Bootstrap Grid System

Bootstrap's grid system allows up to 12 columns across the page.

If you do not want to use all 12 columns individually, you can group the columns together to create wider columns:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 | span 1 |
| span 4 | | | | span 4 | | | | span 4 | | | |
| span 4 | | | | span 8 | | | | | | | |
| span 6 | | | | | | span 6 | | | | | |
| span 12 | | | | | | | | | | | |

Bootstrap's grid system is responsive, and the columns will re-arrange automatically depending on the screen size.

## Grid Classes

The Bootstrap grid system has four classes:

* xs (for phones - screens less than 768px wide)
* sm (for tablets - screens equal to or greater than 768px wide)
* md (for small laptops - screens equal to or greater than 992px wide)
* lg (for laptops and desktops - screens equal to or greater than 1200px wide)

The classes above can be combined to create more dynamic and flexible layouts.

## Basic Structure of a Bootstrap Grid

<div class="row">  
  <div class="col-\*-\*"></div>  
  <div class="col-\*-\*"></div>  
</div>  
<div class="row">  
  <div class="col-\*-\*"></div>  
  <div class="col-\*-\*"></div>  
  <div class="col-\*-\*"></div>  
</div>  
<div class="row">  
  ...  
</div>

## Three Equal Columns

<div class="row">  
  <div class="col-sm-4">.col-sm-4</div>  
  <div class="col-sm-4">.col-sm-4</div>  
  <div class="col-sm-4">.col-sm-4</div>  
</div>

## Two Unequal Columns

<div class="row">  
  <div class="col-sm-4">.col-sm-4</div>  
  <div class="col-sm-8">.col-sm-8</div>  
</div>

# Bootstrap Text/Typography

## Bootstrap vs. Browser Defaults

In this chapter, we will look at some HTML elements that will be styled a little bit differently by Bootstrap than browser defaults.

## <h1> - <h6>

By default, Bootstrap will style the HTML headings (<h1> to <h6>) in the following way:

<div class="container">

<h1>h1 Bootstrap heading (36px)</h1>

<h2>h2 Bootstrap heading (30px)</h2>

<h3>h3 Bootstrap heading (24px)</h3>

<h4>h4 Bootstrap heading (18px)</h4>

<h5>h5 Bootstrap heading (14px)</h5>

<h6>h6 Bootstrap heading (12px)</h6>

</div>

## <small>

In Bootstrap the HTML <small> element is used to create a lighter, secondary text in any heading:

# h1 heading secondary text

<div class="container">

<h1>Lighter, Secondary Text</h1>

<p>The small element is used to create a lighter, secondary text in any heading:</p>

<h1>h1 heading <small>secondary text</small></h1>

<h2>h2 heading <small>secondary text</small></h2>

<h3>h3 heading <small>secondary text</small></h3>

<h4>h4 heading <small>secondary text</small></h4>

<h5>h5 heading <small>secondary text</small></h5>

<h6>h6 heading <small>secondary text</small></h6>

</div>

## <mark>

Bootstrap will style the HTML <mark> element in the following way:

Use the mark element to highlight text.

<div class="container">

<h1>Highlight Text</h1>

<p>Use the mark element to <mark>highlight</mark> text.</p>

</div>

## <abbr>

Bootstrap will style the HTML <abbr> element in the following way:



<div class="container">

<h1>Abbreviations</h1>

<p>The abbr element is used to mark up an abbreviation or acronym:</p>

<p>The <abbr title="World Health Organization">WHO</abbr> was founded in 1948.</p>

</div>

## <blockquote>

Bootstrap will style the HTML <blockquote> element in the following way:

For 50 years, WWF has been protecting the future of nature. The world's leading conservation organization, WWF works in 100 countries and is supported by 1.2 million members in the United States and close to 5 million globally.

From WWF's website

<div class="container">

<h1>Blockquotes</h1>

<p>The blockquote element is used to present content from another source:</p>

<blockquote>

<p>For 50 years, WWF has been protecting the future of nature. The world's leading conservation organization, WWF works in 100 countries and is supported by 1.2 million members in the United States and close to 5 million globally.</p>

<footer>From WWF's website</footer>

</blockquote>

</div>

To show the quote on the right, use the .blockquote-reverse class:

For 50 years, WWF has been protecting the future of nature. The world's leading conservation organization, WWF works in 100 countries and is supported by 1.2 million members in the United States and close to 5 million globally.

From WWF's website

<div class="container">

<h1>Blockquotes</h1>

<p>To show the quote on the right use the class .blockquote-reverse:</p>

<blockquote class="blockquote-reverse">

<p>For 50 years, WWF has been protecting the future of nature. The world's leading conservation organization, WWF works in 100 countries and is supported by 1.2 million members in the United States and close to 5 million globally.</p>

<footer>From WWF's website</footer>

</blockquote>

</div>

## <dl>

Bootstrap will style the HTML <dl> element in the following way:

**Coffee**

- black hot drink

**Milk**

- white cold drink

<div class="container">

<h1>Description Lists</h1>

<p>The dl element indicates a description list:</p>

<dl>

<dt>Coffee</dt>

<dd>- black hot drink</dd>

<dt>Milk</dt>

<dd>- white cold drink</dd>

</dl>

</div>

## <code>

Bootstrap will style the HTML <code> element in the following way:

The following HTML elements: span, section, and div defines a section in a document.

<div class="container">

<h1>Code Snippets</h1>

<p>Inline snippets of code should be embedded in the code element:</p>

<p>The following HTML elements: <code>span</code>, <code>section</code>, and <code>div</code> defines a section in a document.</p>

</div>

## <kbd>

Bootstrap will style the HTML <kbd> element in the following way:

Use ctrl + p to open the Print dialog box.

<div class="container">

<h1>Keyboard Inputs</h1>

<p>To indicate input that is typically entered via the keyboard, use the kbd element:</p>

<p>Use <kbd>ctrl + p</kbd> to open the Print dialog box.</p>

</div>

## <pre>

Bootstrap will style the HTML <pre> element in the following way:

<div class="container">

<h1>Multiple Code Lines</h1>

<p>For multiple lines of code, use the pre element:</p>

<pre>

Text in a pre element

is displayed in a fixed-width

font, and it preserves

both spaces and

line breaks.

</pre>

</div>

## Contextual Colors and Backgrounds

Bootstrap also has some contextual classes that can be used to provide "meaning through colors".

The classes for text colors are:.text-muted, .text-primary, .text-success, .text-info, .text-warning, and .text-danger:

This text is muted.

This text is important.

This text indicates success.

This text represents some information.

This text represents a warning.

This text represents danger.

<div class="container">

<h2>Contextual Colors</h2>

<p>Use the contextual classes to provide "meaning through colors":</p>

<p class="text-muted">This text is muted.</p>

<p class="text-primary">This text is important.</p>

<p class="text-success">This text indicates success.</p>

<p class="text-info">This text represents some information.</p>

<p class="text-warning">This text represents a warning.</p>

<p class="text-danger">This text represents danger.</p>

</div>

The classes for background colors are:.bg-primary, .bg-success, .bg-info, .bg-warning, and .bg-danger:

This text is important.

This text indicates success.

This text represents some information.

This text represents a warning.

This text represents danger.

<div class="container">

<h2>Contextual Backgrounds</h2>

<p>Use the contextual background classes to provide "meaning through colors":</p>

<p class="bg-primary">This text is important.</p>

<p class="bg-success">This text indicates success.</p>

<p class="bg-info">This text represents some information.</p>

<p class="bg-warning">This text represents a warning.</p>

<p class="bg-danger">This text represents danger.</p>

</div>

More Typography Classes

The Bootstrap classes below can be added to style HTML elements further:

|  |  |  |
| --- | --- | --- |
| **Class** | **Description** | **Example** |
| .lead | Makes a paragraph stand out | [Try it](https://www.w3schools.com/bootstrap/tryit.asp?filename=trybs_ref_txt_lead&stacked=h) |
| .small | Indicates smaller text (set to 85% of the size of the parent) | [Try it](https://www.w3schools.com/bootstrap/tryit.asp?filename=trybs_ref_txt_small&stacked=h) |
| .text-left | Indicates left-aligned text | [Try it](https://www.w3schools.com/bootstrap/tryit.asp?filename=trybs_ref_text-left&stacked=h) |
| .text-center | Indicates center-aligned text | [Try it](https://www.w3schools.com/bootstrap/tryit.asp?filename=trybs_ref_text-left&stacked=h) |
| .text-right | Indicates right-aligned text | [Try it](https://www.w3schools.com/bootstrap/tryit.asp?filename=trybs_ref_text-left&stacked=h) |
| .text-justify | Indicates justified text | [Try it](https://www.w3schools.com/bootstrap/tryit.asp?filename=trybs_ref_text-left&stacked=h) |
| .text-nowrap | Indicates no wrap text | [Try it](https://www.w3schools.com/bootstrap/tryit.asp?filename=trybs_ref_text-left&stacked=h) |
| .text-lowercase | Indicates lowercased text | [Try it](https://www.w3schools.com/bootstrap/tryit.asp?filename=trybs_ref_text-lowercase&stacked=h) |
| .text-uppercase | Indicates uppercased text | [Try it](https://www.w3schools.com/bootstrap/tryit.asp?filename=trybs_ref_text-lowercase&stacked=h) |
| .text-capitalize | Indicates capitalized text | [Try it](https://www.w3schools.com/bootstrap/tryit.asp?filename=trybs_ref_text-lowercase&stacked=h) |
| .initialism | Displays the text inside an <abbr> element in a slightly smaller font size | [Try it](https://www.w3schools.com/bootstrap/tryit.asp?filename=trybs_ref_txt_abbr2&stacked=h) |
| .list-unstyled | Removes the default list-style and left margin on list items (works on both <ul> and <ol>). This class only applies to immediate children list items (to remove the default list-style from any nested lists, apply this class to any nested lists as well) | [Try it](https://www.w3schools.com/bootstrap/tryit.asp?filename=trybs_ref_txt_list-unstyled&stacked=h) |
| .list-inline | Places all list items on a single line | [Try it](https://www.w3schools.com/bootstrap/tryit.asp?filename=trybs_ref_txt_list-inline&stacked=h) |
| .dl-horizontal | Lines up the terms (<dt>) and descriptions (<dd>) in <dl> elements side-by-side. Starts off like default <dl>s, but when the browser window expands, it will line up side-by-side | [Try it](https://www.w3schools.com/bootstrap/tryit.asp?filename=trybs_ref_txt_dl-horizontal&stacked=h) |
| .pre-scrollable | Makes a <pre> element scrollable | [Try it](https://www.w3schools.com/bootstrap/tryit.asp?filename=trybs_ref_txt_pre&stacked=h) |