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2.1: Bootstrap grid system

### Grid System in Bootstrap

- Grid systems are used for creating page layouts through a series of rows and columns to wrap the site content.
- Primarily grids are about providing structure. For web designers a grid defines the horizontal and vertical guidelines for arranging content and enforcing margins.
- Grids also define an intuitive structure for viewers because it's easy to follow a left to right or a right to left flow of content moving down the page.
- The grid won't be visible with border like table, but it exists behind the scenes to provide order alignment and consistency.
- Bootstrap includes a grid system amongst its features.

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2.1: Bootstrap grid system

# Bootstrap grid system

- ➤ Bootstrap includes a responsive, mobile first fluid grid system that appropriately scales up to 12 columns as the device or viewport size increases.
- Every row in Bootstrap consists of 12 columns.
- Rows must be placed within a .container class for proper alignment and padding.
- 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-xx-4 are available for quickly making grid layouts.

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2.1: Bootstrap grid system

# Bootstrap grid system - Contd...

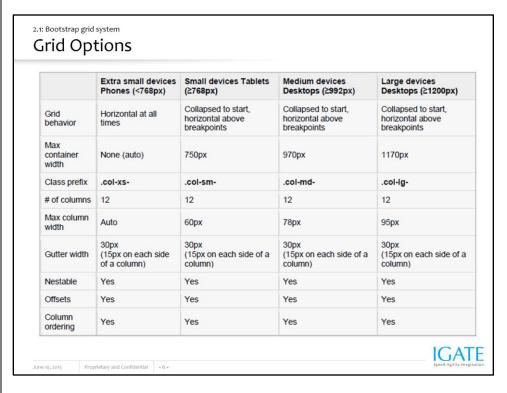
- Grid columns are created by specifying the number of twelve available columns you wish to span. For example, three equal columns would use three .col-xx-4.
- Columns create gutters (gaps between column content) via padding. That padding is offset in rows for the first and last column via negative margin on .rows.
- Grid has 4 sizes
  - Ig: indicates that the large grid displaying. The grid stacks horizontally < 1200px.
  - md: indicates that the medium grid displaying. The grid stacks horizontally < 992px.</li>
  - sm: indicates that the small grid displaying. The grid stacks horizontally < 768px.
  - xs: indicates that the extra small grid displaying. This grid is always horizontal.

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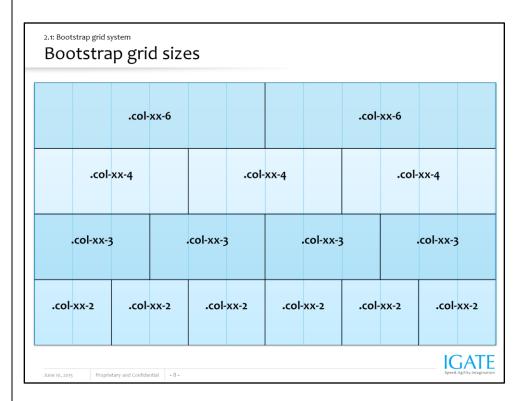


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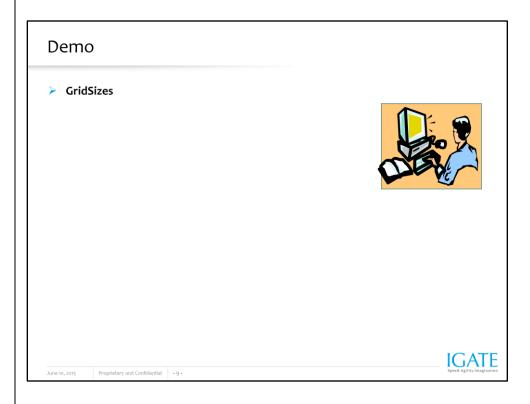
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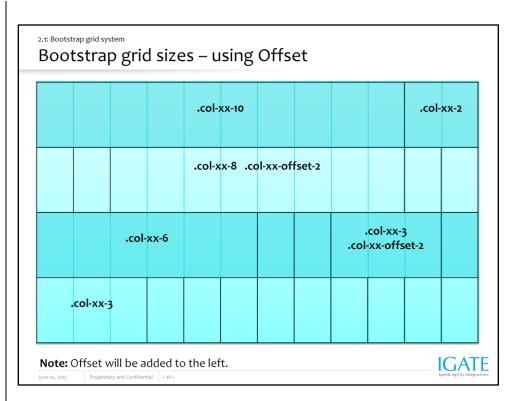
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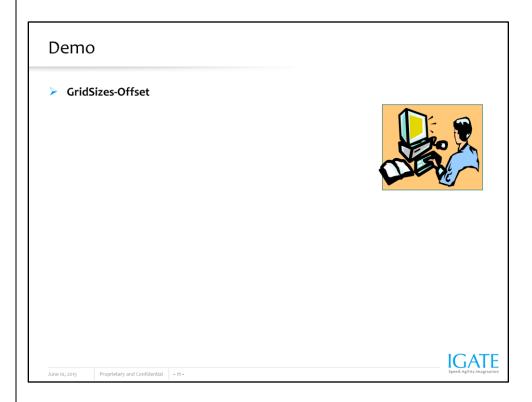
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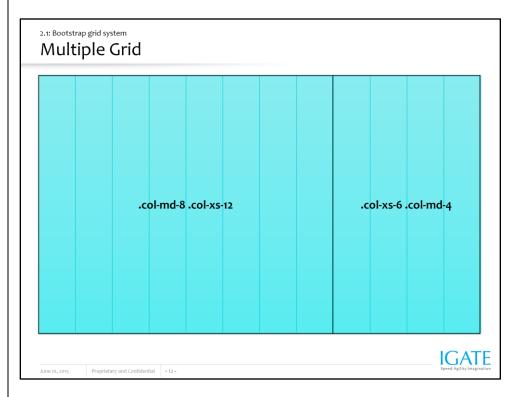
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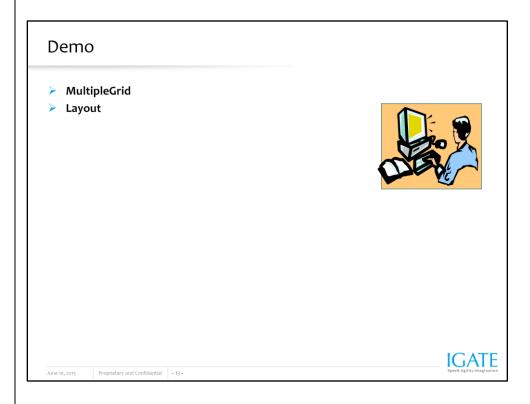
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### Helper Classes & Responsive Utilities

Work with Images: We can apply simple styles to images like rounded corners, circle images & padding with gray border which fits all sizes

- <img src="images/image.jpg" alt="Image" class="img-rounded"/>
- <img src="images/image.jpg" alt="Image" class="img-circle"/>
- <img src="images/image.jpg" alt="Image" class="img-thumbnail"/>
- <img src="images/image.jpg" alt="Image" class="img-responsive"/>

Center content blocks: To set an element to center

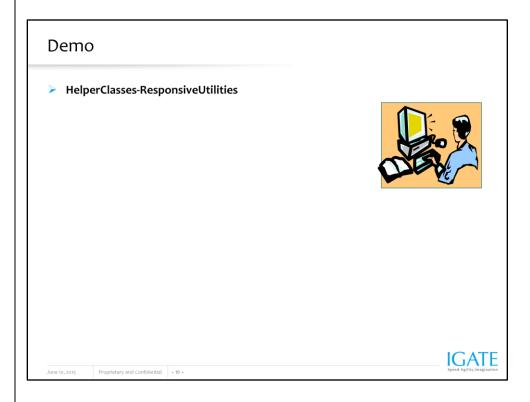
- <div class="center-block" style="width:150px;">Centered-Content</div>

Responsive utilities: It is used for showing and hiding content by device via media query combined with large, medium, small & extra small devices

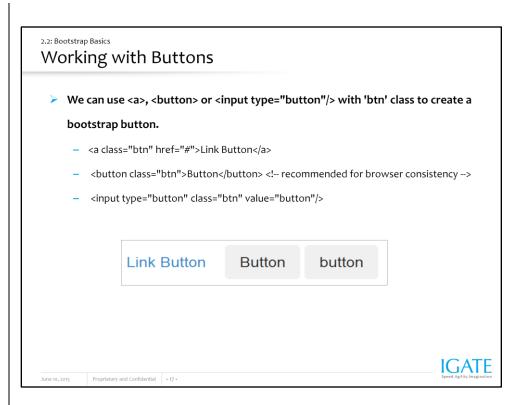
- <div class="visible-md"><div class="hidden-md"><hi>hi>hidden at Medium Mode</hi></div>

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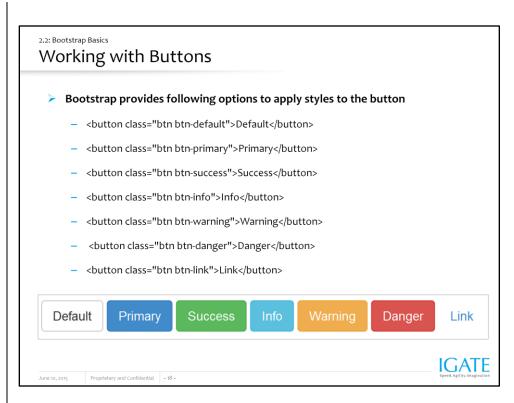


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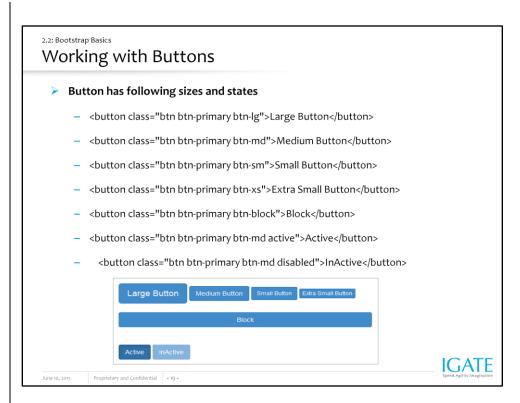
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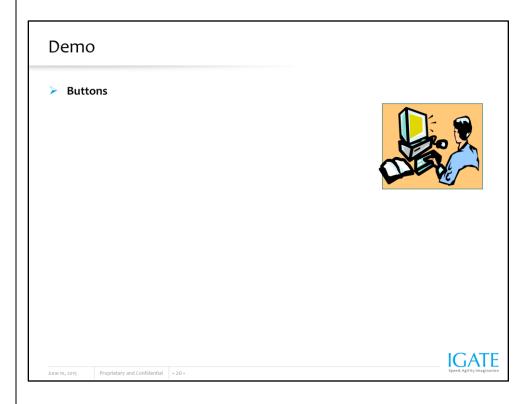


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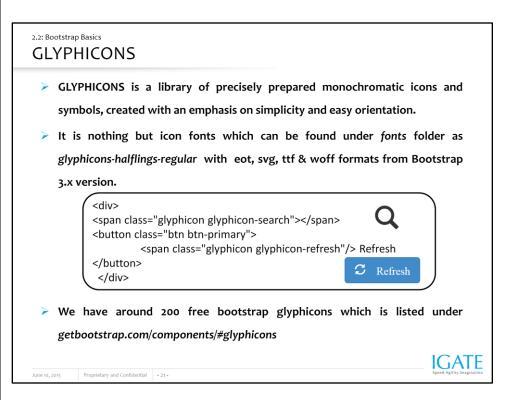
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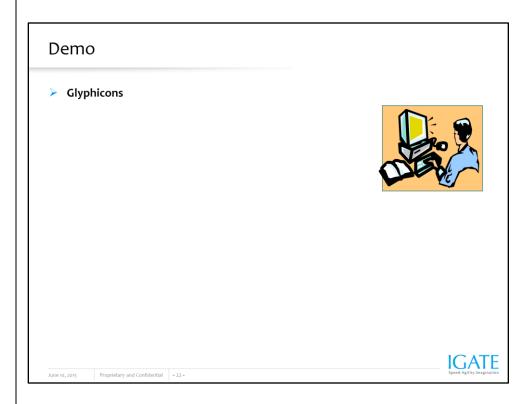
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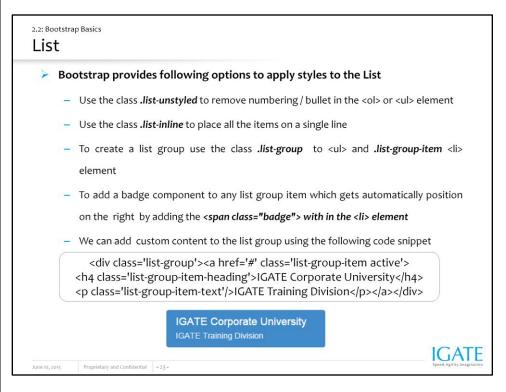
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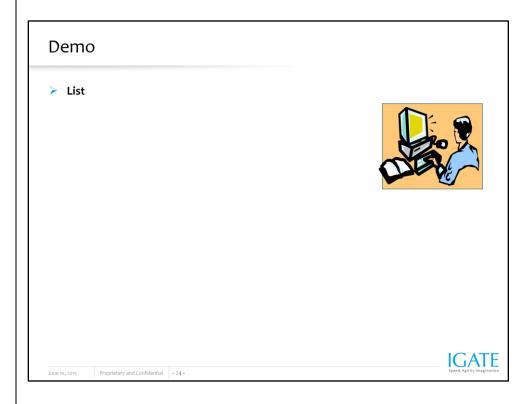
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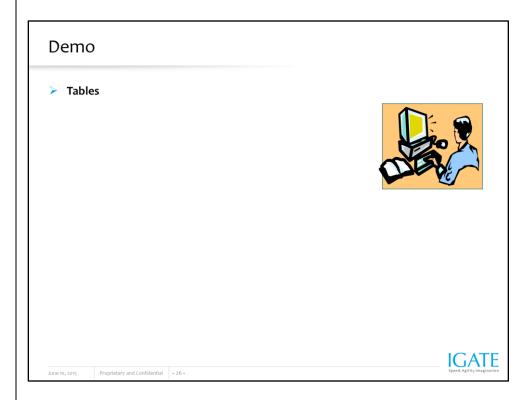
2.2: Bootstrap Basics

### **Tables**

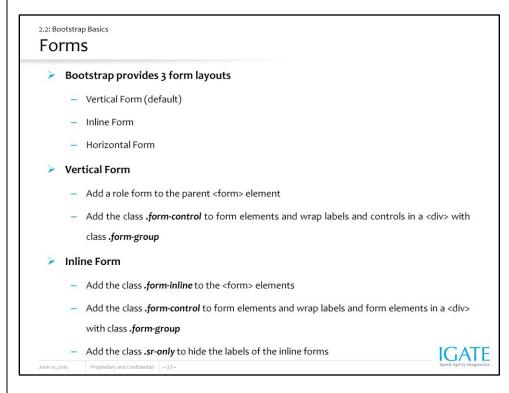
- Bootstrap provides a clean layout for building tables. Following classes can be used to apply styles over the table.
  - table: To create a basic Bootstrap style table which takes 100% of the width of its container, and it also adds in some horizontal dividers.
  - table-striped: Provides a striping effect for the alternate rows in a table.
  - table-bordered: Provide a border to the table
  - table-hover: To add a slight hover effect as the mouse moves over a table row.
  - table-condensed: It removes most of the cell padding and make the table a little more streamlined.
  - table-responsive: It makes the table scroll horizontally to view the contents in small devices
- Contextual classes: active, success, warning and danger is used to apply background color for the table rows or individual cells.

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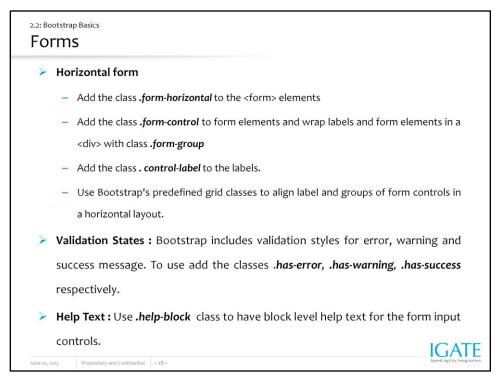


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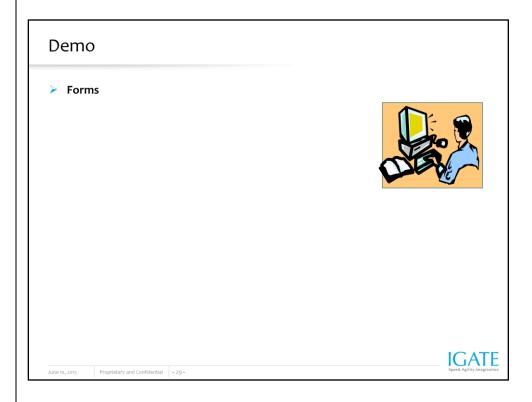


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Using typography
 Using typography feature of Bootstrap we can create headings, paragraphs, lists and other inline elements.

 All html headings(h1 to h6) are styled in bootstrap.
 By adding .lead class to the paragraph, we can have a larger font size, lighter weight, and a taller line height.
 <em> tag emphasizes a text in italics and <strong> tag makes the text bold
 <small> tag sets text at 85% the size of the parent
 <abbr> styles the element with a light border along the bottom and reveals the full text on hover
 <address> styles the contact information on web page. We need to use line breaks to break the lines because <address> default to display:block

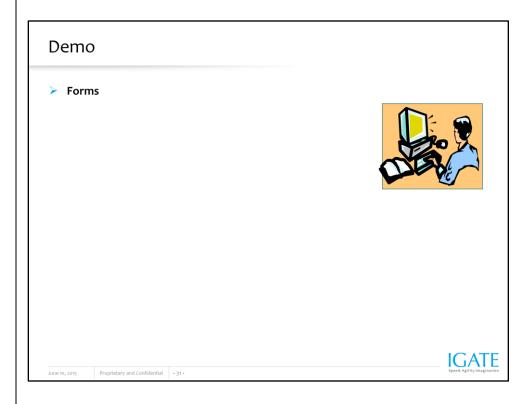
text-left, text-center, text-right, text-muted, text-primary, text-success, text-info,

text-warning and text-danger class used to apply the styles to the text

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# Summary

- Bootstrap includes a responsive, mobile first fluid grid system that appropriately scales up to 12 columns as the device or viewport size increases.
- Bootstrap provides 3 form layouts Vertical Form (default), Inline Form & Horizontal Form
- Bootstrap provides a clean layout for building tables
- Using typography feature of Bootstrap we can create headings, paragraphs, lists and other inline elements.





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