

Bootstrap

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HTML5

& VIEWPORT



The HTML5 doctype
should be used.

Use the viewport

SUPPORTED BROWSERS

Bootstrap supports the latest, stable releases of all major browsers and platforms

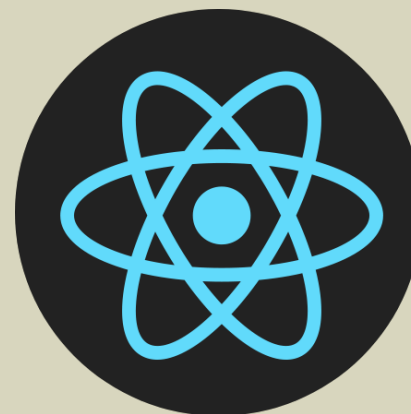


STANDARD TEMPLATE

```
<!doctype html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta name="viewport"
      content="width=device-width, initial-scale=1">
    <title>Bootstrap demo</title>
    <link href="bootstrap.min.css" rel="stylesheet">
  </head>
  <body>
    <h1>Hello, world!</h1>
    <script src="bootstrap.bundle.min.js" ></script>
  </body>
</html>
```

COMPATIBILITY

Bootstrap 5.x is fully compatible with all modern frameworks



CONTAINERS

Containers are the most basic element in bootstrap



OVERVIEW OF CONTAINERS

	Extra small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	X-Large ≥1200px	XX-Large ≥1400px
<code>.container</code>	100%	540px	720px	960px	1140px	1320px
<code>.container-sm</code>	100%	540px	720px	960px	1140px	1320px
<code>.container-md</code>	100%	100%	720px	960px	1140px	1320px
<code>.container-lg</code>	100%	100%	100%	960px	1140px	1320px
<code>.container-xl</code>	100%	100%	100%	100%	1140px	1320px
<code>.container-xxl</code>	100%	100%	100%	100%	100%	1320px
<code>.container-fluid</code>	100%	100%	100%	100%	100%	100%

THE CONTAINER

At every breakpoint,
bootstrap will adjust
the width of your
container element

```
<div id='container'>  
    <!-- your elements/content -->  
</div>
```


THE **CONTAINER**

A breakpoint is a Bootstrap 5 variable that stands for a screen resolution.

When you are specifying a breakpoint for a class, you are telling the class to be active only for resolutions that are at least as big as the number that the breakpoint holds.

FLUID CONTAINER

The container (and your content)
will span the entire viewport

```
<div id='container-fluid'>  
  <!-- your elements/content -->  
</div>
```

100% width



GRIDS

Bootstrap's grid system uses a series of containers, rows, and columns to layout and align content

3 COLUMN LAYOUT

```
1 <!doctype html>
2 <html lang="en">
3   <head>
4     <meta charset="utf-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1">
6     <title>Bootstrap Grid</title>
7     <link href="bootstrap.min.css">
8     <style>
9       .col {
10         background-color: blue;
11         color: white;
12         border: 1px dotted white;
13         height: 12vh;;
14       }
15     </style>
16   </head>
17   <body>
18     <div class="container text-center">
19       <div class="row">
20         <div class="col">
21           I like
22         </div>
23         <div class="col">
24           Met Cs601
25         </div>
26         <div class="col">
27           A LOT
28         </div>
29       </div>
30     </div>
31     <script src="bootstrap.bundle.min.js"></script>
32   </body>
33 </html>
```

I like

Met cs601

A LOT

There are 12 columns per row

You do not need to use all 12 columns.
Each column uses percentages

COLUMN EXAMPLE

1 of 2		2 of 2	
1 of 3	2 of 3	3 of 3	

```
<div class="container">
  <div class="row">
    <div class="col">
      1 of 2
    </div>
    <div class="col">
      2 of 2
    </div>
  </div>
  <div class="row">
    <div class="col">
      1 of 3
    </div>
    <div class="col">
      2 of 3
    </div>
    <div class="col">
      3 of 3
    </div>
  </div>
</div>
```

col	col	col	col
col-8			col-4

```
<div class="container">
  <div class="row">
    <div class="col">col</div>
    <div class="col">col</div>
    <div class="col">col</div>
    <div class="col">col</div>
  </div>
  <div class="row">
    <div class="col-8">col-8</div>
    <div class="col-4">col-4</div>
  </div>
</div>
```

ALIGNMENT IN ROWS

One of three columns

One of three columns

One of three columns

One of three columns

One of three columns

One of three columns

One of three columns

One of three columns

One of three columns

ALIGNMENT IN ROWS (CODE)

```
<div class="container">
  <div class="row align-items-start">
    <div class="col">
      One of three columns
    </div>
    <div class="col">
      One of three columns
    </div>
    <div class="col">
      One of three columns
    </div>
  </div>
  <div class="row align-items-center">
    <div class="col">
      One of three columns
    </div>
    <div class="col">
      One of three columns
    </div>
    <div class="col">
      One of three columns
    </div>
  </div>
  <div class="row align-items-end">
    <div class="col">
      One of three columns
    </div>
    <div class="col">
      One of three columns
    </div>
    <div class="col">
      One of three columns
    </div>
  </div>
</div>
```


PRACTICAL EXAMPLE


```
<body>
  <div class="clearfix">
    <img class="col-md-6 float-md-end mb-3 ms-md-3">
    <p>A paragraph of placeholder text. We're using it here to show the use of the clearfix class.
    We're adding quite a few meaningless phrases here to demonstrate how the columns
    interact here with the floated image.</p>
    <p>As you can see the paragraphs gracefully wrap around the floated image. Now imagine
    how this would look with some actual content in here, rather than just this boring
    placeholder text that goes on and on, but actually conveys no tangible information at.
    It simply takes up space and should not really be read.</p>

    <p>And yet, here you are, still persevering in reading this placeholder text, hoping for some
    more insights, or some hidden easter egg of content. A joke, perhaps.</p>
  </div>
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.0/d
</body>
```

A paragraph of placeholder text. We're using it here to show the use of the clearfix class. We're adding quite a few meaningless phrases here to demonstrate how the columns interact here with the floated image.

As you can see the paragraphs gracefully wrap around the floated image. Now imagine how this would look with some actual content in here, rather than just this boring placeholder text that goes on and on, but actually conveys no tangible information at. It simply takes up space and should not really be read.

And yet, here you are, still persevering in reading this placeholder text, hoping for some more insights, or some hidden easter egg of content. A joke, perhaps. Unfortunately, there's none of that here.



Responsive floated image

RESPONSIVE IMG

```
<img src='bu-logo.png' class='img-fluid' />
```



UTILITY CLASSES

▼ Utilities

API

Background

Borders

Colors

Display

Flex

Float

Interactions

Overflow

Position

Shadows

Sizing

Spacing

Text

Vertical align

Visibility

Online.

