



UNDERSTANDING BOOTSTRAP

For Designers

Designers' Sharing Session at Badr Interactive

Designed for everyone, everywhere.

Bootstrap makes front-end web development faster and easier. It's made for folks of all skill levels, devices of all shapes, and projects of all sizes.



Preprocessors

Bootstrap ships with vanilla CSS, but its source code utilizes the two most popular CSS preprocessors, [Less](#) and [Sass](#). Quickly get started with precompiled CSS or build on the source.



One framework, every device.

Bootstrap easily and efficiently scales your websites and applications with a single code base, from phones to tablets to desktops with CSS media queries.



Full of features

With Bootstrap, you get extensive and beautiful documentation for common HTML elements, dozens of custom HTML and CSS components, and awesome jQuery plugins.

What is Bootstrap?

A framework combining HTML, CSS, and JS to speed up your responsive website development. Originally named Twitter Blueprint, was developed by Mark Otto and Jacob Thornton at Twitter.



GLYPHIC+NS

Why Bootstrap?

Ease of use and quick to learn

Speed of development

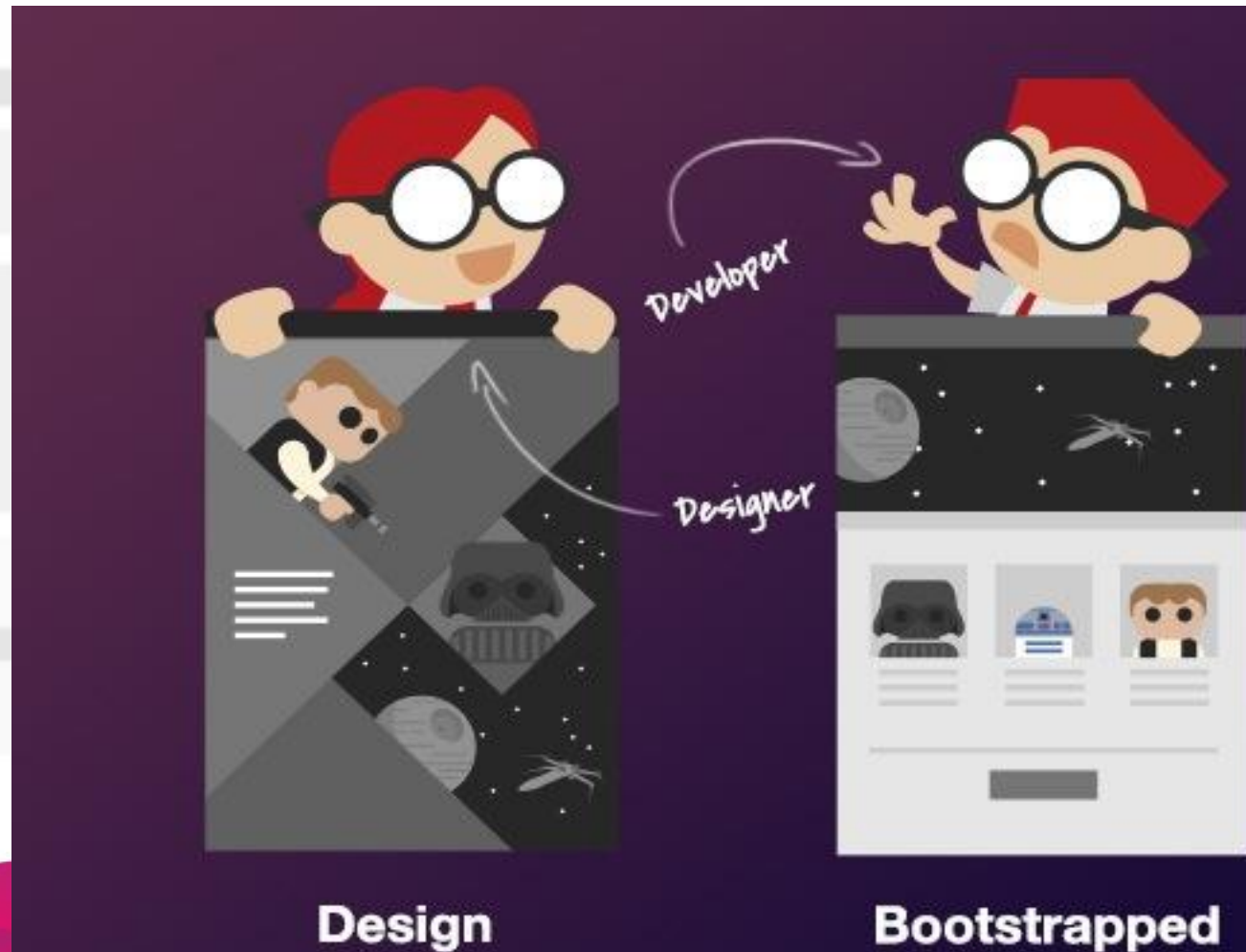
Consistent design and common components

Wide browser compatibility

Responsive framework

Why Not Bootstrap?

Without additional custom design work your site will look like any other site



Bootstrap Grid System

Used for creating page layouts through a series of rows and columns.

Rows must be placed within a `.container` (fixed-width) or `.container-fluid` (full-width) for proper alignment and padding.

Use rows to create horizontal groups of columns.

Bootstrap Grid System

	Extra small devices Phones (<768px)	Small devices Tablets (≥768px)	Medium devices Desktops (≥992px)	Large devices Desktops (≥1200px)
Grid behavior	Horizontal at all times	Collapsed to start, horizontal above breakpoints		
Container width	None (auto)	750px	970px	1170px
Class prefix	<code>.col-xs-</code>	<code>.col-sm-</code>	<code>.col-md-</code>	<code>.col-lg-</code>
# of columns	12			
Column width	Auto	~62px	~81px	~97px
Gutter width	30px (15px on each side of a column)			
Nestable	Yes			
Offsets	Yes			
Column ordering	Yes			

Bootstrap Grid System

.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1
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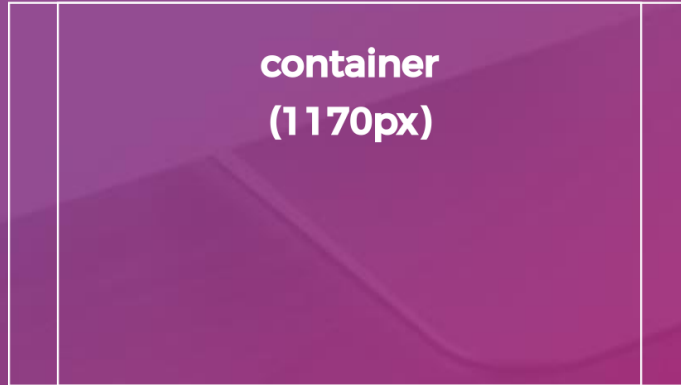
.col-md-8	.col-md-4
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.col-md-4	.col-md-4	.col-md-4
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.col-md-6	.col-md-6
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Container vs Container-fluid

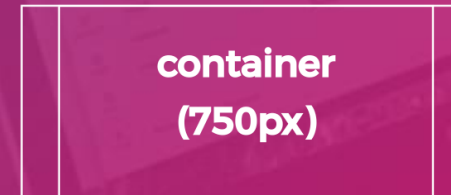
Large Devices
($\geq 1200\text{px}$)



Medium Devices
(992 px - 1199px)



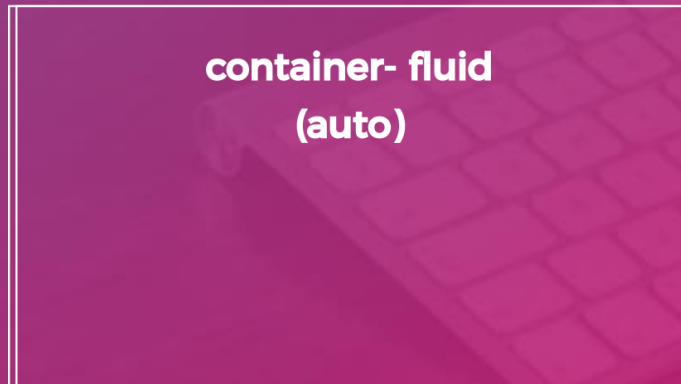
Small Devices
(768px - 991px)



Small Devices
($<768\text{px}$)



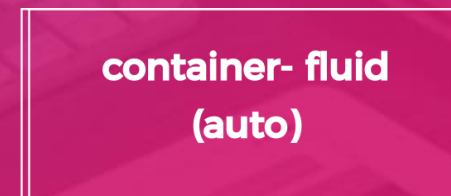
container- fluid
(auto)



container- fluid
(auto)



container- fluid
(auto)



container- fluid (auto)



Bootstrap Component

Various Customized HTML Components in Bootstrap:

Glyphicons

Dropdowns

Button groups

Navs Navbar

and many more..

How the '*Responsive*' works

The 'Responsive' Works in bootstrap via the combination of grid systems and a magic @media query:

```
/* Extra small devices (phones, less than 768px) */  
/* No media query since this is the default in Bootstrap */  
  
/* Small devices (tablets, 768px and up) */  
@media (min-width: @screen-sm-min) { ... }  
  
/* Medium devices (desktops, 992px and up) */  
@media (min-width: @screen-md-min) { ... }  
  
/* Large devices (large desktops, 1200px and up) */  
@media (min-width: @screen-lg-min) { ... }
```

Copy

Best Practice for Designer

Make use of Bootstrap grid layout and stick to it.

Use pre-defined Bootstrap component optimally.

Create a Bootstrap-based UI Guideline to ease and speed-up the development process.

Browse or research for Bootstrap-based website themes/templates

Create two UI design version: for mobile and desktop.

Bootstrap Showcase

<http://expo.getbootstrap.com/>

<https://startbootstrap.com/>

<http://builtwithbootstrap.com/>

Dive In More..

<http://getbootstrap.com>

<https://gianthatworks.com/entry/bootstrap-for-designers>

<https://www.sitepoint.com/understanding-bootstrap-grid-system/>

<http://www.helloerik.com/the-subtle-magic-behind-why-the-bootstrap-3-grid-works>

<http://blog.jetstrap.com/2013/08/bootstrap-3-grids-explained/>