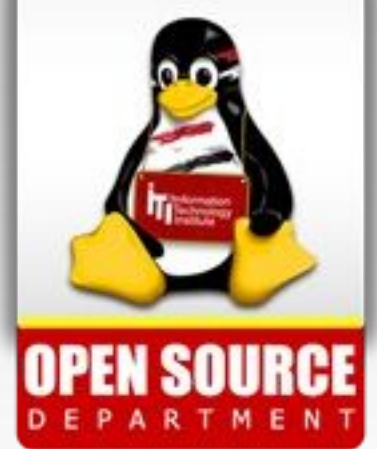


# CSS Frameworks

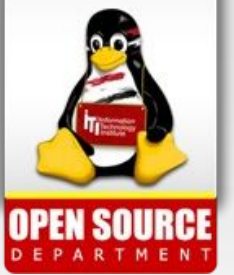


*CSS for ALL*



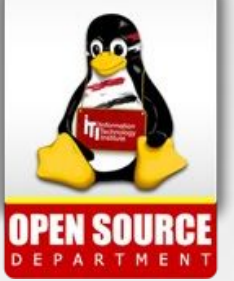
# Agenda

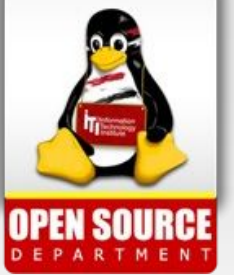
---



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

# What is Bootstrap

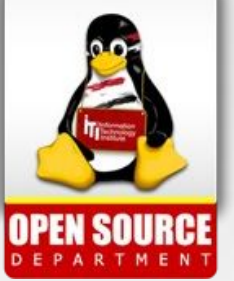




# What is Bootstrap?

- Bootstrap is a powerful framework for faster and easier web front-end 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.



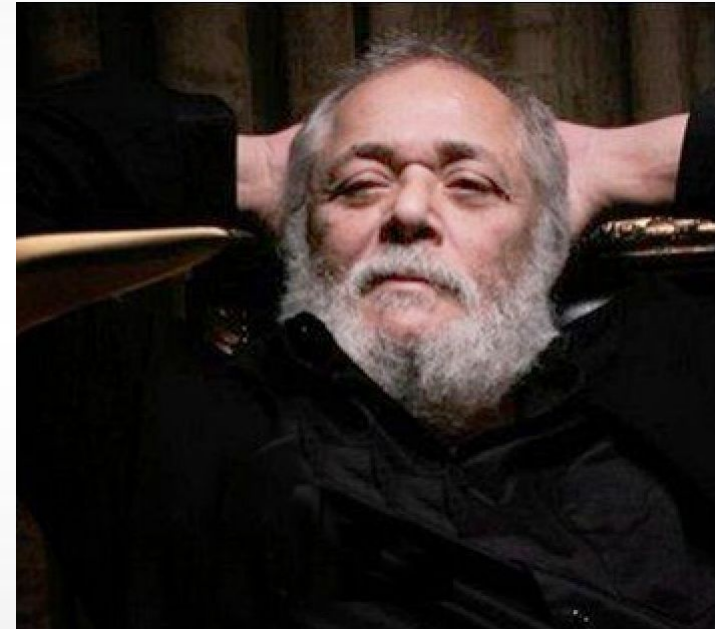


# Why Bootstrap?

# Why Bootstrap?

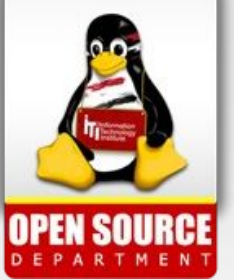


- **Save lots of time**
- **Responsive features**
- **Consistent design**
- **Easy to to use**
- **Compatible with browsers**



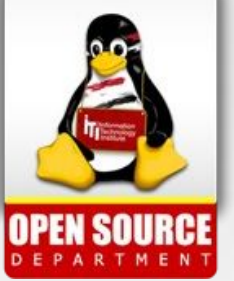
And the best part is  
**it is Open Source :)**

# Why Bootstrap?



websites using  
**Bootstrap**

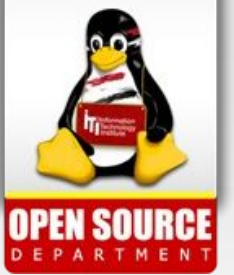




# Getting Started

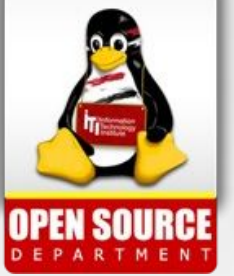


# Getting Started



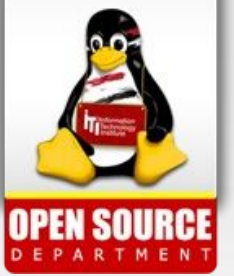
- Include the css minified version of bootstrap in head
- Include the js minified version of jquery and bootstrap.js at the end of body

```
<!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>
```



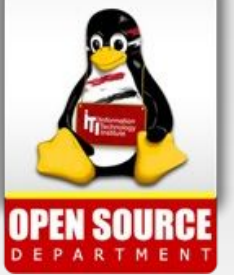
# Bootstrap Grid-System

# 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.

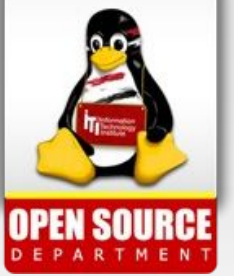
# Bootstrap Grid-System



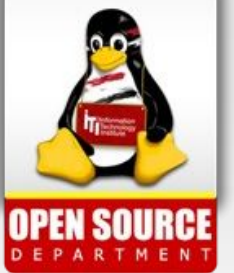
- Grid columns are created by specifying the number of twelve available columns you wish to span. For example, three equal columns would use three `.col-xs-4`.
- If more than **12 columns** are placed within a single row, each group of extra columns will, as one unit, wrap onto a new line.



# Bootstrap Grid-System

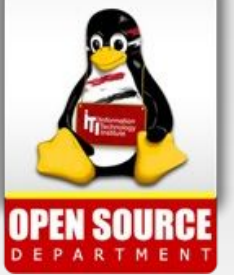


# Bootstrap Grid-System



	<b>xs</b> <576px	<b>sm</b> ≥576px	<b>md</b> ≥768px	<b>lg</b> ≥992px	<b>xl</b> ≥1200px
<b>Container</b> <code>max-width</code>	None (auto)	540px	720px	960px	1140px
<b>Class prefix</b>	<code>.col-</code>	<code>.col-sm-</code>	<code>.col-md-</code>	<code>.col-lg-</code>	<code>.col-xl-</code>
<b># of columns</b>	12				
<b>Gutter width</b>	1.5rem (.75rem on left and right)				
<b>Custom gutters</b>	<a href="#">Yes</a>				
<b>Nestable</b>	<a href="#">Yes</a>				

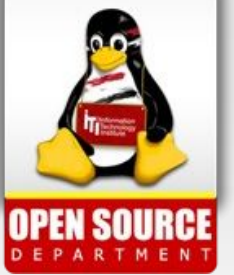
# Bootstrap Grid-System



## Stacked-to-horizontal

.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
.col-md-8								.col-md-4			
.col-md-4				.col-md-4				.col-md-4			
.col-md-6						.col-md-6					

# 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

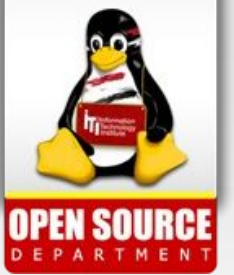
.col-xs-6 .col-md-4

.col-xs-6

.col-xs-6



# Bootstrap Grid-System



## Mobile, Tablets and Desktop

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

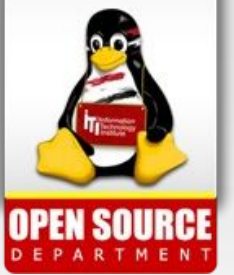
.col-xs-6 .col-md-4

.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`

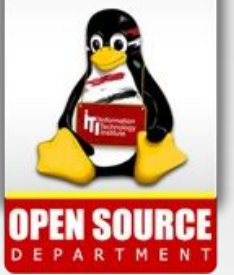
`.col-xs-4`

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

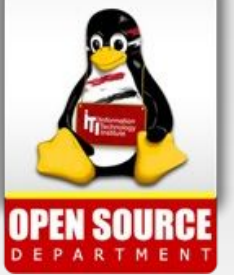
Resize your viewport or  
check it out on your phone  
for an example.

.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

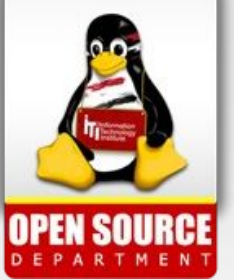
.col-md-3 .col-md-offset-3

.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

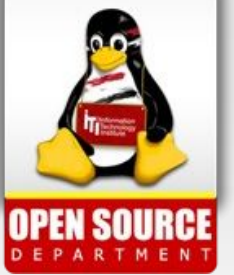
**h5. Bootstrap heading**

Semibold 14px

**h6. Bootstrap heading**

Semibold 12px

# Bootstrap Typography

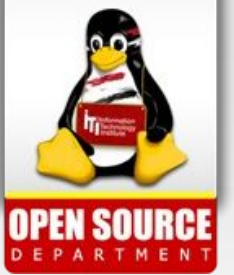


## Classes

- .lead class
- Alignment (text-[left,right,center,justify,nowrap])
- Transformation (text-[lowercase,uppercase,capitalize])



# Bootstrap Typography

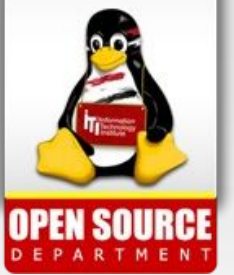


## Lists

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

# Bootstrap Typography

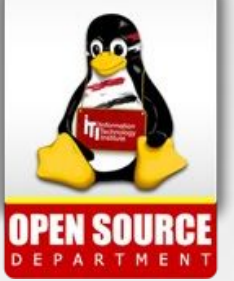
---



## Code

- `<code>` tag
- `<kbd>` tag
- `<pre>` tag
- `<var>` tag
- `<samp>` tag

# Bootstrap Images



# Bootstrap Images

---

## ➤ **Responsive images:**

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

