



Bootstrap 3.0

Responsive Web Design

August 8, 2014

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Agenda

- Why Bootstrap
 - Developers and Designers
- What is Bootstrap
 - The Mobile Web
- Bootstrapping of the Web
- How to Add
 - Grid System
 - Offset and Rows
 - Images and Responsive Helpers
 - Theming Bootstrap
- How to customize
- How to use Bootstrap 3 basic
- How to implement common metaphor using Bootstrap 3 components
- How to use Bootstrap 3 jQuery plugins

Developers and Designers

- Not every project has a designer
 - This Means well meaning developers often do their best to create website
 - Is does
 - www.lingscars.com
 - www.arngren.net
 - Most websites are made of the same basic parts
 - Navigation
 - Layout
 - Etc.
 - www.github.com
 - www.cnn.com
 - www.apple.com
 - www.microsoft.com
 - www.msdn.com

What is Bootstrap

- **Open Source Framework for building Web Sites**
 - A bit of CSS
 - A bit of JavaScript
 - Modular
 - Covers the 80% of the Metaphor

- **Devices and PCs are equally important now**
 - Your website is just as likely to be viewed on a tablet or phone as on a PC
 - This is used to mean building a 'mobile' version
 - No longer viable ...
 - ... Your site needs to respond to the device it's viewed on

- **What is it?**
 - Adapting Site To Mobile Devices
 - Approach usually has been to gracefully degrade
 - Philosophy created by Ethan Marcotte *

Main CSS (Common Design)

960+(Standard Browsers)

0-959 (Tablet Browsers)

0-767 (Mobiles Sizes)

0-479 (Mobile Portrait)

480-767 (Mobile
Landscape)

768-959 (Tablet
Portrait and up)

- **Media Queries**

- Work because of cascading rules
- Later rules over-rule earlier rules
- More specific rules overrule earlier rules

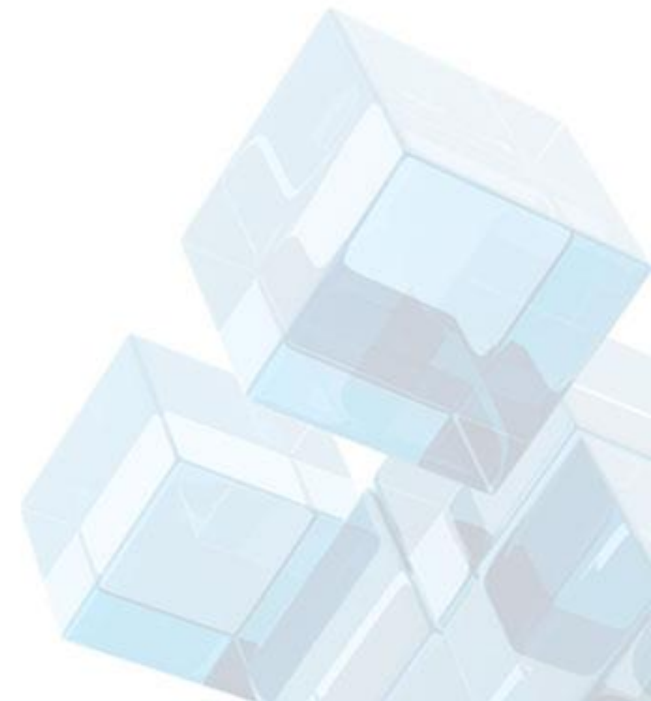
```
// Your .css
#main { width: 989px; }
@media only screen and (min-width: 768px) and (max-width: 959px) {
#main {width: 760px}
}
@media only screen and (max-width: 767px) {
#main {width: 470px}
}
```

- **Problems**

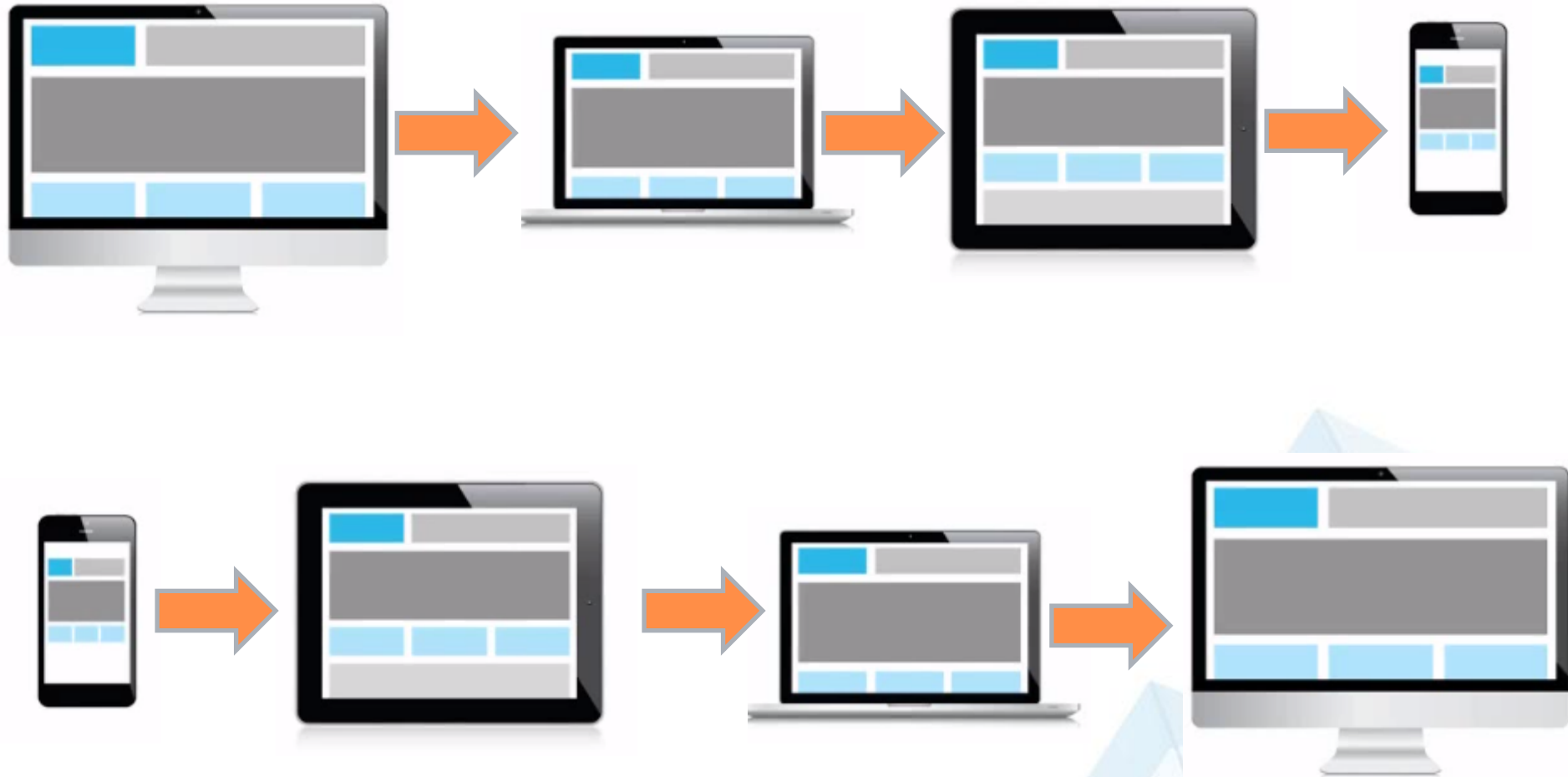
- Subtractive solution means too many resources
- All JS Code is running
 - On platform that is least suited to handle it
- Images are loaded but hidden

Mobile First Responsive Design

- Philosophy created by Luke Wroblewski*
 - Focuses on Progressive Enhancement
 - Where RWD is typically Graceful Degradation
 - Scales Up...not down



Progressive Enhancement



Main CSS (Common Design)(0-480)

>480px

>768px

> 992px

>1200px

Bootstrap 3 and Mobile First Responsive Design

- **Bootstrap < 3**
 - Supported optional Responsive Web Design
 - Great help to a many sites
 - But wasn't mobile first
- **Bootstrap 3**
 - Major changes from prior versions
 - Change to support Mobile First but...
 - Breaks existing clients

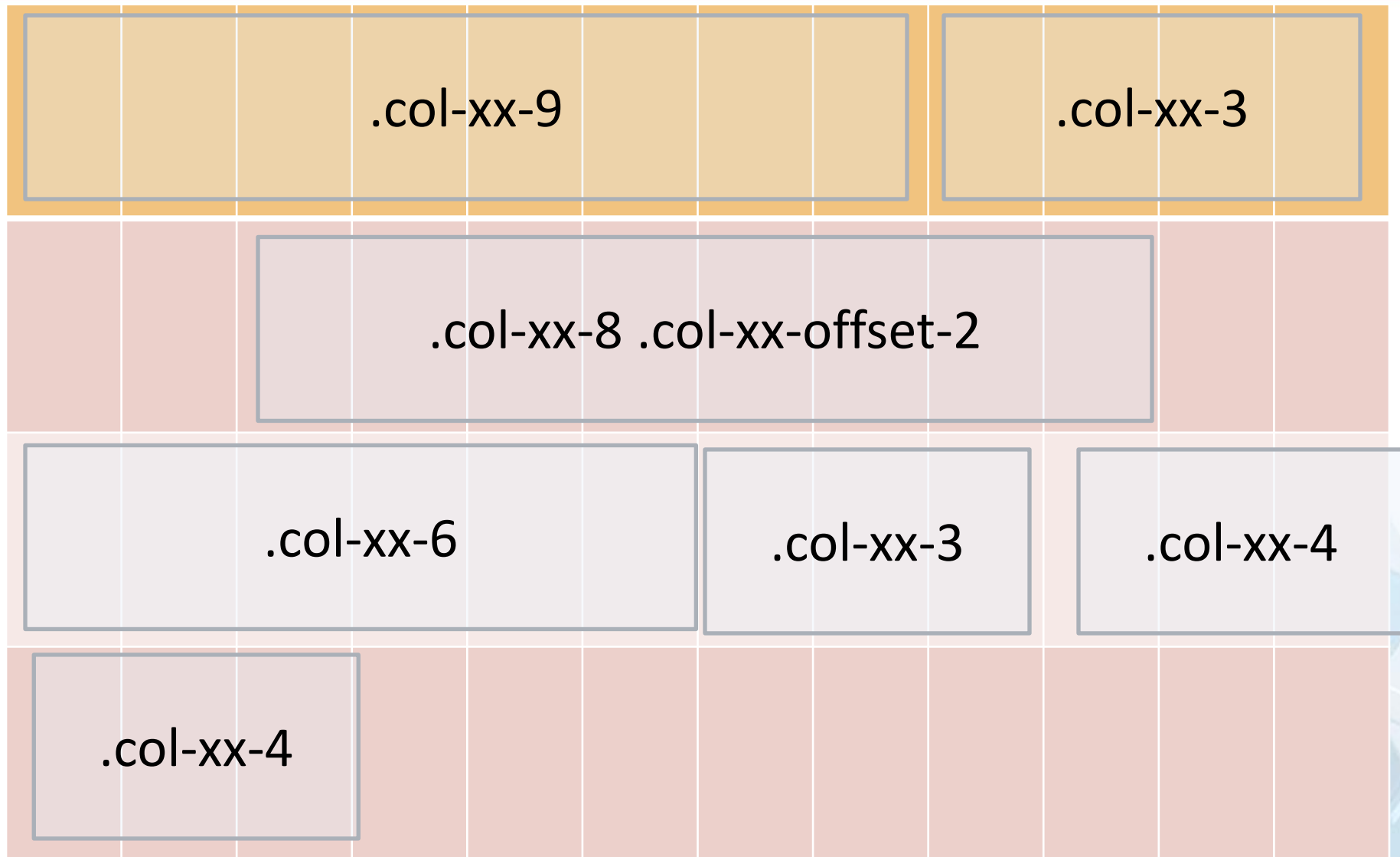
The Bootstrapping of the Web

- Bootstrap is very popular...
 - But is also means that it is to look a cookie cutter
 - Use Bootstrap as the basis but not the look of your site
- Once you use bootstrap you'll start see it everywhere
 - Avoid the temptation...

The Bootstrap Grid System



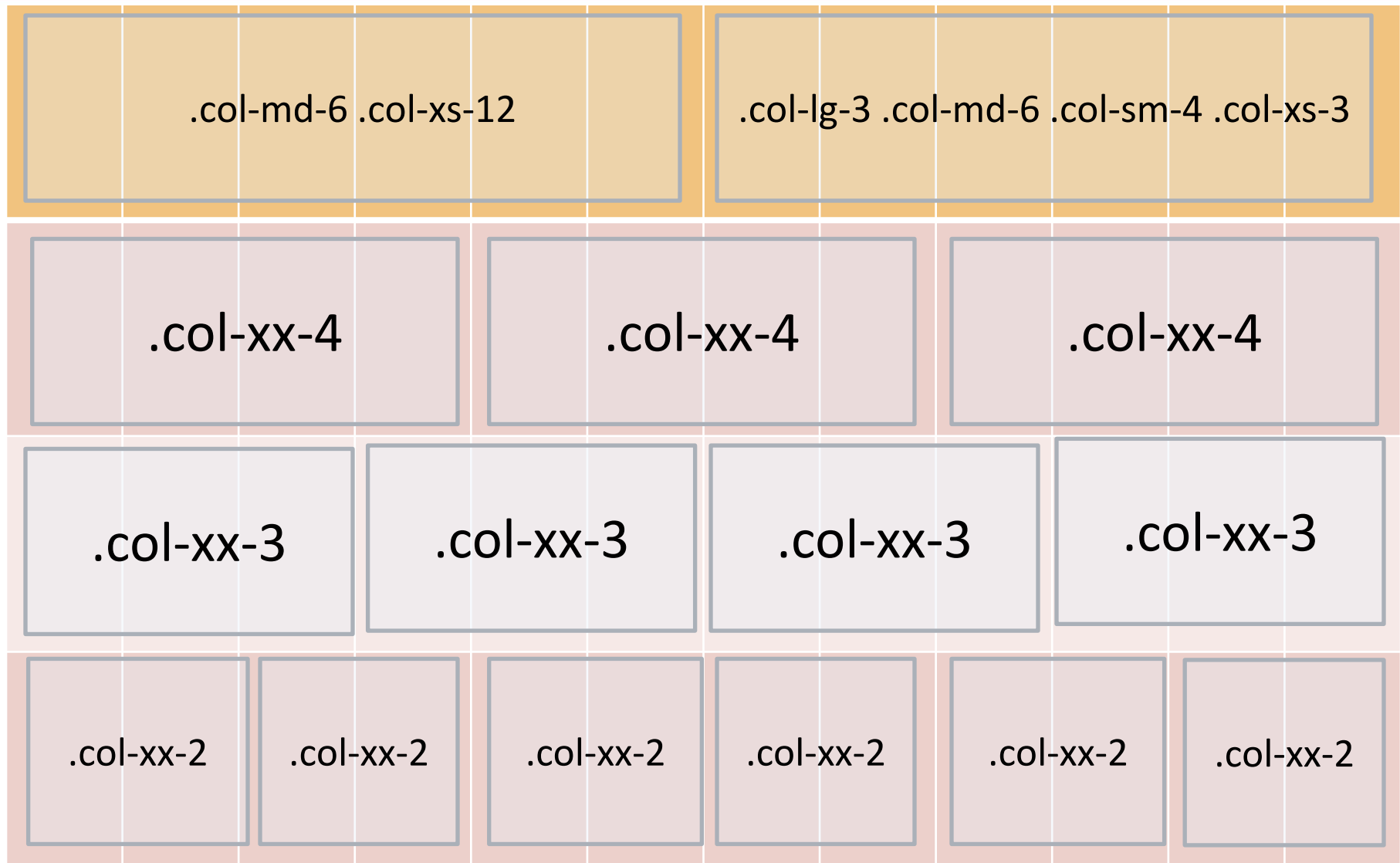
The Bootstrap Grid System



Multiple Grids

- Grid have a type for screen size:
 - .col-lg-xx: $\geq 1200\text{px}$
 - .col-md-xx: $\geq 992\text{px}$
 - .col-sm-xx: $\geq 768\text{px}$
 - .col-xs-xx: $< 768\text{px}$

The Bootstrap Grid System



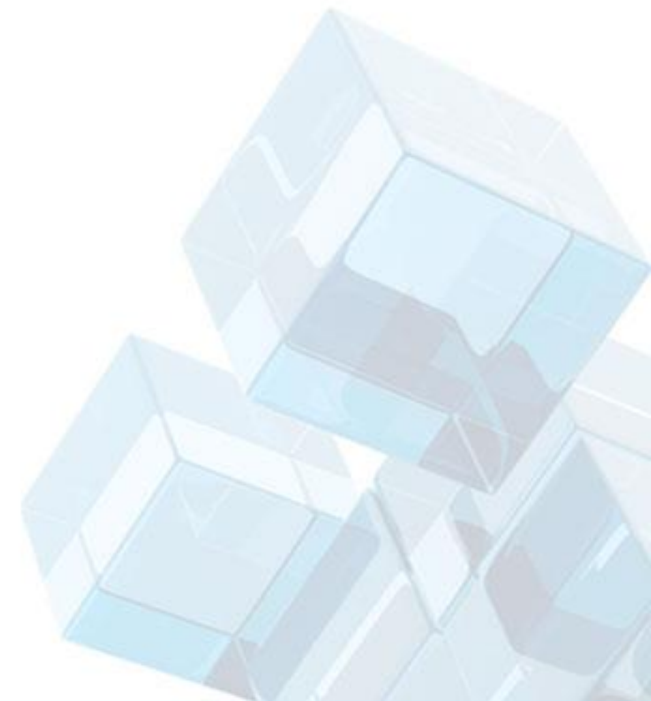
Bootstrap 3 : Basic

- Typography
 - Lead, text-muted, text-warning, text-danger etc..
- Buttons
 - btn, btn-muted, btn-warning, btn-lg, btn-sm etc..
- Icons
 - Glyphicons, glyphicon-earphone, glyphicon-chevron-down etc.
- Nav and Navbars
 - Navbar-header, navbar-nav, nav, navbar-right, active, navbar-collapse,
 - Nabbar-toogle, navbar-fixed-top etc.
- Lists
 - List-unstyled, list –inline, list-group-item etc.
- Tables
 - Table, table-striped, table-bordered, table-hover
- Forms
 - Form-group

Bootstrap 3 :Components

- Page Header and Breadcrumbs
 - Page-header,breadcrumbs
- Button Groups
 - Btn-group
- Dropdowns
 - Dropdown-menu,dropdown etc..
- Button Dropdowns
 - btn-group,btn-group-sm, caret(with span)
- Input Groups
 - Input-group, input-group-addon
- Pagination
 - Pager, pagination.
- Thumbnail
 - thumbnail,
- Panels
 - panel., panel-default, panel-header, panel-title, panel-footer
- Wells
 - well

- Collapse
 - Collapse , in





Thanks

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