

 免费电子书

学习

twitter-bootstrap

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#twitter-
bootstrap

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1: twitter-bootstrap

BootstrapHTMLCSSJavaScriptRWD。 CSSJavaScriptWeb。 。 。

Bootstrap

1. Bootstrap。 。
2. BootstrapWebBootstrap。
3. Bootstrap。 Bootstrap。

twitter-bootstrap。 twitter-bootstrap。

4	299911
3.3.7	2016725
3.3.6	20151124
3.3.5	2015615
3.3.4	2015316
3.3.1	20141112
3.3.0	20141029
3.2.0	2014626
3.1.0	
3.0	2013819
2.3	201327
2.2	20121029
2.1	2012-08-20
2.0	2012-02-01
1.0	2011-08-18

Examples

/

- [GitHub](#)Bootstrap
- Bootstrap
- `bower install bootstrap` `bower install bootstrap`
- `npm install bootstrap` `npm install bootstrap`
- **composer** `composer require twbs/bootstrap`

```
bootstrap/  
├── css/  
│   ├── bootstrap.css  
│   ├── bootstrap.min.css  
│   ├── bootstrap-theme.css  
│   └── bootstrap-theme.min.css  
├── js/  
│   ├── bootstrap.js  
│   └── bootstrap.min.js  
├── fonts/  
│   ├── glyphicons-halflings-regular.eot  
│   ├── glyphicons-halflings-regular.svg  
│   ├── glyphicons-halflings-regular.ttf  
│   └── glyphicons-halflings-regular.woff
```

HTMLBootstrapCSSJSjQuery3Bootstrap。 BootstrapJavaScriptjQueryHTMLbootstrap.js。

BootstrapBootstrapCDNBootstrap

```
<!-- Latest compiled and minified CSS -->  
<link rel="stylesheet"  
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css"  
integrity="sha384-BVYiisSIFeK1dGmJRAkycuHAHRg32OmUcww7on3RYdg4Va+PmSTsz/K68vbdEjh4u"  
crossorigin="anonymous">  
  
<!-- Optional theme -->  
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap-  
theme.min.css" integrity="sha384-  
rHyoNliRsVXV4nD0JutlnGaslCJuC7uwjduW9SVrLvRYooPp2bWYgmgJQIXwl/Sp" crossorigin="anonymous">  
  
<!-- Latest compiled and minified JavaScript -->  
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"  
integrity="sha384-Tc5IQib027qvyjSMfHjOMaLkfuWVxZxUPnCJA7l2mCWNIpG9mGCD8wGNlCPD7Txa"  
crossorigin="anonymous"></script>
```

Bootstrap

```
<!DOCTYPE html>  
<html lang="en">  
  <head>  
    <meta charset="utf-8">  
    <meta http-equiv="X-UA-Compatible" content="IE=edge">  
    <meta name="viewport" content="width=device-width, initial-scale=1">
```

```

    <!-- The above 3 meta tags *must* come first in the head; any other head content must come
*after* these tags -->
    <title>Bootstrap 101 Template</title>

    <!-- Bootstrap -->
    <link href="css/bootstrap.min.css" rel="stylesheet">

    <!-- HTML5 shim and Respond.js for IE8 support of HTML5 elements and media queries -->
    <!-- WARNING: Respond.js doesn't work if you view the page via file:// -->
    <!--[if lt IE 9]>
        <script src="https://oss.maxcdn.com/html5shiv/3.7.2/html5shiv.min.js"></script>
        <script src="https://oss.maxcdn.com/respond/1.4.2/respond.min.js"></script>
    <![endif]-->
</head>
<body>
    <h1>Hello, world!</h1>

    <!-- jQuery (necessary for Bootstrap's JavaScript plugins) -->
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.3/jquery.min.js"></script>
    <!-- Include all compiled plugins (below), or include individual files as needed -->
    <script src="js/bootstrap.min.js"></script>
</body>
</html>

```

```

<!DOCTYPE html>
<html lang="en">

    <head>

        <meta charset="utf-8">
        <meta http-equiv="X-UA-Compatible" content="IE=edge">
        <meta name="viewport" content="width=device-width, initial-scale=1">
        <!-- The above 3 meta tags *must* come first in the head; any other head content must
come *after* these tags -->

        <title>Bootstrap 101 Template</title>    <!-- The title of the Website -->

        <!-- Reference to Bootstrap's CSS file -->
        <!-- This is the line to reference the bootstrap's Stylesheet -->
        <link href="css/bootstrap.min.css" rel="stylesheet">

        <!-- HTML5 shim and Respond.js for IE8 support of HTML5 elements and media queries -->
        <!-- WARNING: Respond.js doesn't work if you view the page via file:// -->
        <!-- [if lt IE 9] -->
            <script src="https://oss.maxcdn.com/html5shiv/3.7.2/html5shiv.min.js"></script>
            <script src="https://oss.maxcdn.com/respond/1.4.2/respond.min.js"></script>
        <!--[endif]-->

    </head>

    <body>

        <h1>Hello, world!</h1>

        <!-- Referencing jQuery (necessary for Bootstrap JavaScript plugins(bootstrap.min.js)
to work) -->

```

```

    <script src =
"https://ajax.googleapis.com/ajax/libs/jquery/1.11.3/jquery.min.js"></script>

    <!-- Referencing Javascript Bootstrap Plugin to Facilitate Bootstrap Animations and
functionalities. -->
    <!-- (Necessary to run Bootstrap) -->
    <script src="js/bootstrap.min.js"></script>

</body>
</html>

```

Bootstrap

BootstrapHTMLCSSJavascript. [].

BootstrapWeb.

Bootstrap. HTML. ◦ media queries CSS.

Bootstrap

-
- HTMLCSS
-

BootstrapHTMLCSSJavascript. BootstrapHTMLCSSJavascript.

BootstrapBootstrap. BootstrapCSSJavascript.

bootstrap

```

<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <!-- The above 3 meta tags *must* come first in the head; any other head content must come
*after* these tags -->
    <title>Bootstrap 101 Template</title>

    <!-- Bootstrap -->
    <link href="css/bootstrap.min.css" rel="stylesheet">

    <!-- HTML5 shim and Respond.js for IE8 support of HTML5 elements and media queries -->
    <!-- WARNING: Respond.js doesn't work if you view the page via file:// -->
    <!--[if lt IE 9]>
      <script src="https://oss.maxcdn.com/html5shiv/3.7.2/html5shiv.min.js"></script>
      <script src="https://oss.maxcdn.com/respond/1.4.2/respond.min.js"></script>
    <![endif]-->
  </head>
  <body>
    <!-- Fixed navbar -->

```

```

<nav class="navbar navbar-default navbar-fixed-top">
  <div class="container">
    <div class="navbar-header">
      <button type="button" class="navbar-toggle collapsed" data-toggle="collapse"
data-target="#navbar" aria-expanded="false" aria-controls="navbar">
        <span class="sr-only">Toggle navigation</span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
      </button>
      <a class="navbar-brand" href="#">Project name</a>
    </div>
    <div id="navbar" class="navbar-collapse collapse">
      <ul class="nav navbar-nav">
        <li class="active"><a href="#">Home</a></li>
        <li><a href="#about">About</a></li>
        <li><a href="#contact">Contact</a></li>
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown" role="button"
aria-haspopup="true" aria-expanded="false">Dropdown <span class="caret"></span></a>
          <ul class="dropdown-menu">
            <li><a href="#">Action</a></li>
            <li><a href="#">Another action</a></li>
            <li><a href="#">Something else here</a></li>
            <li role="separator" class="divider"></li>
            <li class="dropdown-header">Nav header</li>
            <li><a href="#">Separated link</a></li>
            <li><a href="#">One more separated link</a></li>
          </ul>
        </li>
      </ul>
      <ul class="nav navbar-nav navbar-right">
        <li><a href="../navbar/">Default</a></li>
        <li><a href="../navbar-static-top/">Static top</a></li>
        <li class="active"><a href="#">Fixed top <span class="sr-
only">(current)</span></a></li>
      </ul>
    </div><!--/.nav-collapse -->
  </div>
</nav>

<div class="container">

  <div class="jumbotron">
    <h1>Navbar example</h1>
    <p>This example is a quick exercise to illustrate how the default, static and
fixed to top navbar work. It includes the responsive CSS and HTML, so it also adapts to your
viewport and device.</p>
    <p>To see the difference between static and fixed top navbars, just scroll.</p>
    <p>
      <a class="btn btn-lg btn-primary" href="../../components/#navbar"
role="button">View navbar docs &raquo;</a>
    </p>
  </div>

</div> <!-- /container -->

<!-- jQuery (necessary for Bootstrap's JavaScript plugins) -->
<script src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.3/jquery.min.js"></script>
<!-- Include all compiled plugins (below), or include individual files as needed -->

```

```
<script src="js/bootstrap.min.js"></script>  
</body>  
</html>
```

twitter-bootstrap <https://riptutorial.com/zh-CN/twitter-bootstrap/topic/818/twitter-bootstrap>

2: Bootstrap Affix

Examples

Navbar

HTML

```
<nav class="navbar navbar-default" data-offset-top="120" data-spy="affix" >
  ...
</nav>
```

CSS

```
<style>
.navbar {
  background-color: red;
}
.navbar.affix {
  background-color: green;
}
</style>
```

2

```
<div class="container" id="con">
  <div class="row">
    <div class="span12">
      <div class="well">
        <h1> Header </h1>
      </div>
    </div>
  </div>
</div>
<div class="container" data-spy="affix" data-offset-top="400" id="nav">
  <div class="navbar">
    <div class="navbar-inner">
      <div class="container">
        <div class="span12">
          <a class="brand" href="#">Home</a>
          <ul class="nav">
            <li class="active"><a href="#">Home</a></li>
            <li><a href="#">Link</a></li>
            <li><a href="#">Link</a></li>
          </ul>
        </div>
      </div>
    </div>
  </div>
</div>
<div class="container">
  <div class="span3">
```



```
<p style="height:1000px;padding:10px;">

    Long scrolling text here... Ovi lispmd idr. Blah goo bar foor foo. Ovi lispmd
idr. Blah goo bar foor foo. Ovi lispmd idr. Blah goo bar foor foo. Ovi lispmd idr. Blah goo
bar foor foo. Ovi lispmd idr. Blah goo bar foor foo. Ovi lispmd idr. Blah goo bar foor foo.
Ovi lispmd idr. Blah goo bar foor foo. Ovi lispmd idr. Blah goo bar foor foo. Ovi lispmd idr.
Blah goo bar foor foo. Ovi lispmd idr. Blah goo bar foor foo.

    </p>
</div>
</div>

<style>

#con .well {
    height:400px;
}

#nav.affix {
    position: fixed;
    top: 0;
    width: 100%
}
</style>

<script>
    $('#nav').affix();
</script>
```

Bootstrap Affix <https://riptutorial.com/zh-CN/twitter-bootstrap/topic/6639/bootstrap-affix>

3: Bootstrap Dropdown

Javascript	<code>\$('.dropdown-toggle').dropdown();</code>
	<code>\$('.dropdown-toggle').dropdown('toggle')</code>
show.bs.dropdown	show◦
shown.bs.dropdown	CSS◦
hide.bs.dropdown	hide◦
hidden.bs.dropdown	CSS◦
	<code>\$(element).on('show.bs.dropdown', function () { // do something... })</code>

Javascript `$('.dropdown-toggle').dropdown()` Dropdown data-api ie `data-toggle="dropdown"` ◦

Examples

`.dropdown`◦

`.dropdown-menu`◦

`.dropdown-toggle data-toggle="dropdown"`◦

```
<div class="dropdown">
  <button class="btn btn-primary dropdown-toggle" type="button" data-
toggle="dropdown">Dropdown Example
  <span class="caret"></span></button>
  <ul class="dropdown-menu">
    <li><a href="#">Option One</a></li>
    <li><a href="#">Option two</a></li>
    <li><a href="#">More Options</a></li>
  </ul>
</div>
```

Bootstrap Dropdown <https://riptutorial.com/zh-CN/twitter-bootstrap/topic/6361/bootstrap-dropdown>

4: Bootstrap Navbar

Examples

Bootstrap Navbar

Bootstrap3 Navbar

```
<nav class="navbar navbar-default" role="navigation">
<div class="container-fluid">
  <!-- Brand and toggle get grouped for better mobile display -->
  <div class="navbar-header">
    <button type="button" class="navbar-toggle" data-toggle="collapse" data-
target=".navbar-ex1-collapse">
      <span class="sr-only">Toggle navigation</span>
      <span class="icon-bar"></span>
      <span class="icon-bar"></span>
      <span class="icon-bar"></span>
    </button>
    <a class="navbar-brand" href="#">Title</a>
  </div>

  <!-- Collect the nav links, forms, and other content for toggling -->
  <div class="collapse navbar-collapse navbar-ex1-collapse">
    <ul class="nav navbar-nav">
      <li class="active"><a href="#">Link</a></li>
      <li><a href="#">Link</a></li>
    </ul>
    <form class="navbar-form navbar-left" role="search">
      <div class="form-group">
        <input type="text" class="form-control" placeholder="Search">
      </div>
      <button type="submit" class="btn btn-default">Submit</button>
    </form>
    <ul class="nav navbar-nav navbar-right">
      <li><a href="#">Link</a></li>
      <li class="dropdown">
        <a href="#" class="dropdown-toggle" data-toggle="dropdown">Dropdown <b
class="caret"></b></a>
        <ul class="dropdown-menu">
          <li><a href="#">Action</a></li>
          <li><a href="#">Another action</a></li>
          <li><a href="#">Something else here</a></li>
          <li><a href="#">Separated link</a></li>
        </ul>
      </li>
    </ul>
  </div><!-- /.navbar-collapse -->
</div>
```

Bootstrap

```
<nav class="navbar navbar-default">
  <div class="container-fluid">
```

```
<div class="navbar-header">
  <a class="navbar-brand" href="#">
    
  </a>
</div>
</div>
</nav>
```

Bootstrap Navbar <https://riptutorial.com/zh-CN/twitter-bootstrap/topic/6233/bootstrap-navbar>

5: Bootstrap

Examples

Bootstrap

Bootstrap [Bootswatch](#) *bootstrap.min.css* ◦ ◦

site.css

bootstrap.min.css

.css

site.css

◦ *.css site.css site.css* ◦

```
<link href="../../../Content/bootstrap.min.css" rel="stylesheet">
<link href="../../../Content/site.css" rel="stylesheet">
```

Bootstrap *site.css* ◦

Bootstrap <https://riptutorial.com/zh-CN/twitter-bootstrap/topic/6381/bootstrap>

6: Bootstrap

.container◦

.container-fluid◦

Examples

.containerbootstrapxssmmdl;

.container-fluid◦

```
@media (min-width: 568px) {  
  .container {  
    width: 550px;  
  }  
}  
@media (min-width: 992px) {  
  .container {  
    width: 970px;  
  }  
}  
@media (min-width: 1200px) {  
  .container {  
    width: 1170px;  
  }  
}
```

div◦

.container-fluid◦

Bootstrap <https://riptutorial.com/zh-CN/twitter-bootstrap/topic/10908/bootstrap>

7: Bootstrap

Examples

`.badge`

```
<a href="#">News <span class="badge">5</span></a><br>
<a href="#">Comments <span class="badge">10</span></a><br>
<a href="#">Updates <span class="badge">2</span></a>
```

```
<button type="button" class="btn btn-primary">Primary <span class="badge">7</span></button>
```

`.label.label-default .label-primary .label-success .label-info .label-warning.label-danger`

```
<h1>Example <span class="label label-default">New</span></h1>
<h2>Example <span class="label label-default">New</span></h2>
<h3>Example <span class="label label-default">New</span></h3>
<h4>Example <span class="label label-default">New</span></h4>
<h5>Example <span class="label label-default">New</span></h5>
<h6>Example <span class="label label-default">New</span></h6>
```

Bootstrap <https://riptutorial.com/zh-CN/twitter-bootstrap/topic/7867/bootstrap>

8: Bootstrap

- ◦
- onSubmit() ◦ ◦ [MinLengthAttribute(0)] ◦

Examples

ASP.NET MVC

<appSettings> Web.configViews

```
<add key="ClientValidationEnabled" value="true"/>
<add key="UnobtrusiveJavaScriptEnabled" value="true"/>
```

jqueryvalBundleConfig.cs

```
bundles.Add(new ScriptBundle("~/bundles/jqueryval").Include(
    "~/Scripts/jqueryval/jquery.validate*"));
```

_Layout.cshml

```
<!-- Reference to the jqueryval bundle -->
@Scripts.Render("~/bundles/jqueryval")

<!-- jQuery to apply bootstrap validation classes and glyphicons to inputs -->
<script type="text/javascript">
    $.validator.defaults({
        highlight: function (element) {
            $(element).closest('.form-group').removeClass('has-success has-
feedback').addClass('has-error has-feedback'); // red highlighting
            $(element).closest('.form-group').find('.form-control-
feedback').removeClass('glyphicon-ok').addClass('glyphicon-remove'); // red cross glyphicon
        },
        unhighlight: function (element) {
            $(element).closest('.form-group').removeClass('has-error has-
feedback').addClass('has-success has-feedback'); // green highlighting
            $(element).closest('.form-group').find('.form-control-
feedback').removeClass('glyphicon-remove').addClass('glyphicon-ok'); // green tick glyphicon
        }
    });
</script>
```

```
using System.ComponentModel.DataAnnotations;

[Required(ErrorMessage = "This field is required.")
```

```
<!-- Validation messages -->
<div class="text-danger">@Html.ValidationMessageFor(m => m.SomeField)</div>

<!-- Bootstrap feedback span: -->
```



```
<span class="glyphicon form-control-feedback"></span>
```

```
if (!ModelState.IsValid)
{
    return View(model);
}
else
{
    // continue with action
}
```

```
[Required(ErrorMessage = "This field is required.")
[StringLength(maximumLength: 10, ErrorMessage = "This field must be 10 characters or less.")]
public string SomeRequiredField { get; set; }
```

```
<div class="form-group has-feedback">
  <div class="col-md-4">
    @Html.LabelFor(m => m.SomeRequiredField, new { @class = "control-label" })
  </div>
  <div class="col-md-8">
    @Html.TextBoxFor(m => m.SomeRequiredField, new { @class = "form-control" })
    <div class="text-danger">@Html.ValidationMessageFor(m => m.SomeRequiredField)</div>
    <span class="glyphicon form-control-feedback"></span>
  </div>
</div>
```

jQuery

```
$('#input').on('blur', function () {
    $(this).valid();
});
```

Bootstrap <https://riptutorial.com/zh-CN/twitter-bootstrap/topic/6388/bootstrap>

9: Glyphicons

Bootstrap glyphicons

Examples

Glyphicons

Twitter Bootstrap Glyphicons HTML

◦

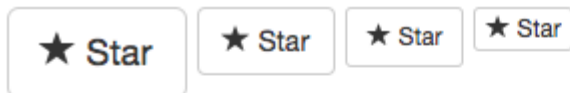
``

HTML

```
<button type="button" class="btn btn-default btn-lg">
  Star
</button>
```

glyphicon `<button>`

```
<button type="button" class="btn btn-default btn-lg">
  <span class="glyphicon glyphicon-star" aria-hidden="true"></span>Star
</button>
```



```
<button type="button" class="btn btn-default" aria-label="Left Align">
  <span class="glyphicon glyphicon-align-left" aria-hidden="true"></span>
</button>

<button type="button" class="btn btn-default btn-lg">
  <span class="glyphicon glyphicon-star" aria-hidden="true"></span> Star
</button>
```

Glyphicons <https://riptutorial.com/zh-CN/twitter-bootstrap/topic/6098/glyphicons>

10: Twitter Bootstrap

bootstrap.css custom.css

Examples

CSS

twitter bootstrap bootstrap Twitter bootstrapcss

CSS bootstrap.min.css bootstrap/dist/css

bootstrap2

1. custom.css index.html

```
<html>
<head>
  <title>Customize Bootstrap</title>

  <link rel="stylesheet" type="text/css" href="path/to/bootstrap.min.css">
  <!-- This must be declared after the bootstrap.min.css -->
  <link rel="stylesheet" type="text/css" href="path/to/your/custom.css">
</head>
<body>
  <!-- Do something -->
</body>
</html>
```

2. bootstrap <button class="btn">Sample</button> btn custom.css

```
.btn{
  background-color:red;
}
```

o

Sample

Sample

bootstrap css

Twitter Bootstrap <https://riptutorial.com/zh-CN/twitter-bootstrap/topic/6030/twitter-bootstrap>

11:

<http://getbootstrap.com/javascript/#dropdowns> BootstrapHTML。

Examples

HTML

BootstrapBootstrapHTML。

HTML

```
<div class="dropdown">
  <button id="dLabel" type="button" data-toggle="dropdown" aria-haspopup="true" aria-
expanded="false">
    Dropdown trigger
    <span class="caret"></span>
  </button>
  <ul class="dropdown-menu" aria-labelledby="dLabel">
    ...
  </ul>
</div>
```

.dropdown-menu ul li elemented。

<https://riptutorial.com/zh-CN/twitter-bootstrap/topic/6033/>

12:

◦ ◦

Examples

```
<nav aria-label="Page navigation example">
  <ul class="pagination">
    <li class="page-item"><a class="page-link" href="#">Previous</a></li>
    <li class="page-item"><a class="page-link" href="#">1</a></li>
    <li class="page-item"><a class="page-link" href="#">2</a></li>
    <li class="page-item"><a class="page-link" href="#">3</a></li>
    <li class="page-item"><a class="page-link" href="#">Next</a></li>
  </ul>
</nav>
```



<https://riptutorial.com/zh-CN/twitter-bootstrap/topic/10605/>

13:

Examples

CSSSASS

.row-height

.col-height .row-height.col-height.row-sm-height.col-sm-height

CSS

```
.row-height {
  display: table;
  table-layout: fixed;
  height: 100%;
  width: calc(100% + 30px);
}
.col-height {
  display: table-cell;
  float: none;
  height: 100%;
}
.col-top {
  vertical-align: top;
}
.col-middle {
  vertical-align: middle;
}
.col-bottom {
  vertical-align: bottom;
}

@media (min-width: 480px) {
  .row-xs-height {
    display: table;
    table-layout: fixed;
    height: 100%;
    width: 100%;
  }
  .col-xs-height {
    display: table-cell;
    float: none;
    height: 100%;
  }
  .col-xs-top {
    vertical-align: top;
  }
  .col-xs-middle {
    vertical-align: middle;
  }
  .col-xs-bottom {
    vertical-align: bottom;
  }
}

@media (min-width: 768px) {
  .row-sm-height {
```

```

    display: table;
    table-layout: fixed;
    height: 100%;
    width: 100%;
}
.col-sm-height {
    display: table-cell;
    float: none;
    height: 100%;
}
.col-sm-top {
    vertical-align: top;
}
.col-sm-middle {
    vertical-align: middle;
}
.col-sm-bottom {
    vertical-align: bottom;
}
}

@media (min-width: 992px) {
    .row-md-height {
        display: table;
        table-layout: fixed;
        height: 100%;
        width: calc(100% + 30px);
    }
    .col-md-height {
        display: table-cell;
        float: none;
        height: 100%;
    }
    .col-md-top {
        vertical-align: top;
    }
    .col-md-middle {
        vertical-align: middle;
    }
    .col-md-bottom {
        vertical-align: bottom;
    }
    .row-md-height .col-md-3 {
        width: 25%;
        min-width: 25%;
        max-width: 25%;
    }
}

@media (min-width: 1200px) {
    .row-lg-height {
        display: table;
        table-layout: fixed;
        height: 100%;
        width: 100%;
    }
    .col-lg-height {
        display: table-cell;
        float: none;
        height: 100%;
    }
}

```

```

.col-lg-top {
  vertical-align: top;
}
.col-lg-middle {
  vertical-align: middle;
}
.col-lg-bottom {
  vertical-align: bottom;
}
}

```

SASSbootstrap_variables.scss

```

@import "../bootstrap/variables.scss";
$sizes: xs sm md lg;
$screens: $screen-xs-min $screen-sm-min $screen-md-min $screen-lg-min;

//general
.row-height {
  display: table;
  table-layout: fixed;
  height: 100%;
  width: calc(100% + $grid-gutter-width);
}
.col-height {
  display: table-cell;
  float: none;
  height: 100%;
}
.col-top {
  vertical-align: top;
}
.col-middle {
  vertical-align: middle;
}
.col-bottom {
  vertical-align: bottom;
}

//different sizes
@for $i from 1 through length($sizes) {
  $size: nth($sizes, $i);
  $screen: nth($screens, $i);

  @media (min-width: #{$screen}) {
    .row-#{$size}-height {
      display: table;
      table-layout: fixed;
      height: 100%;
      width: 100%;
    }
    .col-#{$size}-height {
      display: table-cell;
      float: none;
      height: 100%;
    }
    .col-#{$size}-top {
      vertical-align: top;
    }
    .col-#{$size}-middle {

```



```
        vertical-align: middle;
    }
    .col-#{$size}-bottom {
        vertical-align: bottom;
    }
}
}
```

<https://riptutorial.com/zh-CN/twitter-bootstrap/topic/6469/>

14:

bootstrap [Contextual](#).

Examples

```
<ul class="list-group">
  <li class="list-group-item">Cras justo odio</li>
  <li class="list-group-item">Dapibus ac facilisis in</li>
  <li class="list-group-item">Morbi leo risus</li>
  <li class="list-group-item">Porta ac consectetur ac</li>
  <li class="list-group-item">Vestibulum at eros</li>
</ul>
```

```
<ul class="list-group">
  <li class="list-group-item">
    <span class="badge">14</span>
    Cras justo odio
  </li>
</ul>
```

```
<div class="list-group">
  <a href="#" class="list-group-item active">
    Cras justo odio
  </a>
  <a href="#" class="list-group-item">Dapibus ac facilisis in</a>
  <a href="#" class="list-group-item">Morbi leo risus</a>
  <a href="#" class="list-group-item">Porta ac consectetur ac</a>
  <a href="#" class="list-group-item">Vestibulum at eros</a>
</div>
```

```
<div class="list-group">
  <button type="button" class="list-group-item">Cras justo odio</button>
  <button type="button" class="list-group-item">Dapibus ac facilisis in</button>
  <button type="button" class="list-group-item">Morbi leo risus</button>
  <button type="button" class="list-group-item">Porta ac consectetur ac</button>
  <button type="button" class="list-group-item">Vestibulum at eros</button>
</div>
```

```
<div class="list-group">
  <a href="#" class="list-group-item disabled">
    Cras justo odio
  </a>
  <a href="#" class="list-group-item">Dapibus ac facilisis in</a>
  <a href="#" class="list-group-item">Morbi leo risus</a>
  <a href="#" class="list-group-item">Porta ac consectetur ac</a>
  <a href="#" class="list-group-item">Vestibulum at eros</a>
</div>
```

```
<ul class="list-group">
  <li class="list-group-item list-group-item-success">Dapibus ac facilisis in</li>
```

```
<li class="list-group-item list-group-item-info">Cras sit amet nibh libero</li>
<li class="list-group-item list-group-item-warning">Porta ac consectetur ac</li>
<li class="list-group-item list-group-item-danger">Vestibulum at eros</li>
</ul>
<div class="list-group">
  <a href="#" class="list-group-item list-group-item-success">Dapibus ac facilisis in</a>
  <a href="#" class="list-group-item list-group-item-info">Cras sit amet nibh libero</a>
  <a href="#" class="list-group-item list-group-item-warning">Porta ac consectetur ac</a>
  <a href="#" class="list-group-item list-group-item-danger">Vestibulum at eros</a>
</div>
```

```
<div class="list-group">
  <a href="#" class="list-group-item active">
    <h4 class="list-group-item-heading">List group item heading</h4>
    <p class="list-group-item-text">...</p>
  </a>
</div>
```

<https://riptutorial.com/zh-CN/twitter-bootstrap/topic/6347/>

15: Bootstrap

Examples

HTML

Bootstrap

```
.visible-print-block  
.visible-print-inline  
.visible-print-inline-block
```

```
.hidden-print
```

Bootstrap <https://riptutorial.com/zh-CN/twitter-bootstrap/topic/6707/bootstrap->

16: Clearfix

.row **12** AKA clearfixes Bootstrap

Bootstrap

Bootstrap “Bootstrap” “WeDidItForYou”. Bootstrap

◦

Examples

CSS ◦ head ◦ border-radius background-color ◦

```
<head>
  <title></title>
  <link rel="stylesheet"
href="//maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
  <style>
    /* colorize all col- */
    [class^="col-"] {
      min-height: 30px;
      border-radius: 10px;
      background-color: lightblue;
    }
    /* a tall cell */
    .cell-tall {
      height: 100px;
      background-color: orange;
    }
    /* a medium-height cell */
    .cell-med {
      height: 50px;
      background-color: lightgreen;
    }
    /* padding top-bottom for some row examples */
    .row.padded {
      padding: 1rem 0 1rem 0;
    }
  </style>
</head>
```

col-xs-6 col-md-3

```
<div class="container-fluid">
  <div class="row">
    <div class="col-xs-6 col-md-3">1</div>
    <div class="col-xs-6 col-md-3">2</div>
    <div class="col-xs-6 col-md-3">3</div>
    <div class="col-xs-6 col-md-3">4</div>
    <div class="col-xs-6 col-md-3">5</div>
    <div class="col-xs-6 col-md-3">6</div>
    <div class="col-xs-6 col-md-3">7</div>
    <div class="col-xs-6 col-md-3">8</div>
```

```

    <div class="col-xs-6 col-md-3">9</div>
    <div class="col-xs-6 col-md-3">10</div>
    <div class="col-xs-6 col-md-3">11</div>
  </div>
</div>

```

col-xs-6 col-md-3



col-xs-6 col-md-3



◦ col-md-3 + col-xs-6 ◦

Bootstrap.....

“ ”。 。 。

dashboard◦

```

<div class="container-fluid">
  <div class="row">
    <div class="col-xs-6 col-md-3">1</div>
    <div class="col-xs-6 col-md-3 cell-tall">2</div>
    <div class="col-xs-6 col-md-3 cell-tall">3</div>
    <div class="col-xs-6 col-md-3">4</div>
    <div class="col-xs-6 col-md-3">5</div>
    <div class="col-xs-6 col-md-3 cell-med">6</div>
    <div class="col-xs-6 col-md-3">7</div>
    <div class="col-xs-6 col-md-3">8</div>
    <div class="col-xs-6 col-md-3 cell-med">9</div>
    <div class="col-xs-6 col-md-3 cell-med">10</div>
    <div class="col-xs-6 col-md-3">11</div>
  </div>
</div>

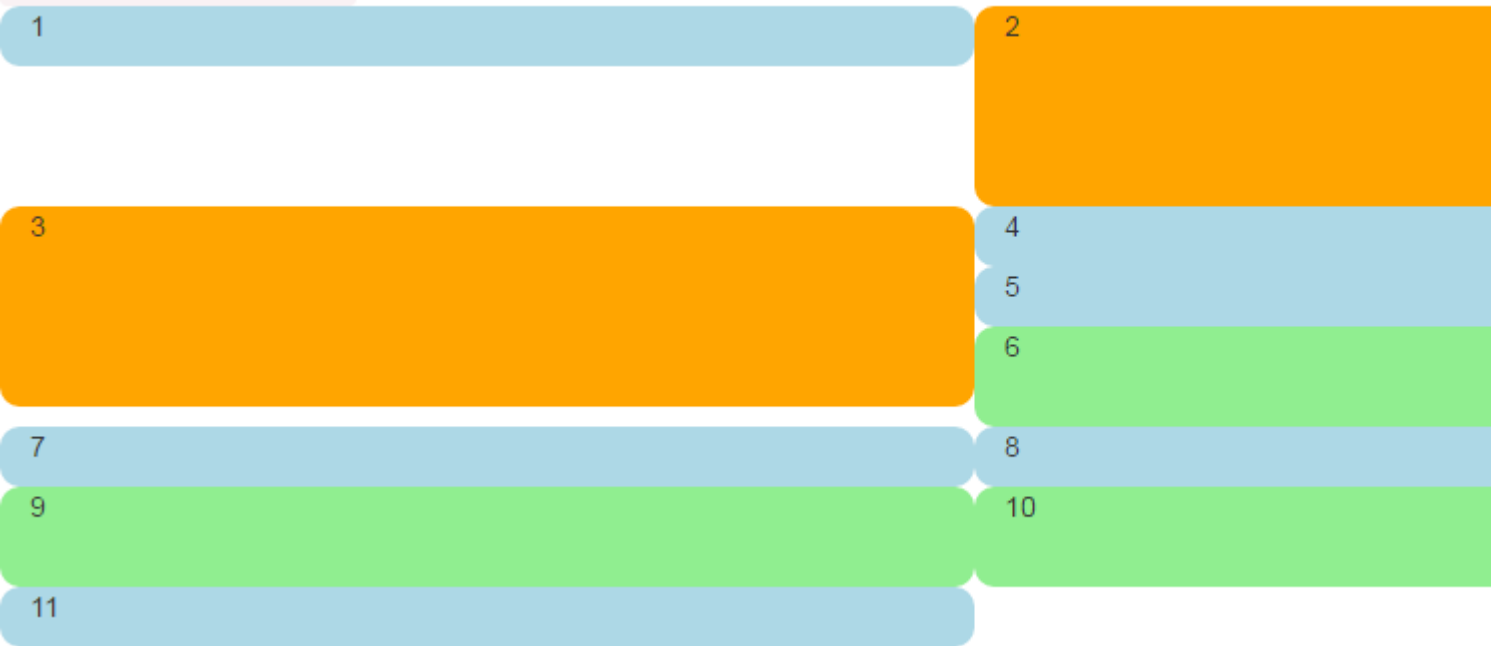
```

cell-tall cell-med CSS◦ 。

col-xs-6 col-md-3



col-xs-6 col-md-3



。 。 567。 456

Clearfix to Rescue

row

```
<div class="container-fluid">  
  <div class="row">  
    <!-- cols -->  
  </div>  
  <div class="row">  
    <!-- cols -->  
  </div>  
</div>
```

Bootstrappers。 “row4coldiv”。

Bootstrap 34 ◦ “colrow”◦

clearfix CSSrowdiv◦ colrow-

“12”◦ ◦

```
<div class="container-fluid">
  <div class="row">
    <div class="col-xs-6 col-md-3">1</div>
    <div class="col-xs-6 col-md-3 cell-tall">2</div>
    <!--
      We have rendered TWO cells.
      On small and extra small devices, the viewport will render TWO cells
      (12 / 6 = 2), so we need a clearfix every TWO cells. We also need to
      say "don't show this clearfix when the viewport will render FOUR cells",
      which it will do at medium size and up (12 / 3 = 4). We do that by adding
      hidden-md and hidden-lg to our clearfix div, in effect instructing the
      browser to not show it at all on a wider screen.
    -->
    <div class="clearfix hidden-md hidden-lg"></div>
    <!-->
    <div class="col-xs-6 col-md-3 cell-tall">3</div>
    <div class="col-xs-6 col-md-3">4</div>
    <!--
      We have now rendered FOUR cells.
      We are never going to have more than FOUR cells side by side. So every
      FOURTH cell, we place a clearfix that will ALWAYS show. We do this by
      just leaving off any of the hidden-* classes.
    -->
    <div class="clearfix"></div>
    <!-->
    <div class="col-xs-6 col-md-3">5</div>
    <div class="col-xs-6 col-md-3 cell-med">6</div>
    <!--
      We have now rendered SIX cells.
      After the sixth cell, we are at a multiple of TWO, but not FOUR so we
      repeat the clearfix that we used after cell TWO.
    -->
    <div class="clearfix hidden-md hidden-lg"></div>
    <!-->
    <div class="col-xs-6 col-md-3">7</div>
    <div class="col-xs-6 col-md-3">8</div>
    <!--
      Now we have rendered EIGHT cells, which is a multiple of TWO AND FOUR,
      so we put in a clearfix that's always visible.
    -->
    <div class="clearfix"></div>
    <!-->
    <div class="col-xs-6 col-md-3 cell-med">9</div>
    <div class="col-xs-6 col-md-3 cell-med">10</div>
    <!--
      After the 10th cell, once again a multiple of TWO but not FOUR...
    -->
    <div class="clearfix hidden-md hidden-lg"></div>
    <!-->
    <div class="col-xs-6 col-md-3">11</div>
  </div>
</div>
```

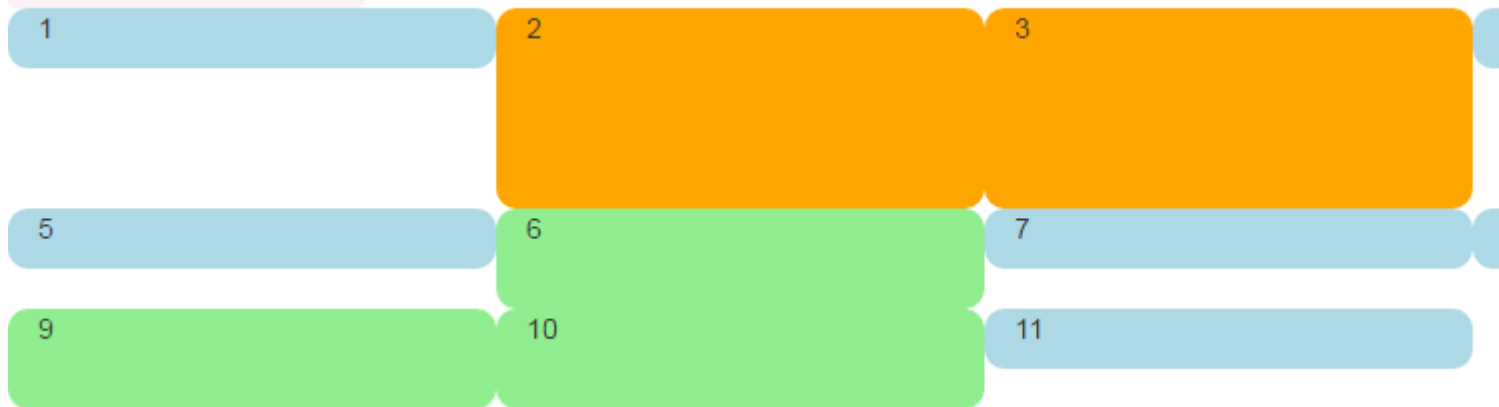

clearfix CSS div col div left

hidden-sm hidden-md **clearfix div** col div clearfix div

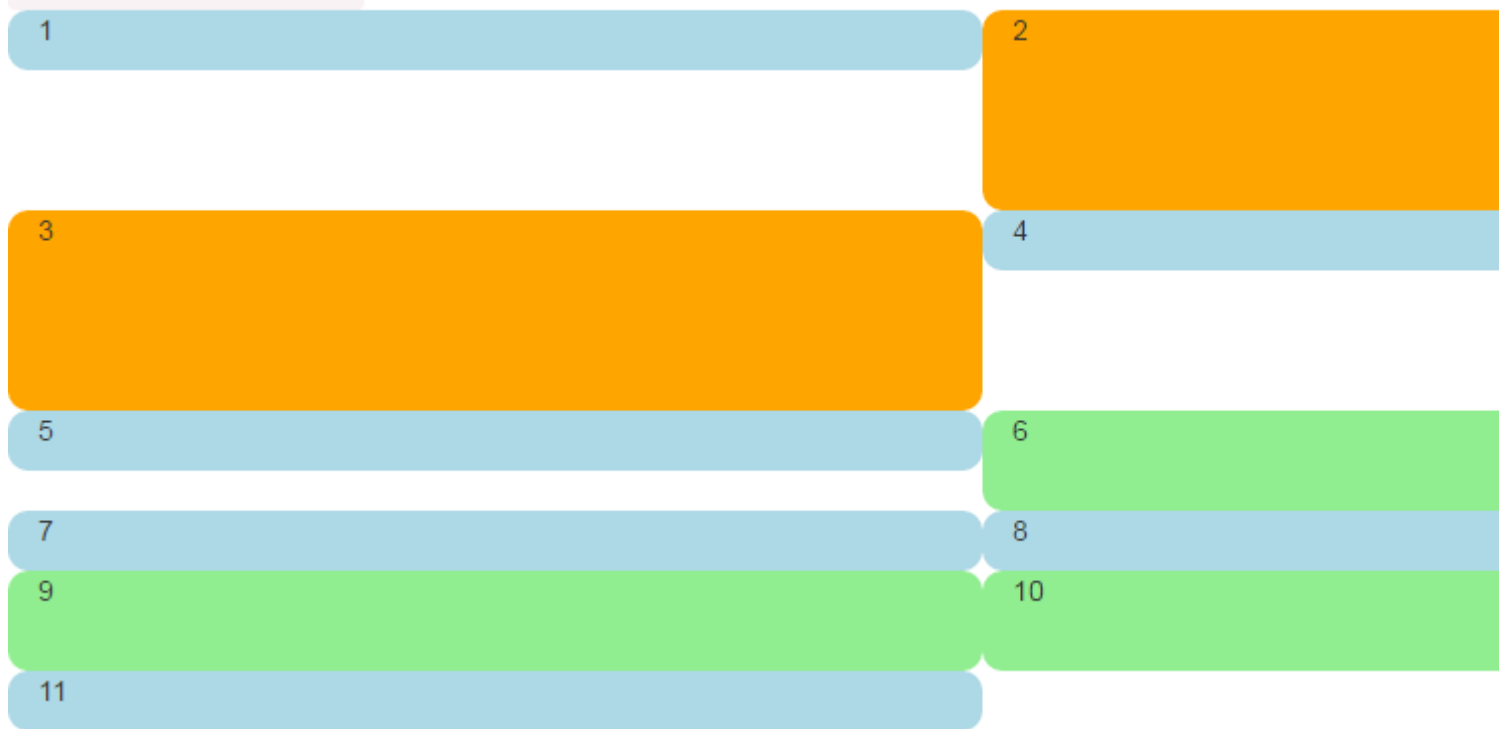
Bootstrap 3 hidden-*visible-* hidden-*hidden-*

Bootstrap 4 hidden-*-up hidden-*-down visible-*

col-xs-6 col-md-3



col-xs-6 col-md-3



◦ ◦

div ◦ ◦ CSS

```
<head>
  <title></title>
  <link rel="stylesheet"
```

```

href="//maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
  <style>
    body {
      padding-top: 15px;
    }
    .panel-tall .panel-body {
      height: 175px;
    }
    .panel-med .panel-body {
      height: 100px;
    }
    .panel-short .panel-body {
      height: 70px;
    }
  </style>
</head>

```

“”

```

<div class="container-fluid">
  <div class="row">
    <div class="col-xs-6 col-md-3">
      <div class="panel panel-default panel-med">
        <div class="panel-heading">
          Heading 1
        </div>
        <div class="panel-body">
          Body 1
        </div>
        <div class="panel-footer">
          Footer 1
        </div>
      </div>
    </div>
    <div class="col-xs-6 col-md-3 cell-tall">
      <div class="panel panel-danger panel-tall">
        <div class="panel-heading">
          Heading 2
        </div>
        <div class="panel-body">
          Body 2. Look out, this needs some attention!
        </div>
        <div class="panel-footer">
          Footer 2
        </div>
      </div>
    </div>
  </div>
  <!--
    On small and extra small devices, the viewport will render TWO cells
    (12 / 6 = 2), so we need a clearfix every TWO cells. We also need to
    say "don't show this clearfix when the viewport will render FOUR cells",
    which it will do at medium size and up (12 / 3 = 4). We do that by adding
    hidden-md and hidden-lg to our clearfix div, in effect instructing the
    browser to not show it at all on a wider screen.
  -->
  <div class="clearfix hidden-md hidden-lg"></div>
  <!------>
  <div class="col-xs-6 col-md-3 cell-tall">
    <div class="panel panel-success panel-short">
      <div class="panel-heading">

```

```

        Heading 3
    </div>
    <div class="panel-body">
        Body 3. The file has successfully uploaded.
    </div>
    <div class="panel-footer">
        Footer 3
    </div>
</div>
</div>
<div class="col-xs-6 col-md-3">
    <div class="panel panel-default panel-tall">
        <div class="panel-heading">
            Heading 4 Chart
        </div>
        <div class="panel-body">
            Body 4. Is this a cool graph or what?
        </div>
        <div class="panel-footer">
            Footer 4
        </div>
    </div>
</div>
</div>
<!--
    We are never going to have more than FOUR cells. So every FOURTH cell,
    we place a clearfix that will ALWAYS show. We do this by just leaving off
    any of the hidden-* classes.
-->
<div class="clearfix"></div>
<!------>
<div class="col-xs-6 col-md-3">
    <div class="panel panel-warning panel-short">
        <div class="panel-heading">
            Heading 5
        </div>
        <div class="panel-body">
            Body 5.
        </div>
        <div class="panel-footer">
            Footer 5
        </div>
    </div>
</div>
</div>
<div class="col-xs-6 col-md-3 cell-med">
    <div class="panel panel-warning panel-tall">
        <div class="panel-heading">
            Heading 6
        </div>
        <div class="panel-body">
            Body 6.
        </div>
    </div>
</div>
</div>
<!--
    After the sixth cell, we are at a multiple of TWO, but not FOUR so we
    repeat the clearfix that we used after cell TWO.
-->
<div class="clearfix hidden-md hidden-lg"></div>
<!------>
<div class="col-xs-6 col-md-3">
    <div class="panel panel-info panel-tall">

```

```

        <div class="panel-heading">
            Heading 7
        </div>
        <div class="panel-body">
            Body 7.
        </div>
        <div class="panel-footer">
            Footer 7
        </div>
    </div>
</div>
<div class="col-xs-6 col-md-3">
    <div class="panel panel-info panel-med">
        <div class="panel-heading">
            Heading 8
        </div>
        <div class="panel-body">
            Body 8.
        </div>
        <div class="panel-footer">
            Footer 8
        </div>
    </div>
</div>
</div>
<!--
    Now we have rendered EIGHT cells, which is a multiple of TWO AND FOUR,
    so we put in a clearfix that's always visible.
-->
<div class="clearfix"></div>
<!-->
<div class="col-xs-6 col-md-3 cell-med">
    <div class="panel panel-info panel-short">
        <div class="panel-heading">
            Heading 9
        </div>
        <div class="panel-body">
            Body 9.
        </div>
        <div class="panel-footer">
            Footer 9
        </div>
    </div>
</div>
<div class="col-xs-6 col-md-3 cell-med">
    <div class="panel panel-info panel-tall">
        <div class="panel-heading">
            Heading 10
        </div>
        <div class="panel-body">
            Body 10.
        </div>
        <div class="panel-footer">
            Footer 10
        </div>
    </div>
</div>
</div>
<!--
    After the 10th cell, once again a multiple of TWO but not FOUR...
-->
<div class="clearfix hidden-md hidden-lg"></div>
<!-->

```

```
<div class="col-xs-6 col-md-3">
  <div class="panel panel-info panel-tall">
    <div class="panel-heading">
      Heading 1
    </div>
    <div class="panel-body">
      Body 11.
    </div>
    <div class="panel-footer">
      Footer 11
    </div>
  </div>
</div>
</div>
</div>
```

Heading 1
Body 1
Footer 1

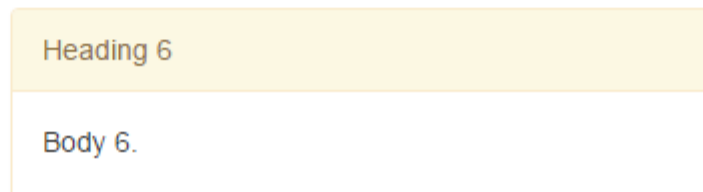
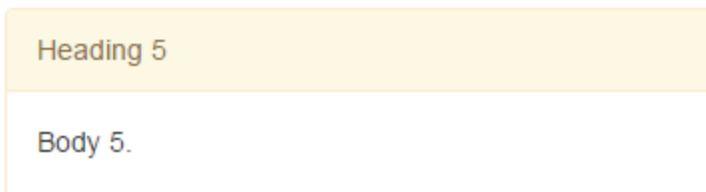
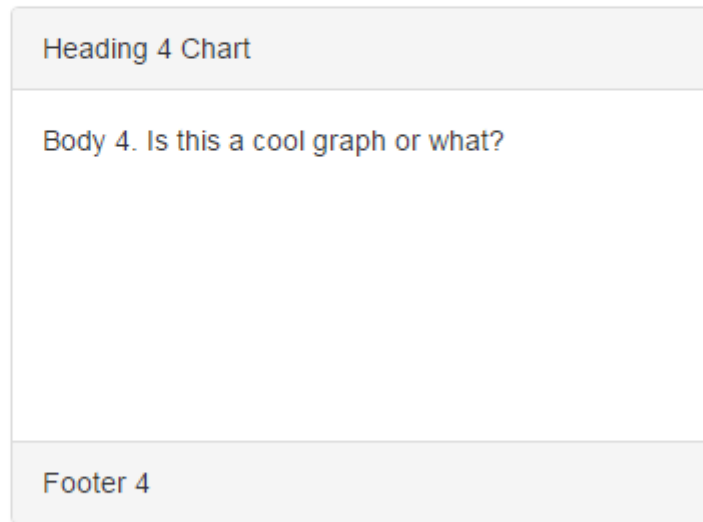
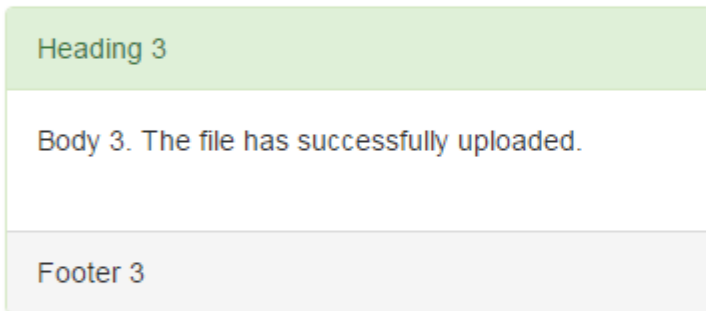
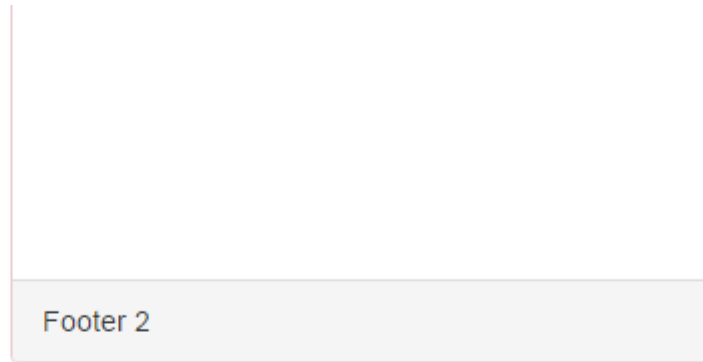
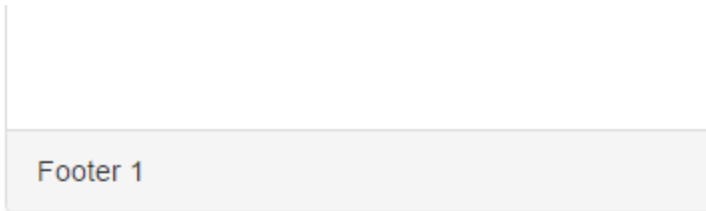
Heading 2
Body 2. Look out, this needs some attention!
Footer 2

Heading 3
Body 3. The file has successfully uploaded.
Footer 3

Heading 5
Body 5.
Footer 5

Heading 6
Body 6.

Heading 7
Body 7.
Footer 7



Bootstrap 3 `panel` Bootstrap 4 `card` `cardpanel`

2,4,6Clearfixes

o

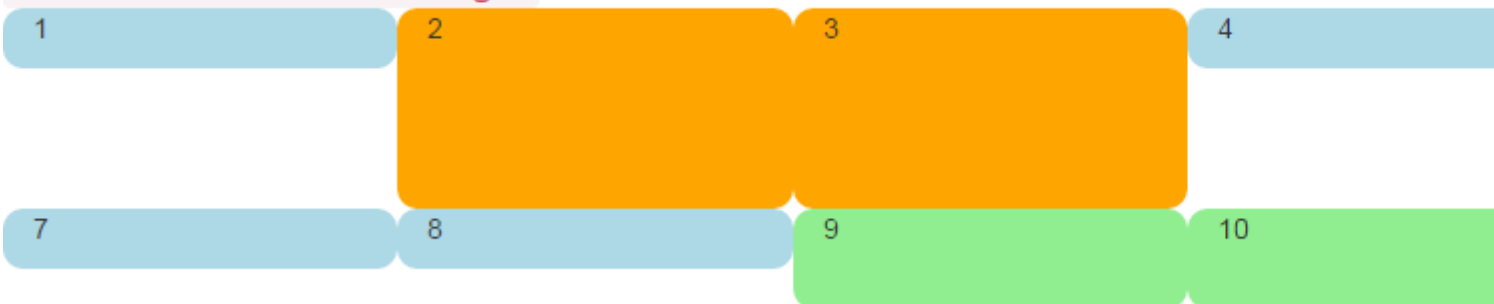
```
<div class="container-fluid">
  <div class="row">
    <div class="col-xs-6 col-md-3 col-lg-2">1</div>
    <div class="col-xs-6 col-md-3 col-lg-2 cell-tall">2</div>
    <!--
      On small and extra small devices, the viewport will render TWO cells
      (12 / 6 = 2), so we need a clearfix every TWO cells. We also need to
      say "don't show this clearfix when the viewport will render FOUR cells",
      which it will do at medium size (12 / 3 = 4). We do that by adding
      hidden-md and hidden-lg to our clearfix div, in effect instructing the
      browser to not show it at all on a wider screen.
    -->
    <div class="clearfix hidden-md hidden-lg"></div>
    <!-->
    <div class="col-xs-6 col-md-3 col-lg-2 cell-tall">3</div>
    <div class="col-xs-6 col-md-3 col-lg-2">4</div>
```

```

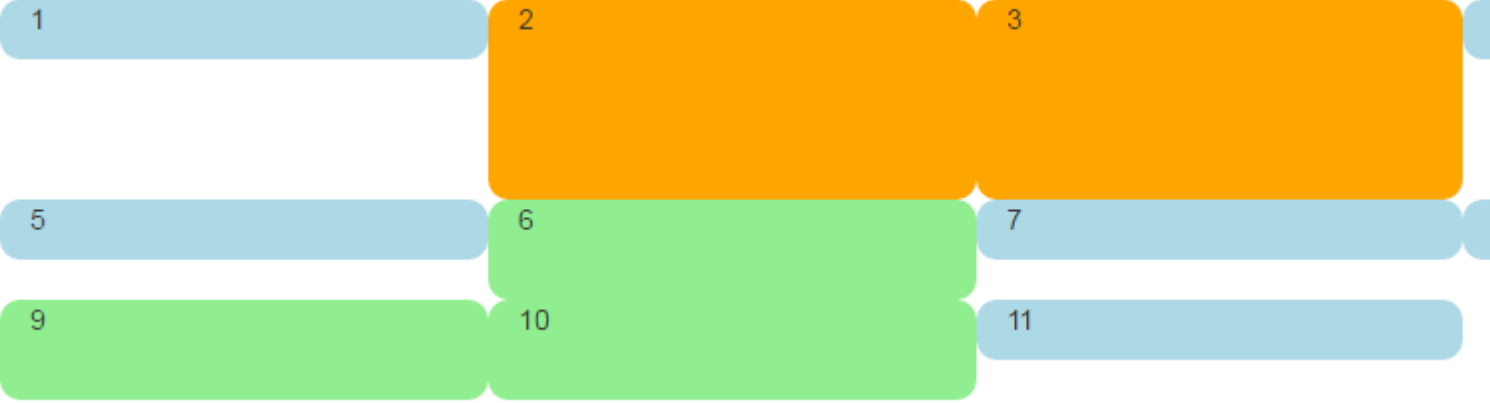
<!--
    After the FOURTH cell, we need a clearfix, but it still needs to be
    hidden on LARGE viewports, because remember we will have a maximum of
    SIX cells now.
-->
<div class="clearfix hidden-lg"></div>
<!------>
<div class="col-xs-6 col-md-3 col-lg-2">5</div>
<div class="col-xs-6 col-md-3 col-lg-2 cell-med">6</div>
<!--
    After the SIXTH cell, we need to show on SMALL and LARGE, but not on
    MEDIUM. Remember, our MEDIUM viewport only wants a clearfix when we
    are at a multiple of FOUR.
-->
<div class="clearfix hidden-md"></div>
<!------>
<div class="col-xs-6 col-md-3 col-lg-2">7</div>
<div class="col-xs-6 col-md-3 col-lg-2">8</div>
<!--
    Now we have rendered EIGHT cells, which is a multiple of TWO AND FOUR,
    so we put in a clearfix that's not visible on LARGE, because we are NOT
    at a multiple of SIX.
-->
<div class="clearfix hidden-lg"></div>
<!------>
<div class="col-xs-6 col-md-3 col-lg-2 cell-med">9</div>
<div class="col-xs-6 col-md-3 col-lg-2 cell-med">10</div>
<!--
    After the 10th cell, small only.
-->
<div class="clearfix hidden-md hidden-lg"></div>
<!------>
<div class="col-xs-6 col-md-3 col-lg-2">11</div>
</div>
</div>

```

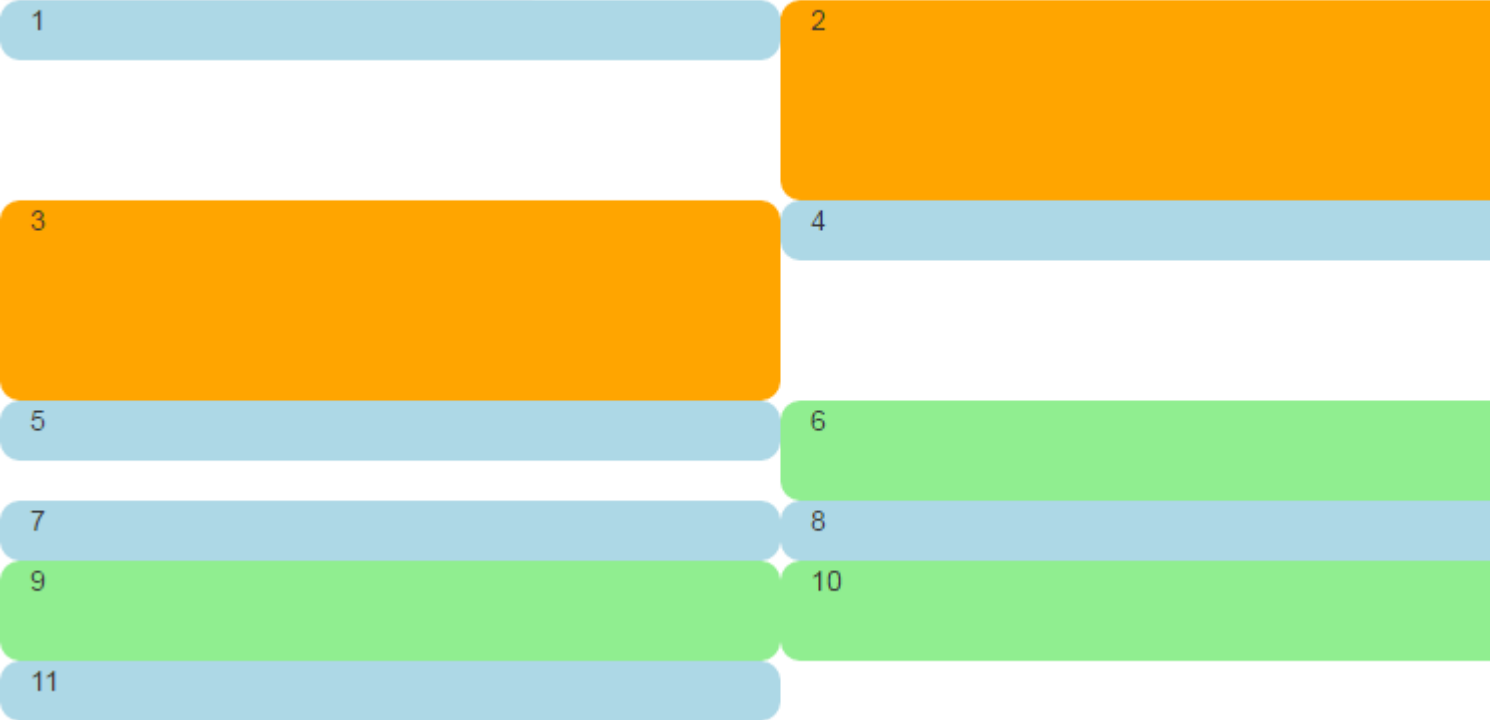
col-xs-6 col-md-3 col-lg-2



col-xs-6 col-md-3 col-lg-2



col-xs-6 col-md-3 col-lg-2



Bootstrap12

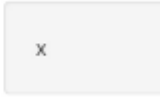
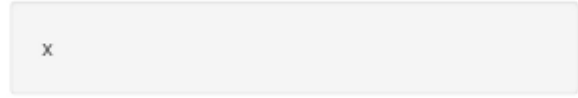
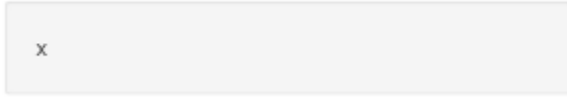
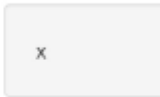
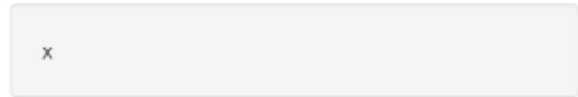
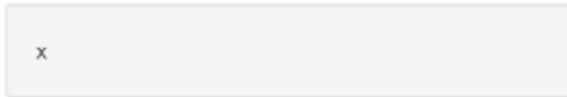
.row.row12° °

12°

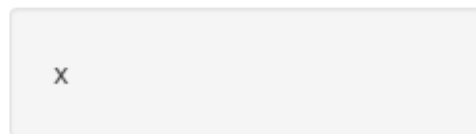
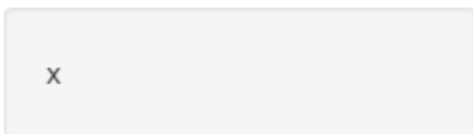
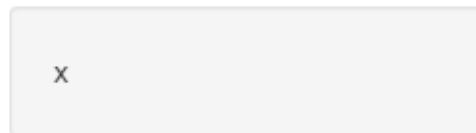
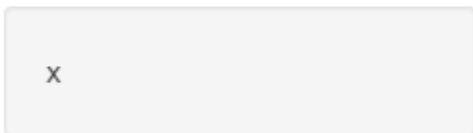
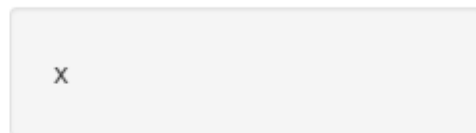
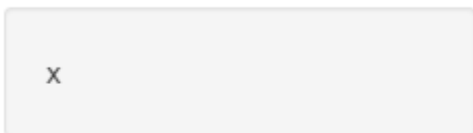
.....

- 3
- 2

Large



Small



Bootstrap..

```
<div class="row">
  <div class="col-xs-6 col-md-4"> x </div>
  <div class="col-xs-6 col-md-4"> x </div>
  <div class="col-xs-6 col-md-4"> x </div>
  <div class="col-xs-6 col-md-4"> x </div>
  <div class="col-xs-6 col-md-4"> x </div>
  <div class="col-xs-6 col-md-4"> x </div>
</div>
```

.row 12。 Bootstrap。 12。

12..

```
<div class="row">
  <div class="col-xs-6 col-md-4"> x </div>
  <div class="col-xs-6 col-md-4"> x </div>
</div>
```

```
<div class="row">
  <div class="col-xs-6 col-md-4"> x </div>
  <div class="col-xs-6 col-md-4"> x </div>
</div>
<div class="row">
  <div class="col-xs-6 col-md-4"> x </div>
  <div class="col-xs-6 col-md-4"> x </div>
</div>
```

3

.row° .row° .row12° 12°

clearfix°

Clearfix <https://riptutorial.com/zh-CN/twitter-bootstrap/topic/6124/clearfix>

17:

Examples

.hidden- * - SCSS

```
// Mixin to generate hidden classes
@mixin generate-hidden-classes {
  @each $bp in map-keys($grid-breakpoints) {
    .hidden-#{$bp} {
      @include media-breakpoint-only($bp) {
        display: none !important;
      }
    }
  }
}

// Call to the mixin
@include generate-hidden-classes();
```

<https://riptutorial.com/zh-CN/twitter-bootstrap/topic/6217/>

18:

Examples

```
<div class="navbar navbar-inverse navbar-fixed-top">
  <div class="container">
    <div class="navbar-header">
      <!-- vvv Hamburger icon that gets shown when window reaches a certain scale vvv -->
      <button type="button" class="navbar-toggle" data-toggle="collapse" data-target=".navbar-collapse">
        <span class="sr-only">Toggle navigation</span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
      </button>
      <!-- ^^^ Hamburger icon that gets shown when window reaches a certain scale ^^^ -->
      <a class="navbar-brand" href="#">WebSite Title</a>
    </div>
    <div class="navbar-collapse collapse">
      <ul class="nav navbar-nav">
        <li><a href="#">Home</a></li>
        <li><a href="#">About</a></li>
        <li><a asp-controller="Home" asp-action="Contact">Contact</a></li>
      </ul>
    </div>
  </div>
</div>
```

```
<div class="navbar navbar-inverse navbar-fixed-top">
  <div class="container">
    <div class="navbar-header">
      <button type="button" class="navbar-toggle" data-toggle="collapse" data-target=".navbar-collapse">
        <span class="sr-only">Toggle navigation</span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
      </button>
      <a class="navbar-brand" href="#">WebSite Title</a>
    </div>
    <div class="navbar-collapse collapse">
      <ul class="nav navbar-nav">
        <li><a href="#">Home</a></li>
        <li><a href="#">About>About</a></li>
        <li><a asp-controller="Home" asp-action="Contact">Contact</a></li>
        <!-- vvv Create a submenu in the navbar vvv -->
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown">Testing Stuff
          <b class="caret"></b></a>
          <ul class="dropdown-menu">
            <li><a href="#">SubItem</a></li>
            <li><a href="#">Something Sub-y</a></li>
          </ul>
        </li>
      </ul>
    </div>
  </div>
</div>
```

```

        <!-- ^^ Create a submenu in the navbar ^^ -->
    </ul>
</div>
</div>
</div>

```

```

<div class="navbar navbar-inverse navbar-fixed-top">
  <div class="container">
    <div class="navbar-header">
      <button type="button" class="navbar-toggle" data-toggle="collapse" data-
target=".navbar-collapse">
        <span class="sr-only">Toggle navigation</span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
      </button>
      <a class="navbar-brand" href="#">WebSite Title</a>
    </div>
    <div class="navbar-collapse collapse">
      <ul class="nav navbar-nav">
        <li><a href="#">Home</a></li>
        <!-- vvv Create a divider in the nav vvv -->
        <li class="divider"></li>
        <!-- ^^ Create a divider in the nav ^^ -->
        <li><a href="#">About</a></li>
        <li><a asp-controller="Home" asp-action="Contact">Contact</a></li>
      </ul>
    </div>
  </div>
</div>

```

“”

```

// Add active class to active navigation link
$(document).ready(function () {
  $('ul.nav.navbar-nav').find('a[href="' + location.pathname + '"']')
    .closest('li').addClass('active');
});

```

Navbar

max-width

```

@media (max-width: 1200px) {
  .navbar-header {
    float: none;
  }
  .navbar-left, .navbar-right {
    float: none !important;
  }
  .navbar-toggle {
    display: block;
  }
  .navbar-collapse {
    border-top: 1px solid transparent;
    box-shadow: inset 0 1px 0 rgba(255,255,255,0.1);
  }
}

```

```

}
.navbar-fixed-top {
  top: 0;
  border-width: 0 0 1px;
}
.navbar-collapse.collapse {
  display: none!important;
}
.navbar-nav {
  float: none!important;
  margin-top: 7.5px;
}
.navbar-nav>li {
  float: none;
}
.navbar-nav>li>a {
  padding-top: 10px;
  padding-bottom: 10px;
}
.collapse.in{
  display:block !important;
}
.navbar-nav .open .dropdown-menu {
  position: static;
  float: none;
  width: auto;
  margin-top: 0;
  background-color: transparent;
  border: 0;
  -webkit-box-shadow: none;
  box-shadow: none;
}
}
}

```

```

jQuery('body').bind('click', function(e) {
  if(jQuery(e.target).closest('#navbar').length == 0) {
    // click happened outside of .navbar, so hide
    var opened = jQuery('.navbar-collapse').hasClass('collapse in');
    if ( opened === true ) {
      jQuery('#navbar2 .navbar-collapse').collapse('hide');
    }
  }
});

```

<https://riptutorial.com/zh-CN/twitter-bootstrap/topic/2267/>

19:

Examples

```
<ul class="nav nav-pills">
  <li role="presentation" class="active"><a href="#">Home</a></li>
  <li role="presentation"><a href="#">Profile</a></li>
  <li role="presentation"><a href="#">Messages</a></li>
</ul>
```

```
<ul class="nav nav-pills nav-stacked">
  <li role="presentation" class="active"><a href="#">Home</a></li>
  <li role="presentation"><a href="#">Profile</a></li>
  <li role="presentation"><a href="#">Messages</a></li>
</ul>
```

```
<ul class="nav nav-tabs nav-justified">
  <li role="presentation" class="active"><a href="#">Home</a></li>
  <li role="presentation"><a href="#">Profile</a></li>
  <li role="presentation"><a href="#">Messages</a></li>
</ul>
```

<https://riptutorial.com/zh-CN/twitter-bootstrap/topic/6404/>

20:

<http://getbootstrap.com/javascript/>。

Examples

Bootstrap

BootstrapBootstrapjQuery。

BootstrapJavascript。 Bootstrap。

。

<https://riptutorial.com/zh-CN/twitter-bootstrap/topic/6054/>

21:

Examples

◦

.form-group◦

```
<form>
  <div class="form-group">
    <label for="input-email">Email address</label>
    <input type="email" class="form-control" id="input-email" placeholder="Email">
  </div>
  <div class="form-group">
    <label for="input-password">Password</label>
    <input type="password" class="form-control" id="input-password" placeholder="Password">
  </div>
  <button type="submit" class="btn btn-default">Submit</button>
</form>
```

readonly◦

```
<input class="form-control" type="text" placeholder="Readonly input here.." readonly>
```

disabled◦ ◦ ◦

```
<input class="form-control" id="disabledInput" type="text" placeholder="Disabled input here..." disabled>
```

<https://riptutorial.com/zh-CN/twitter-bootstrap/topic/6251/>

22:

bootstrap.min.js。

[http //getbootstrap.com/javascript/#modals](http://getbootstrap.com/javascript/#modals)

Examples

HTML

。

```
<!-- Clicking the button will open the modal window -->
<button type="button" class="btn btn-success btn-lg" data-toggle="modal" data-
target="#theModal">Open The Modal</button>

<!-- The Modal -->
<div id="theModal" class="modal fade" role="dialog">
  <div class="modal-dialog">
    <div class="modal-content">
      <div class="modal-header">
        <button type="button" class="close" data-dismiss="modal">&times;</button>
        <h4 class="modal-title">Text For The Modal Header</h4>
      </div>
      <div class="modal-body">
        <p>Text for The Modal Body.</p>
      </div>
      <div class="modal-footer">
        <button type="button" class="btn btn-default" data-
dismiss="modal">Close</button>
      </div>
    </div>
  </div>
</div>
</div>
```

<https://riptutorial.com/zh-CN/twitter-bootstrap/topic/6320/>

23:

◦ ◦

jQuery ◦ DOM

```
<script>
  $(document).ready(function() {
    $('[data-toggle="tooltip"]').tooltip();
  });
</script>
```

Examples

◦ data-placement ◦

```
<a href="#" data-toggle="tooltip" data-placement="top" title="Top tooltip">Hover</a>
<a href="#" data-toggle="tooltip" data-placement="bottom" title="Bottom tooltip">Hover</a>
<a href="#" data-toggle="tooltip" data-placement="left" title="Left tooltip">Hover</a>
<a href="#" data-toggle="tooltip" data-placement="right" title="Right tooltip">Hover</a>
```

Hover Hover Hover [Hover](#) **Right tooltip**

data-placement="auto" ◦ ◦

```
<a href="#" data-toggle="tooltip" data-placement="auto left" title="To the left?">Hover</a>
```

data-toggle="tooltip" title HTML ◦ Title ◦

```
<span data-toggle="tooltip" title="Hello world!">Hover over me</span>
```

Hello world!

Hover over me

<https://riptutorial.com/zh-CN/twitter-bootstrap/topic/3731/>

24:

<http://getbootstrap.com/javascript/#carousel>HTMLJavascript。

CSS3/IE 9。

Examples

HTML

BootstrapBootstrap。

HTML

```
<div id="carousel-example-generic" class="carousel slide" data-ride="carousel">
  <!-- Indicators -->
  <ol class="carousel-indicators">
    <li data-target="#carousel-example-generic" data-slide-to="0" class="active"></li>
    <li data-target="#carousel-example-generic" data-slide-to="1"></li>
    <li data-target="#carousel-example-generic" data-slide-to="2"></li>
  </ol>

  <!-- Wrapper for slides -->
  <div class="carousel-inner" role="listbox">
    <div class="item active">
      
      <div class="carousel-caption">
        ...
      </div>
    </div>
    <div class="item">
      
      <div class="carousel-caption">
        ...
      </div>
    </div>
    ...
  </div>

  <!-- Controls -->
  <a class="left carousel-control" href="#carousel-example-generic" role="button" data-
slide="prev">
    <span class="glyphicon glyphicon-chevron-left" aria-hidden="true"></span>
    <span class="sr-only">Previous</span>
  </a>
  <a class="right carousel-control" href="#carousel-example-generic" role="button" data-
slide="next">
    <span class="glyphicon glyphicon-chevron-right" aria-hidden="true"></span>
    <span class="sr-only">Next</span>
  </a>
</div>
```

Javascript

CarouseljQuery\$.carousel(options) \$.carousel() optionsJavaScript

options

- intervalJavaScript number false
- pauseJavaScript string ""
- wrapJavaScript boolean
- keyboardJavaScript boolean

JavaScript

```
$('#carCarousel').carousel({ interval: 2500, pause: "hover", wrap: false, keyboard: true });
```

BootstrapHTML

<https://riptutorial.com/zh-CN/twitter-bootstrap/topic/1568/>

25:

Examples

HTML

```
<ul class="nav nav-tabs" role="tablist">
  <li role="presentation">
    <a href="#id-of-content-1" role="tab" data-toggle="tab">Tab 1</a>
  </li>
  <li role="presentation">
    <a href="#id-of-content-2" role="tab" data-toggle="tab">Tab 2</a>
  </li>
  <li role="presentation">
    <a href="#id-of-content-3" role="tab" data-toggle="tab">Tab 3</a>
  </li>
</ul>

<div class="tab-content">
  <div role="tabpanel" id="id-of-content-1" class="tab-pane">Tab content 1</div>
  <div role="tabpanel" id="id-of-content-2" class="tab-pane">Tab content 2</div>
  <div role="tabpanel" id="id-of-content-3" class="tab-pane">Tab content 3</div>
</div>
```

33div。

.fade.tab-pane ◦ .in◦

```
<ul class="nav nav-tabs" role="tablist">
  <li role="presentation">
    <a href="#id-of-content-1" role="tab" data-toggle="tab">
      Tab 1
    </a>
  </li>
  <li role="presentation" class="active">
    <a href="#id-of-content-2" role="tab" data-toggle="tab">
      Tab 2
    </a>
  </li>
  <li role="presentation">
    <a href="#id-of-content-3" role="tab" data-toggle="tab">
      Tab 3
    </a>
  </li>
</ul>

<div class="tab-content">
  <div role="tabpanel" id="id-of-content-1" class="tab-pane fade">
    Tab content 1
  </div>
  <div role="tabpanel" id="id-of-content-2" class="tab-pane fade active in">
    Tab content 2
  </div>
  <div role="tabpanel" id="id-of-content-3" class="tab-pane fade">
    Tab content 3
  </div>
</div>
```

```
</div>  
</div>
```

<https://riptutorial.com/zh-CN/twitter-bootstrap/topic/5980/>

26:

<http://getbootstrap.com/javascript/#modals>“HTML”。

Examples

HTML

BootstrapBootstrap。

HTMLBootstrap

```
<div class="modal fade" tabindex="-1" role="dialog">
  <div class="modal-dialog">
    <div class="modal-content">
      <div class="modal-header">
        <button type="button" class="close" data-dismiss="modal" aria-label="Close"><span
aria-hidden="true">&times;</span></button>
        <h4 class="modal-title">Modal title</h4>
      </div>
      <div class="modal-body">
        <p>One fine body&hellip;</p>
      </div>
      <div class="modal-footer">
        <button type="button" class="btn btn-default" data-dismiss="modal">Close</button>
        <button type="button" class="btn btn-primary">Save changes</button>
      </div>
    </div><!-- /.modal-content -->
  </div><!-- /.modal-dialog -->
</div><!-- /.modal -->
```

Javascript

jQuery\$('#myModal').modal(options) \$('#myModal') optionsJavascript。

options。

- backdrop “static”。
- keyboard。
- show。

Javascript

```
$('#carModal').modal({ backdrop: false, keyboard: true, show: false });
```

BootstrapHTML。

<https://riptutorial.com/zh-CN/twitter-bootstrap/topic/5927/>

27:

- .btn-default | .btn-primary | .btn- | .btn-info | .btn-warning | .btn-danger | .btn-link;
- .btn-lg | .btn-md | .btn-sm | .btn-XS;
- | disabled.

Examples

Bootstrap.

.btn.

Bootstrap	
.btn-default	
.btn-primary	
.btn-success	
.btn-info	
.btn-warning	
.btn-danger	
.btn-link	.

.btn-size

Bootstrap	
.btn-lg	
.btn-sm	
.btn-xs	
.btn-block	

active.

```
<button type="button" class="btn btn-primary active">Active Primary</button>
```

disabled.

```
<button type="button" class="btn btn-primary disabled">Disabled Primary</button>
```

.btn-group. btn-group.

```
<div class="btn-group">
  <button type="button" class="btn btn-primary">Apples</button>
  <button type="button" class="btn btn-primary">Oranges</button>
  <button type="button" class="btn btn-primary">Pineapples</button>
</div>
```

.btn-group-vertical

```
<div class="btn-group-vertical">
  <button type="button" class="btn btn-primary">Apples</button>
  <button type="button" class="btn btn-primary">Oranges</button>
  <button type="button" class="btn btn-primary">Pineapples</button>
</div>
```

.btn-group ° .btn-group-justified °

```
<div class="btn-group btn-group-justified">
  <a href="#" class="btn btn-primary">Apples</a>
  <a href="#" class="btn btn-primary">Oranges</a>
  <a href="#" class="btn btn-primary">Pineapples</a>
</div>
```

<https://riptutorial.com/zh-CN/twitter-bootstrap/topic/4757/>

28:

Bootstrap

Examples

```
<div class="row">
  <div class="col-sm-9">
    Level 1: .col-sm-9
    <div class="row">
      <div class="col-xs-8 col-sm-6">
        Level 2: .col-xs-8 .col-sm-6
      </div>
      <div class="col-xs-4 col-sm-6">
        Level 2: .col-xs-4 .col-sm-6
      </div>
    </div>
  </div>
</div>
```

[<http://getbootstrap.com/css/#grid-nesting>][1]

.col-sm- *.row.col-sm- *. 1212.

Level 1: .col-sm-9	
Level 2: .col-xs-8 .col-sm-6	Level 2: .col-xs-4 .col-sm-6

<https://riptutorial.com/zh-CN/twitter-bootstrap/topic/9088/>

29:

Bootstrap 12 Columns CSS. Rows CSS. .container.container-fluid

Bootstrap 12

Examples

Bootstrap LESS 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) { ... }
```

CSS

```
@media (max-width: @screen-xs-max) { ... }
@media (min-width: @screen-sm-min) and (max-width: @screen-sm-max) { ... }
@media (min-width: @screen-md-min) and (max-width: @screen-md-max) { ... }
@media (min-width: @screen-lg-min) { ... }
```

Bootstrap

Bootstrap Bootstrap 34 Bootstrap 3xs sm mdlg Bootstrap col-{breakpoint}-{units} CSS

.

Bootstrap CSS

- col-xs-* - < 768
- col-sm-* - >= 768
- col-md-* - >= 992
- col-lg-* - >= 1200

	Extra small devices Phones (<768px)	Small devices Tablets (≥768px)	Medium devices Desktops (≥992px)	Large devices (≥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			

50 `col-*-6 ..`

```
<div class="col-xs-6 col-sm-6 col-md-6 col-lg-6">..</div>
```

`col-xs-6` `col-sm-6` `col-md-6` `col-lg-6`

```
<div class="col-xs-6">..</div>
```

`col-*-*`

50 `col-sm-6` `col-md-6` `col-lg-6`

```
<div class="col-md-3 col-sm-6">..</div>
```

`col-sm-6` `col-md-6` `col-lg-6` `col-xs-6`

Bootstrap

Bootstrap 12

1210,1612643 Bootstrap `col-{breakpoint}-{units}` CSS AKA

`col-md-3` `col-sm-6` `col-lg-6` HTML `col-{breakpoint}-{units}`

```
<div class="col-{breakpoint}-{units}">
```

.

Bootstrap 3

- col-*-1 1 of 128.33333333
- col-*-2 2 of 1216.66666667
- col-*-3 3 of 1225
- col-*-4 4 of 1233.33333333
- col-*-5 5 of 1241.66666667
- col-*-6 6 of 1250
- col-*-7 7 of 1258.33333333
- col-*-8 8 of 1266.66666667
- col-*-9 9 of 1275
- col-*-10 1010 of 1283.33333333
- col-*-11 1111 of 1291.66666667
- col-*-12 of 12100

- Bootstrap12

Bootstrap

Bootstrap .row◦ Container containercontainer-fluid◦ Row-15px◦ ◦

```
<div class="container">
  <div class="row">
    <!-- one more columns -->
    <div class="col-{breakpoint}-{units}">..</div>
  </div>
</div>
```

.row.row 12◦ .row .row12◦

.row12clearfixes◦ ◦

Bootstrap Grid ColumnsRows

Bootstrap 3

Bootstrap 3 - 12

Bootstrap

Bootstrap

Bootstrap◦ ◦

.container◦

```
<div class="container">
  ...
</div>
```

.container-fluid.container-fluid

o

```
<div class="container-fluid">
  ...
</div>
```

padding

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

```
<div class="row">
  <div class="col-lg-4"></div>
  <div class="col-lg-4 col-lg-offset-4"></div>
</div>
<div class="row">
  <div class="col-lg-5 col-lg-offset-1"></div>
  <div class="col-lg-5 col-lg-offset-1"></div>
</div>
```

```
<div class="container content">
  <div class="row">
    <!--Main Content-->
    <div class="col-lg-9 col-lg-push-3">
      Main Content
    </div>

    <!--Sidebar-->
    <div class="col-lg-3 col-lg-pull-9">
      Sidebar
    </div>
  </div>
</div>
```

o

.col-md-push- *.col-md-pull- *.

[Twitter Bootstrap 3 col-lg-push col-lg-pull](#)
[Bootstrap 3/](#)
[Bootstrap 3](#)

<https://riptutorial.com/zh-CN/twitter-bootstrap/topic/3330/>

30:

Examples

.table

```
<table class="table">
  <tr>
    <th>Season</th>
    <th>Doctor</th>
    <th>Companion</th>
  </tr>
  <tr>
    <td>1</td>
    <td>Christopher Eccleston</td>
    <td>Rose Tyler</td>
  </tr>
</table>
```

<https://riptutorial.com/zh-CN/twitter-bootstrap/topic/6299/>

31:

◦ ◦

rowspan colspan

Examples

Bootstrap .table ◦ .table<table>.table

```
<table class="table">
  <thead><tr><th>First Name</th><th>Last name</th></tr></thead>
  <tbody>
    <tr><td>John</td><td>Doe</td></tr>
    <tr><td>Fred</td><td>Bloggs</td></tr>
  </tbody>
</table>
```

Bootstrap ◦

.table-striped

```
<table class="table table-striped">
  <thead><tr><th>First Name</th><th>Last name</th></tr></thead>
  <tbody>
    <tr><td>John</td><td>Doe</td></tr>
    <tr><td>Fred</td><td>Bloggs</td></tr>
  </tbody>
</table>
```

:nth-child CSS Internet Explorer 8 ◦

.table-bordered

```
<table class="table table-bordered">
  <thead><tr><th>First Name</th><th>Last name</th></tr></thead>
  <tbody>
    <tr><td>John</td><td>Doe</td></tr>
    <tr><td>Fred</td><td>Bloggs</td></tr>
  </tbody>
</table>
```

.table-hover

```
<table class="table table-hover">
  <thead><tr><th>First Name</th><th>Last name</th></tr></thead>
  <tbody>
```

```

    <tr><td>John</td><td>Doe</td></tr>
    <tr><td>Fred</td><td>Bloggs</td></tr>
  </tbody>
</table>

```

table-condensed

```

<table class="table table-hover">
  <thead><tr><th>First Name</th><th>Last name</th></tr></thead>
  <tbody>
    <tr><td>John</td><td>Doe</td></tr>
    <tr><td>Fred</td><td>Bloggs</td></tr>
  </tbody>
</table>

```

Bootstrap ◦ .active .success .info .warning .danger

```

<table class="table">
  <thead><tr><th>First Name</th><th>Last name</th></tr></thead>
  <tbody>
    <tr class="success"><td>John</td><td>Doe</td></tr>
    <tr><td>Fred</td><td class="info">Bloggs</td></tr>
  </tbody>
</table>

```

table-responsive **html** .table

```

<div class="table-responsive">
  <table class="table">
    <thead><tr><th>First Name</th><th>Last name</th></tr></thead>
    <tbody>
      <tr><td>John</td><td>Doe</td></tr>
      <tr><td>Fred</td><td>Bloggs</td></tr>
    </tbody>
  </table>
</div>

```

<768px ◦ 768px ◦

-

◦

Twitter ◦ .table-reflow

twitter bootstrap .table-reflow ◦ .table-striped .table-hover ◦

```

<table class="table table-striped table-hover table-reflow">
  <thead>
    <tr>

```

```
    <th ><strong> First Name: </strong></th>
    <th ><strong> Last Name: </strong></th>
    <th ><strong> Email: </strong></th>
  </tr>
</thead>
<tbody>
  <tr>
    <td> John </td>
    <td> Doe </td>
    <td> john.doe@email.com </td>
  </tr>
  <tr>
    <td> Joane </td>
    <td> Donald </td>
    <td> jane@email.com </td>
  </tr>
</tbody>
</table>
```

v4 alpha [twitter-bootstrap .table-reflow](#)

<https://riptutorial.com/zh-CN/twitter-bootstrap/topic/6360/>

32:

[http //getbootstrap.com/components/#alerts](http://getbootstrap.com/components/#alerts)

Examples

Bootstrap defaultprimary°

```
<div class="alert alert-success" role="alert">
  Some action was completed successfully
</div>
<div class="alert alert-info" role="alert">
  Here is some information. Just FYI.
</div>
<div class="alert alert-warning" role="alert">
  Careful! You're about to do something dangerous.
</div>
<div class="alert alert-danger" role="alert">
  An error (or something dangerous) happened!
</div>
```

```
<div class="container">
  <h2>Alerts</h2>
  <div class="alert alert-success">
    <strong>Success!</strong>
  </div>
  <div class="alert alert-info">
    <strong>Info!</strong>
  </div>
  <div class="alert alert-warning">
    <strong>Warning!</strong> All foelds are required
  </div>
  <div class="alert alert-danger">
    The username is required and can't be empty
  </div>
</div>
```

Alerts

Success!

Info!

Warning! This alert box could indicate a warning that might need attention.

The username is required and can't be empty

.fade.in°

```
<div class="alert alert-success fade in">
  <a href="#" class="close" data-dismiss="alert" aria-label="close">&times;</a>
  <strong>Success!</strong> This is a good example!
</div>
```

data-dismiss="alert" °

```
<div class="alert alert-info alert-dismissible" role="alert">
  <button type="button" class="close" data-dismiss="alert" aria-label="Close">
    <span aria-hidden="true">&times;</span>
  </button>
  Sphinx of black quartz, judge my vow
</div>
```

Sphinx of black quartz, judge my vow



.alert-dismissible.close°

.alert-link°

```
<div class="alert alert-success">
  You have won! Click <a href="#" class="alert-link">here</a> to claim your prize ...
</div>

<div class="alert alert-info">
  You might want to check <a href="#" class="alert-link">this</a> instead.
</div>
```

```
<div class="alert alert-warning">
  You are running out of coins. Buy more <a href="#" class="alert-link">here</a>.
</div>

<div class="alert alert-danger">
  Something went wrong. You can try <a href="#" class="alert-link">again</a> or ...
</div>
```

Congratulations! You have **WON!** Click **here** to claim your prize ...

You might want to check **this** instead.

You are running out of coins. Buy more **here**.

Something went wrong. You can try **again** or ...

<https://riptutorial.com/zh-CN/twitter-bootstrap/topic/6434/>

33:

Examples

Bootstrap Navs

Bootstrap.nav° °

```
<ul class="nav nav-tabs">
  <li role="presentation" class="active"><a href="#">Home</a></li>
  <li role="presentation"><a href="#">Profile</a></li>
  <li role="presentation"><a href="#">Messages</a></li>
</ul>
```

```
<ul class="nav nav-pills">
  <li role="presentation" class="active"><a href="#">Home</a></li>
  <li role="presentation"><a href="#">Profile</a></li>
  <li role="presentation"><a href="#">Messages</a></li>
</ul>
```

```
<ul class="nav nav-tabs nav-justified">
  ...
</ul>
<ul class="nav nav-pills nav-justified">
  ...
</ul>
```

```
<ul class="nav nav-tabs">
  <li role="presentation" class="dropdown">
    <a class="dropdown-toggle" data-toggle="dropdown" href="#" role="button" aria-
haspopup="true" aria-expanded="false">
      Dropdown <span class="caret"></span>
    </a>
    <ul class="dropdown-menu">
      ...
    </ul>
  </li>
</ul>
```

<https://riptutorial.com/zh-CN/twitter-bootstrap/topic/6505/>

34:

JumbotronBootstrap。。

jumbotron。

Examples

jumbotron

。

```
<div class="jumbotron">
  <h1>Title text</h1>
  <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec tortor ipsum, convallis sit.</p>
  <p><a class="btn btn-default" href="#" role="button">A button</a></p>
</div>
```

Title text

Lorem ipsum dolor sit amet, consectetur adipiscing elit.
Donec tortor ipsum, convallis sit.

A button

<https://riptutorial.com/zh-CN/twitter-bootstrap/topic/9188/>

35: Bootstrap 4

Bootstrap 4 Bootstrap 3 Bootstrap 3.x Bootstrap 4.x

Examples

Bootstrap 4

Bootstrap 3 Bootstrap 3.4 col-md-* col-lg-* col-sm-* col-xs-* Bootstrap 3

```
<div class="row">
  <div class="col-lg-4 col-md-8 col-sm-8 col-xs-8">
    contents
  </div>
  <div class="col-lg-4 col-md-4 col-sm-4 col-xs-4">
    contents
  </div>
</div>
```

Bootstrap 4 768px sm Bootstrap 4 col-* (xs), col-sm-*, col-md-*, col-lg-*, and col-xl-* v3
.col-md-6 v4.col-lg-6 -xs.col-6

Bootstrap 4

```
<div class="row">
  <div class="col-xl-8 col-lg-8 col-md-8 col-sm-8 col-8">
    contents
  </div>
  <div class="col-xl-8 col-lg-8 col-md-4 col-sm-4 col-4">
    contents
  </div>
</div>
```

4

	Extra small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	Extra large ≥1200px
Grid behavior	Horizontal at all times	Collapsed to start, horizontal above breakpoints			
Max container width	None (auto)	540px	720px	960px	1140px
Class prefix	<code>.col-</code>	<code>.col-sm-</code>	<code>.col-md-</code>	<code>.col-lg-</code>	<code>.col-xl-</code>
# of columns	12				
Gutter width	30px (15px on each side of a column)				
Nestable	Yes				
Offsets	Yes				
Column ordering	Yes				

twitter-bootstrap 4 ^{IE8, IE9, and iOS 6} ^{v4} ^{IE10+ and iOS 7+} ^{v3}.

twitter-bootstrap 4 ^{Android v5.0 Lollipop's Browser and WebView} ^{AndroidWebView} unofficially supported.

Bootstrap 4.

position: sticky ^{polyfill}.

Affix ^{polyfill}. ScrollPos-Styler.

Bootstrap

Affix jQuery ^{polyfill}. ^{polyfill}HTML5 Please.

Affix ^{polyfill}. ScrollPos-Styler.

Bootstrap v3 Bootstrap v4 -

HTML

```
<header>
</header>
<nav class="navbar navbar-light bg-faded" data-toggle="affix">
  <button class="navbar-toggler hidden-sm-up pull-xs-right" type="button" data-
```

```

toggle="collapse" data-target="#collapsingNavbar">
  ≡
</button>
<a class="navbar-brand" href="#">Brand</a>
<div class="collapse navbar-toggleable-xs" id="collapsingNavbar">

  <ul class="nav navbar-nav pull-xs-right">
    <li class="nav-item dropdown">
      <a class="nav-link dropdown-toggle" data-toggle="dropdown" href="#"
role="button" aria-haspopup="true" aria-expanded="false">
        Menu
      </a>
      <div class="dropdown-menu" aria-labelledby="Preview">
        <a class="dropdown-item" href="#">Logout</a>

      </div>
    </li>
    <li class="nav-item">
      <a class="nav-link" href="#">Link</a>
    </li>
    <li class="nav-item ">
      <a class="nav-link" href="#">Link</a>
    </li>
    <li class="nav-item ">
      <a class="nav-link" href="#">Link</a>
    </li>
  </ul>
</div>
</nav>

<div class="container" id="main">
  <h2>Hello Bootstrap 4.</h2>
  <div class="row">
    <div class="col-xs-12 col-sm-6 col-md-9">
      <p>3 wolf moon retro jean shorts chambray sustainable roof party. Shoreditch vegan
artisan Helvetica. Tattooed Codeply Echo Park Godard kogi, next level irony ennui twee squid
fap selvage. Meggings flannel Brooklyn literally small batch, mumblecore
PBR try-hard kale chips. Brooklyn vinyl lumbersexual bicycle rights, viral fap
cronut leggings squid chillwave pickled gentrify mustache. 3 wolf moon hashtag church-key Odd
Future. Austin messenger bag normcore, Helvetica Williamsburg
sartorial tote bag distillery Portland before they sold out gastropub
taxidermy Vice.</p>
    </div>
    <div class="col-xs-6 col-md-3">
      <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis pharetra codeply
varius quam sit amet vulputate. Quisque mauris augue, molestie tincidunt codeply condimentum
vitae, gravida a libero. Aenean sit amet felis dolor, in sagittis nisi.
Sed ac orci quis tortor imperdiet venenatis. Duis elementum auctor accumsan.
Aliquam in felis sit amet augue.
</p>
      <hr>
      <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Duis pharetra codeply
varius quam sit amet vulputate. Quisque mauris augue, molestie tincidunt codeply condimentum
vitae, gravida a libero. Aenean sit amet felis dolor, in sagittis nisi.
Sed ac orci quis tortor imperdiet venenatis. Duis elementum auctor accumsan.
Aliquam in felis sit amet augue.
</p>
    </div>
  </div>
</div>
<div class="row">
  <div class="col-xs-6 col-sm-4">

```

```

        <div class="card card-outline-primary">
            <div class="card-block">
                <h3 class="card-title">Card</h3>
                <p class="card-text">With supporting text below as a natural lead-in to
additional content.</p>
                <a href="#" class="btn btn-outline-secondary">Outline</a>
            </div>
        </div>
    </div>
</div>
<div class="col-xs-6 col-sm-4">
    <div class="card card-outline-primary">
        <div class="card-block">
            <h3 class="card-title">Card</h3>
            <p class="card-text">With supporting text below as a natural lead-in to
additional content.</p>
            <a href="#" class="btn btn-outline-secondary">Outline</a>
        </div>
    </div>
</div>
<div class="col-xs-6 col-sm-4">
    <div class="card card-outline-primary">
        <div class="card-block">
            <h3 class="card-title">Card</h3>
            <p class="card-text">With supporting text below as a natural lead-in to
additional content.</p>
            <a href="#" class="btn btn-outline-secondary">Outline</a>
        </div>
    </div>
</div>
</div>
</div>
</div>

```

CSS

```

header {
    height: 220px;
    background: #ccc;
}

```

JAVASCRIPT

```

$(document).ready(function() {

    var toggleAffix = function(affixElement, scrollElement, wrapper) {

        var height = affixElement.outerHeight(),
            top = wrapper.offset().top;

        if (scrollElement.scrollTop() >= top){
            wrapper.height(height);
            affixElement.addClass("affix");
        }
        else {
            affixElement.removeClass("affix");
            wrapper.height('auto');
        }
    };
});

```

```

$( '[data-toggle="affix"]' ).each(function() {
  var ele = $(this),
      wrapper = $('<div></div>');

  ele.before(wrapper);
  $(window).on('scroll resize', function() {
    toggleAffix(ele, $(this), wrapper);
  });

  // init
  toggleAffix(ele, $(window), wrapper);
});
});

```

Bootstrap 4 Navbar

Bootstrap 4 Navbar Bootstrap 3.x。 Bootstrap 4Navbar **flexbox**Navbar。 navbar-toggable-*
Navbar。 Navbar6”Navbar。

- Navbar。
- Navbar。
- Navbar 4。

Bootstrap 4 Navbar

```

<nav class="navbar navbar-toggable-md">
  <button class="navbar-toggler navbar-toggler-right" type="button" data-toggle="collapse"
  data-target="#navbar1">
    <span class="navbar-toggler-icon"></span>
  </button>
  <a class="navbar-brand" href="#">Navbar</a>
  <div class="collapse navbar-collapse" id="navbar1">
    <ul class="navbar-nav mr-auto">
      <li class="nav-item active">
        <a class="nav-link" href="#">Home</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">Link</a>
      </li>
    </ul>
  </div>
</nav>

```

navbar-header Bootstrap 4Navbar container-fluid。

navbar-toggable-mdNavbar92pxmd navbar-toggable-md。 navbar-toggable-md。

- navbar-toggable =_{xs}<576px
- --SM =_{sm}<768px
- navbar-toggable-lg =_{lg}<1200px

Bootstrap 4 Breakpoint Navbar Demo

FlexboxNavbar. Navbar.

-
-
-
-
-
-
-

/Bootstrap 4 Navbar

```
<nav class="navbar navbar-toggleable-sm navbar-inverse bg-primary">
  <button class="navbar-toggler navbar-toggler-right" type="button" data-toggle="collapse"
data-target=".dual-collapse">
    <span class="navbar-toggler-icon"></span>
  </button>
  <div class="navbar-collapse collapse dual-collapse">
    <ul class="navbar-nav mr-auto">
      <li class="nav-item active">
        <a class="nav-link" href="#">Link</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#features">Link</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">Link</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">Link</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">Link</a>
      </li>
    </ul>
  </div>
  <a class="navbar-brand d-flex mx-auto" href="#">Navbar 2</a>
  <div class="navbar-collapse collapse dual-collapse">
    <ul class="navbar-nav ml-auto">
      <li class="nav-item">
        <a class="nav-link" href="#">Link</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">Link</a>
      </li>
    </ul>
  </div>
</nav>
```

Bootstrap 4 Navbar

```
<nav class="navbar navbar-light navbar-toggleable-sm bg-faded justify-content-center">
  <button class="navbar-toggler navbar-toggler-right" type="button" data-toggle="collapse"
data-target="#collapsingNavbar3">
    <span class="navbar-toggler-icon"></span>
  </button>
  <a href="/" class="navbar-brand d-flex w-50 mr-auto">Brand</a>
  <div class="navbar-collapse collapse" id="collapsingNavbar3">
```

```

<ul class="navbar-nav mx-auto w-100 justify-content-center">
  <li class="nav-item active">
    <a class="nav-link" href="#">Link</a>
  </li>
  <li class="nav-item">
    <a class="nav-link" href="#">Link</a>
  </li>
  <li class="nav-item">
    <a class="nav-link" href="#">Link</a>
  </li>
</ul>
<ul class="nav navbar-nav ml-auto w-100 justify-content-end">
  <li class="nav-item">
    <a class="nav-link" href="#">Right</a>
  </li>
  <li class="nav-item">
    <a class="nav-link" href="#">Right</a>
  </li>
</ul>
</div>
</nav>

```

Navbar Alignment Demos [http //www.codeply.com/go/qhaBrcWp3v](http://www.codeply.com/go/qhaBrcWp3v)

Bootstrap 4 Navbar

Bootstrap 3 Bootstrap 4 CSS

Bootstrap 4 Bootstrap 3.x. Navbar CSS Flexbox 4.x 3.x.

Bootstrap 3.x CSS Bootstrap 4.

CSS/Bootstrap 3.3.74 alpha 6

{t} - sm md lg.

xs tier col-3 col-6.

{u} - col1-12

Bootstrap 3.x	Bootstrap 4
.col- {U}	.col- {t} - {u} leave {t} blank for xs
.col- {} -offset- {U}	.offset- {t} - {u} leave {t} blank for xs
.col- {} -push- {U}	.push- {t} - {u} leave {t} blank for xs
.col- {} -pull- {U}	.pull- {t} - {u} leave {t} blank for xs
◦	◦
.panel	.card

Bootstrap 3.x	Bootstrap 4
.panel	.card
.panel	.card
.panel	.card
.panel	.card-primary.card
.panel	.card-success.card
.panel-	.card-info.card
.panel	.card-warning.card
.panel-	.card-danger.card
◦	.card.card
.thumbnail	.card.card
.list-inline> li	.LIST
.dropdown-menu> li	.dropdown
.nav navbar> li	.nav
.nav navbar> li> a	.nav
.navbar	.ml-AUTO
.navbar-BTN	.nav
.navbar	.fixed
.nav	.flex
.btn	.btn
.IMG	.IMG
.IMG	.rounded
.IMG	.rounded
.FORM	
◦	.FORM
.checkbox	.FORM

Bootstrap 3.x	Bootstrap 4
◦ -LG	.FORM-LG
◦ -SM	.FORM-SM
·	.FORM
◦	◦ -SM
.pagination> li	◦
.pagination> li> a	◦
◦	.carousel
.text-	.FORM
.pull	.float
.pull	◦
.center	.MX-AUTO
.collapse.in	.collapse.show
.hidden-SM	.hidden-MD-
.hidden-MD	.hidden-LG-
.hidden-XS	.hidden-XS-
◦ -XS	.hidden-SM-
◦ -SM	.hidden-XS-down.hidden-MD
◦ -MD	.hidden-SM-down.hidden-LG-
◦ LG	.hidden-MD-down.hidden-XL-
◦	◦
◦	.badge.badge

[Bootstrap 3.x4](#)

[Bootstrap 4](#)

Bootstrap 4

CSSBootstrap ◦ ◦

Bootstrap 4 [flexbox](#) [Flexbox](#) [Display Utilities](#) [Vertical Align Utilities](#) ◦

[Vertical Alignment Utilities](#) ◦ Bootstrap 4.....

1 -

my-auto ◦ ◦ h-100my-autocol-sm-12◦

```
<div class="row h-100">
  <div class="col-sm-12 my-auto">
    <div class="card card-block w-25">Card</div>
  </div>
</div>
```

my-auto y

```
margin-top: auto;
margin-bottom: auto;
```

2 - Flexbox

Center

Taller

With supporting text

Outline

Bootstrap 4 `.rowdisplay:flexalign-self-center...`

```
<div class="row">
  <div class="col-6 align-self-center">
    <div class="card card-block">
      Center
    </div>
  </div>
  <div class="col-6">
    <div class="card card-inverse card-danger">
      Taller
    </div>
  </div>
</div>
```

`.rowalign-items-center.row col-* ...`

```

<div class="row align-items-center">
  <div class="col-6">
    <div class="card card-block">
      Center
    </div>
  </div>
  <div class="col-6">
    <div class="card card-inverse card-danger">
      Taller
    </div>
  </div>
</div>

```

3 - Display Utils

4utils display:table display:table-cell display:inline° [utils](#)°

```

<div class="row h-50">
  <div class="col-sm-12 h-100 d-table">
    <div class="card card-block d-table-cell align-middle">
      I am centered vertically
    </div>
  </div>
</div>

```

Display Utils

Bootstrap 4

Bootstrap 4°

- text-center display:inline
- mx-autocenter-block display:block
- offset-* mx-auto

mx-auto X display:block display:flex display:flex % vw px° **Flexbox** flexbox°

text-center

```

<div class="container">
  <h1 class="text-center">i'm centered</h1>
  <div class="row">
    <div class="col text-center">i'm centered!</div>
  </div>
</div>

```

display:block display:flex mx-auto

```

<div class="row">
  <div class="col-12">
    
  </div>

```

```
</div>
```

offset-*

```
<div class="row">
  <div class="col-4 offset-4">
    <h6>I'm .col-4 centered (offset 4)
  </div>
</div>
```

mx-auto

```
<div class="row">
  <div class="col-4 mx-auto">
    <h6>I'm .col-4 centered</h6>
  </div>
</div>
```

Bootstrap 4

Bootstrap 4y [Bootstrap 4 Vertical Align](#)

Bootstrap 4

Bootstrap 3。 Bootstrap 4 **flexbox** 。

4 push-{viewport}-{units}pull-{viewport}-{units}xs-。 1-3-2xssm

```
<div class="row">
  <div class="col-3 col-md-6">
    1
  </div>
  <div class="col-3 col-md-6 push-6 push-md-0">
    2
  </div>
  <div class="col-6 col-md-12 pull-3 pull-md-0">
    3
  </div>
</div>
```

Bootstrap 4

4flexbox **flexbox**。 12col-*-12**flexbox**。

```
<div class="row">
  <div class="col-md-12">
    Col 1
  </div>
  <div class="col-md-12 flex-first flex-md-unordered">
    Col 2
  </div>
</div>
```

```
</div>  
</div>
```

Flexbox

Bootstrap 4 <https://riptutorial.com/zh-CN/twitter-bootstrap/topic/9090/bootstrap-4>

36:

bootstrap

Examples

.panel

```
<div class="panel panel-default">
  <div class="panel-body">
    Basic panel example
  </div>
</div>
```

.panel-heading .panel-title<h1>-<h6> <h1>-<h6>.panel-heading

.panel-title

```
<div class="panel panel-default">
  <div class="panel-heading">Panel heading without title</div>
  <div class="panel-body">
    Panel content
  </div>
</div>

<div class="panel panel-default">
  <div class="panel-heading">
    <h3 class="panel-title">Panel title</h3>
  </div>
  <div class="panel-body">
    Panel content
  </div>
</div>
```

.panel-footer

```
<div class="panel panel-default">
  <div class="panel-body">
    Panel content
  </div>
  <div class="panel-footer">Panel footer</div>
</div>
```

<https://riptutorial.com/zh-CN/twitter-bootstrap/topic/2848/>

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