg)
* **.contianer vs .container-fluid:** **fixed size width** vs 100% **full width**
* **sm+ Column Re-Ordering:**
  + For **mobile-first xs** device, ***‘Col Content’*** comes **1st**. For anything other than xs, ***‘Col Sidebar’*** should become **1st**.
  + <div class=”col-**sm-8** col-**sm-push-4**”> ***Col Content*** </div> <div class=”col-**sm-4** col-**sm-pull-8**”> ***Col Sidebar*** </div>

**Grid Patterns**

* **Mostly Fluid:**  A multi-column layout structure doesn't change its core layout until the xs visual breakpoint occurs and column stacked vertically down.
* **Column Drop:** A multi-column layout drops a column after each visual breakpoint occurs and dropped column stacked vertically down.
* **Layout Shifter:** Different layouts are used for different screen sizes. e.g. A left navigation column shift to the top for sm/xs.
  + **Show top** navigation column at <div class=”**visible-sm-block** ”> … </div>
  + **Hide left** navigation column <div class=”**hidden-sm-block** ”> … </div>
* **Content Reflow using Media Queries:** change content flow **inline 🡨🡪 block & resize** at visual breakpoints
  + **Mobile 1st** Custom reflow at sm md lg devices:

**@media all and (min-width: 768x)** {

.myclass **hx** { **display: x;** } // for xs device, use display: inline; to minimize the overall size

.myclass **a** { **display: x;** } //

.myclass **img** {

**width: 100%;**

**height: 100%;**

margin: …;

}

}

* **Same-height responsive columns** [**link**](http://www.minimit.com/articles/solutions-tutorials/bootstrap-3-responsive-columns-of-same-height)

**Navbar**

* **Style Classes: p.s. Not using data-toggle**
  + **.navbar-header > .navbar-toggle.collapsed (burger) / .navbar-brand** // group brand & burger together **under .navbar-header**
  + **.collapse.navbar-collapse > ul.nav.navbar-nav [.navbar-left .navbar-right] / .navbar-form [.navbar-left .navbar-right]**
  + **Others: .navbar-inverse / .navbar-fixed-top**
* **Code:** copy from [**bootstrap components navbar**](http://getbootstrap.com/components/#navbar)
* **Animated Fixed Header: a fixed header that animated its height when scroll –** [**AnimatedHeader**](https://github.com/codrops/AnimatedHeader)[**demo**](http://tympanus.net/Blueprints/AnimatedHeader/)

**Collapse – using a/button & div**

* <a **href=**"*#target*" **data-toggle="collapse"**> <button **data-target**="*#target*" **data-toggle="collapse"**>
* <div id=”*target*” **class=”collapse”** > … </div>
* **RadioButtons** trigger show/hide Collapse div #target

$('#radio1').on("click", function () {

$('#target')**.collapse('show')**;

});

$('#radio2').on("click", function () {

$('#target')**.collapse('hide')**;

});

* **Checkbox** trigger show/hide Collapse div #target

$('#checkbox1').on("click", function () {

if(**$(this).is(":checked")**)

$('#target')**.collapse('show')**;

else

$('#target')**.collapse('hide')**;

});

**Dropdown – using div & button & ul**

* **.dropdown > button.dropdown-toggle > ul.dropdown-menu**

<div class="**dropdown**">

**<button** class="btn btn-default **dropdown-toggle**" **data-toggle="dropdown"**> Dropdown <span class="caret"></span> </button>

**<ul** class="**dropdown-menu**" >

<li>**<a** href="#">Action</a></li>

<li **class="divider"**></li>

<li><a href="#">Separated link</a></li>

</ul>

</div>

**Accordian – using panel-group & panels**

* Host: <div class="**panel-group**" id="*accordion1*">
* Header & Body

<div class="**panel panel-default**">

<div class="**panel-heading**">

<a **data-parent**="*#accordion1*" **data-toggle="collapse" href**="***#collapse1***">

My Heading 1

</a>

</div>

<div id="***collapse1***" class="**panel-collapse collapse [in]**"> // optional **in: show**

<div class=”**panel-body**“>

…

</div>

</div>

</div>

**Tab – using ul & divs**

* Nav Tabs – **ul .nav.nav-tabs > li > a**

<**ul** class="**nav nav-tabs**">

<**li** class="**[active]**">

<a **data-toggle="tab"** href="***#tabpane1***">Tab 1</a>

</li>

</ul>

* Tab Panes – .**tab-content > .tab-pane**

<div class="**tab-content**">

<div class="**tab-pane [active]**" id="***tabpane1***"> // optional: **active**

…

</div>

</div>

**Image**

* **Responsive: <img** class="**img img-responsive**" src="abc.JPG" />
* **Thumbnail: <img** class="**img-thumbnail**" src="abc.JPG" />

**Table & [responsive]: <table** class=”**table [table-responsive]**”> …

**Popover**

**<div** class="popoverEnable">

**<a** tabindex="0" class="btn btn-primary" **data-toggle="popover" data-trigger="focus"** title="Title" **data-content**="Body">Dismissible popover</a>

</div>

* $('.popoverEnable [data-toggle="popover"]')**.popover()**;

**Form**

* Layout
  + Default Basic : width 100% block // label on top of input
  + **Horizontal (row/column)**: **<form** class=”**form-horizontal**” > … </div> // label & input horizontal
  + **Inline ALL**: **<form** class=”**form-inline**” > … </div> // Everything within the form single line
* Group Label & control: **.form-group** e.g. <div class=”**form-group**”> **<label** **for=”xyz”** >Age</label> **<input** … **id=”xyz”**> </div>
* Controls: **.form-control** e.g. **<input** class=”**form-control**” … >

**div.input-group > div.input-group-addon**

* **Extend** an input control place one add-on or button on either side of an input

**<div** class="**input-group**">

<input type="text" class="**form-control**" id="txtUsername" placeholder="username">

**<div** class="**input-group-addon**">@hotmail.com</div>

</div>

**Checkbox, Radio Button, Add, Toggle Glyphs**

* Inline **‘checkbox-inline’**: <div class=”**checkbox-inline**”> <input type=”checkbox” /> Male </div>
* **Verticle** **‘checkbox’ & Wrap /w <lable>** : <div class=”**checkbox**”> **<label>** <input type=”checkbox” /> Male **</label>** </div>
* **Wrap /w a Label Button**: <div class=”**checkbox[-inline]**”> **<label class=”btn btn-default”>**<input type=”checkbox”/>Male</label> </div>

**Reference & Example: Github Doc** [Link](https://github.com/vincenthome/CSS#bootstrap)