

CSS Frameworks

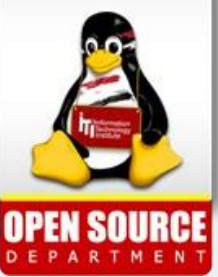


CSS for ALL

Agenda

- What is bootstrap?
- Why bootstrap ?
- Getting Started
- Bootstrap grid-
- system Bootstrap
- typography
- Bootstrap images
- Bootstrap buttons

What is Bootstrap

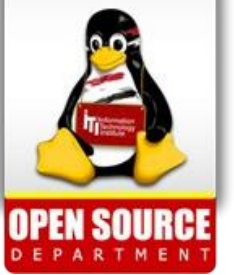


What is Bootstrap?

- Bootstrap is a powerful front-end framework for faster and easier web development.
- It is a free collection of tools for creating websites and web applications.
- It contains HTML and CSS-based design templates for typography, forms, buttons, navigation and other interface components, as well as optional JavaScript extensions.
- In August 2011, **Twitter** released Bootstrap as open source. In June 2014 it was the No.1 project on **GitHub** with over 73,000 stars.
- Bootstrap was developed by **Mark Otto** and **Jacob Thornton** at Twitter as a framework to encourage consistency across internal tools.



What is Bootstrap?



css

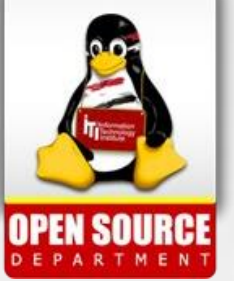
- bootstrap.css
- bootstrap.css.map
- bootstrap.min.css
- bootstrap-theme.css
- bootstrap-theme.css.map
- bootstrap-theme.min.css

fonts

- glyphicons-halflings-regular.eot
- glyphicons-halflings-regular.svg
- glyphicons-halflings-regular.ttf
- glyphicons-halflings-regular.woff
- glyphicons-halflings-regular.woff2

js

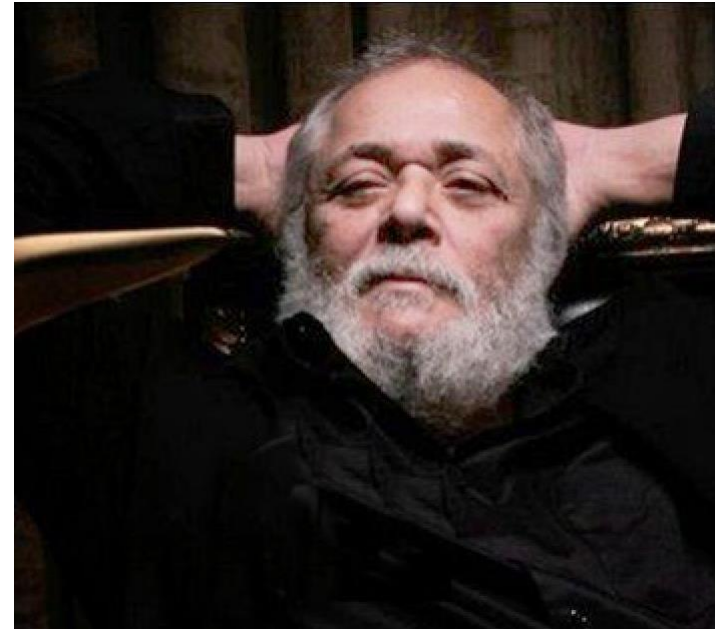
- bootstrap.js
- bootstrap.min.js
- npm.js



Why Bootstrap?

Why Bootstrap?

- **Save lots of time**
- **Responsive features**
- **Consistent design**
- **Easy to to use**
- **Compatible with browsers**



And the best part is
it is Open Source :)

Why Bootstrap?

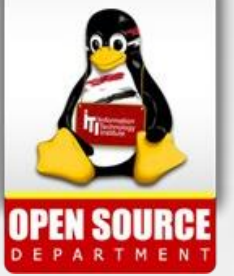


PORTFOLIO



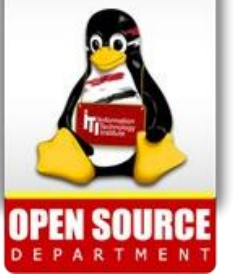
websites using
Bootstrap





Getting Started

Getting Started

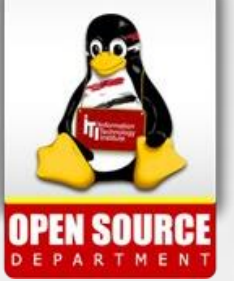


```
.
├── css
│   ├── bootstrap.css
│   ├── bootstrap.css.map
│   ├── bootstrap.min.css
│   ├── bootstrap-theme.css
│   ├── bootstrap-theme.css.map
│   └── bootstrap-theme.min.css
├── fonts
│   ├── glyphsicons-halflings-regular.eot
│   ├── glyphsicons-halflings-regular.svg
│   ├── glyphsicons-halflings-regular.ttf
│   ├── glyphsicons-halflings-regular.woff
│   └── glyphsicons-halflings-regular.woff2
└── js
    ├── bootstrap.js
    ├── bootstrap.min.js
    └── npm.js
```

Getting Started

- Include the css minified version of bootstrap in head
- Include the js minified version of jquery and bootstrap.js at the end of body

```
<!DOCTYPE html>
<html>
<head lang="en">
  <meta charset="UTF-8">
  <title>Bootstrap Start</title>
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" type="text/css" href="../../css/bootstrap.min.css">
</head>
<body>
  Hello BootStrap!
  <script src="http://code.jquery.com/jquery.min.js"></script>
  <script src="../../js/bootstrap.min.js"></script>
</body>
</html>
```



Bootstrap Grid-System

Bootstrap Grid-System

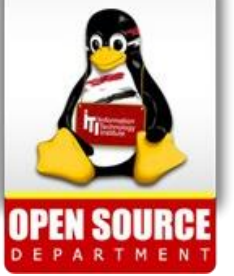
- **Grid systems** are used for creating page layouts through a series of rows and columns that house your content.
- Rows must be placed within a **.container** (fixed-width) or **.container- fluid** (full-width) for proper alignment and padding.
[more](#)
- Use rows to create horizontal groups of columns.
- Content should be placed within columns, and only columns may be immediate children of rows.
- Predefined grid classes like **.row** and **.col-xs-4** are available for quickly making grid layouts.
- Columns create **gutters** (gaps between column content) via padding.

Bootstrap Grid-System

- Grid columns are created by specifying the number of **twelve** available columns you wish to span. For example, three equal columns would use three `.col-xs-4`.
- If more than **12 columns** are placed within a single row, each group of extra columns will, as one unit, wrap onto a new line.

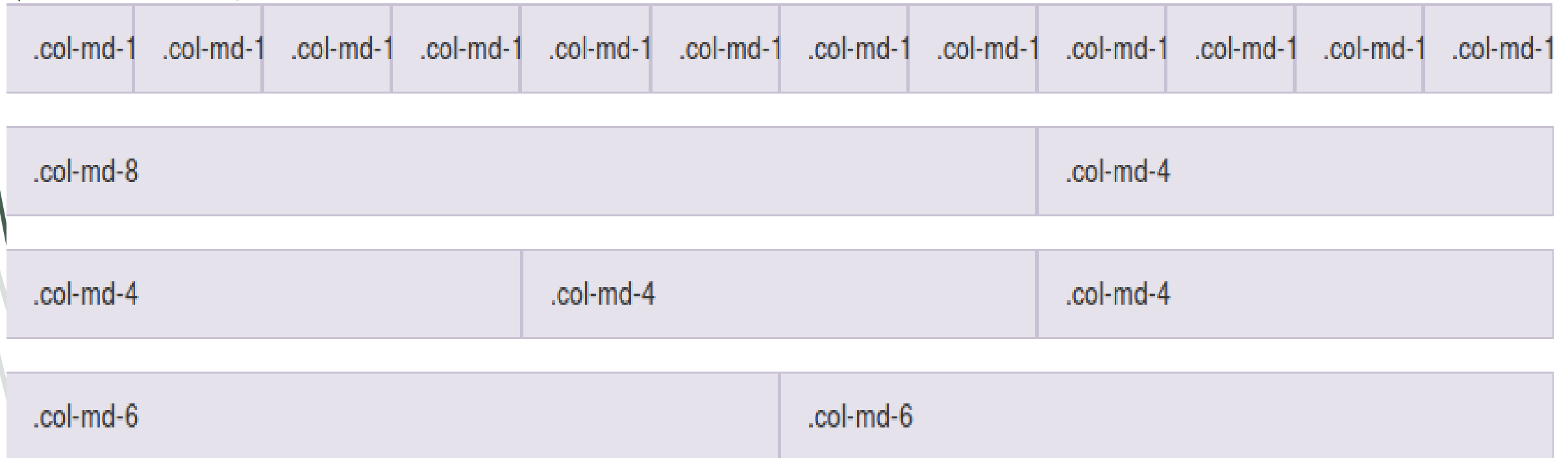


Bootstrap Grid-System

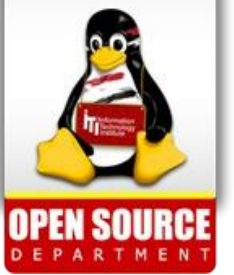


Bootstrap Grid-System

Stacked-to-horizontal



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

Mobile and Desktop

`.col-xs-12 .col-md-8`

`.col-xs-6 .col-md-4`

`.col-xs-6 .col-md-4`

`.col-xs-6 .col-md-4`

`.col-xs-6 .col-md-4`

`.col-xs-6`

`.col-xs-6`

Bootstrap Grid-System

Mobile, Tablets and Desktop

.col-xs-12 .col-sm-6 .col-md-8

.col-xs-6 .col-md-4

.col-xs-6 .col-sm-4

.col-xs-6 .col-sm-4

.col-xs-6 .col-sm-4

Bootstrap Grid-System

Column wrapping

`.col-xs-9`

`.col-xs-4`

Since $9 + 4 = 13 > 12$, this
4-column-wide div gets wrapped onto a
new line as one contiguous unit.

`.col-xs-6`

Subsequent columns continue along the new line.

Bootstrap Grid-System

Responsive Column Reset

`.col-xs-6 .col-sm-3`

Resize your viewport or
check it out on your phone
for an example.

`.col-xs-6 .col-sm-3`

`.col-xs-6 .col-sm-3`

`.col-xs-6 .col-sm-3`

Bootstrap Grid-System

Nesting Columns

Level 1: `.col-sm-9`

Level 2: `.col-xs-8 .col-sm-6`

Level 2: `.col-xs-4 .col-sm-6`

Bootstrap Grid-System

Offsetting columns

.col-md-4

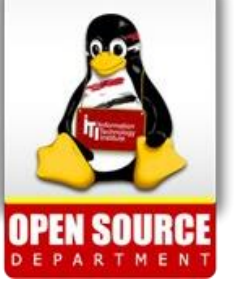
.col-md-4 .col-md-offset-4

.col-md-3 .col-md-offset-3

.col-md-3 .col-md-offset-3

.col-md-6 .col-md-offset-3

Bootstrap Typography



Bootstrap Typography

➤ Headings

- All HTML headings, <h1> through <h6>, are available. .h1 through .h6 classes are also available, for when you want to match the font styling of a heading but still want your text to be displayed inline.

EXAMPLE

h1. Bootstrap heading

Semibold 36px

h2. Bootstrap heading

Semibold 30px

h3. Bootstrap heading

Semibold 24px

h4. Bootstrap heading

Semibold 18px

h5. Bootstrap heading

Semibold 14px

h6. Bootstrap heading

Semibold 12px

Bootstrap Typography

TAGS

- › del and s
- › u and ins
- › small
- › strong and b
- › em and i
- › mark
- › abbr

Bootstrap Typography

Classes

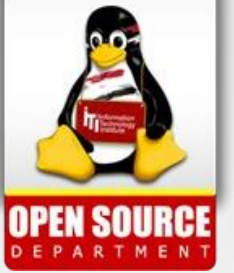
- › .lead class
- › Alignment (text-[start,end,center,nowrap])
- › Transformation (text-[lowercase,uppercase,capitalize])

Bootstrap Typography

Lists

- Ordered and unordered lists
- `list-[unstyled,list-inline]`
- `dl`, `dd` and `dt` tags with `dl-horizontal` class (Note: auto-truncating)

Bootstrap Images



Bootstrap Images

- **Responsive images:**

Images in Bootstrap 5 can be made responsive-friendly via the addition of the **.img-fluid** class.

This applies max-width: 100%; and height: auto; to the image so that it scales nicely to the parent element.

- **Image shapes:**

img-[rounded,circle,thumbnail] class

