

CSS Framework

Bootstrap



Framework

- Фреймворк - «Каркас системы»
- Создан для упрощения работы верстальщика, быстроты разработки и исключения максимально возможного числа ошибок вёрстки



CSS Frameworks

- Bootstrap (<http://getbootstrap.com/>)
- Foundation (<http://foundation.zurb.com/>)
- Bulma (<http://bulma.io/>) FlexBox framework
- Blueprint (<http://www.blueprintcss.org/>) Last updated May 14, 2011
- MaterializeCSS (<http://materializecss.com/>) (Material Design)
- Material Design <https://getmdl.io/index.html> (Material Design)
- Leaf (<http://getleaf.com/>) (Material Design)
- Semantic UI (<http://semantic-ui.com/>)
- UIKit <https://getuikit.com/1>
- Pure (<http://purecss.io/>) Last updated 2014 by Yahoo
- BaseCSS (<http://getbase.org/>) Last updated 2016.08
- Skeleton (<http://getskeleton.com/>)



<http://getbootstrap.com/>

BOOTSTRAP



Bootstrap

- Bootstrap – это свободно распространяемый front-end фреймворк для быстрого создания web-сайтов
- Bootstrap включает HTML, CSS и опционально JavaScript
- Bootstrap позволяет создавать адаптивный дизайн



Bootstrap

- Bootstrap был разработан для Twitter, начальное название Twitter Bootstrap
- Версия v1.0.0 появилась в августе 2011 года
- Текущая версия – v4.0.0
- В июне 2014 года Bootstrap стал самым популярным проектом на GitHub



Bootstrap is the most popular HTML, CSS, and JS framework in the world for building responsive, mobile-first projects on the web.

[Download Bootstrap](#)

Currently v4.0.0-alpha.6

ГОТОВЫЙ CSS и JS



[↗](#) Precompiled Bootstrap

Once downloaded, unzip the compressed folder and you'll see something like this:

```
bootstrap/
├── css/
│   ├── bootstrap.css
│   ├── bootstrap.css.map
│   ├── bootstrap.min.css
│   └── bootstrap.min.css.map
└── js/
    ├── bootstrap.js
    └── bootstrap.min.js
```

[Copy](#)

This is the most basic form of Bootstrap: precompiled files for quick drop-in usage in nearly any web project. We provide compiled CSS and JS (`bootstrap.*`), as well as compiled and minified CSS and JS (`bootstrap.min.*`). CSS [source maps](#) (`bootstrap.*.map`) are available for use with certain browsers' developer tools.

Bootstrap source code

The Bootstrap source code download includes the precompiled CSS and JavaScript assets, along with source Sass, JavaScript, and documentation. More specifically, it includes the following and more:

[Browsers & devices](#)[JavaScript](#)[Options](#)[Build tools](#)[Best practices](#)[Accessibility](#)[Layout](#)[Content](#)[Components](#)[Utilities](#)[About](#)[Migration](#)[Copy](#)



Быстрый старт

```
<!DOCTYPE html>
<html lang="ru">
  <head>
    <!-- Необходимые мета-теги всегда на первом месте -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shi
    <meta http-equiv="x-ua-compatible" content="ie=edge">

    <!-- Bootstrap CSS -->
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap,
  </head>
  <body>
    <h1>Привет, Мир!</h1>

    <!-- Сначала jQuery, затем Bootstrap JS. -->
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/2.1.4/jquery
    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-alpha.2/j:
  </body>
</html>
```



Создание документа

- Обязательно использование определения типа `<!DOCTYPE html>`
- Рекомендуется использование определения языка `<html lang="ru">`
- `<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">`

`name="viewport"` оптимизирует страницу для смартфонов

`content="width=device-width "`

область просмотра имеет такую же ширину, что и ширина устройства

`content="initial-scale=1"` начальный масштаб



Layout

РАЗМЕТКА СТРАНИЦЫ



Контейнеры

- Bootstrap требует помещения элементов страницы в контейнер
- Класс *.container* используется для адаптивного контейнера фиксированной ширины
- Класс *.container-fluid* используется для того, чтобы контейнер занимал всю ширину страницы



Контейнеры

```
<body>
```

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

```
<h1>Первая Bootstrap страница</h1>
```

```
<p>Lorem ipsum dolor sit amet...</p>
```

```
</div>
```

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

```
<h1>Первая Bootstrap страница</h1>
```

```
<p>Lorem ipsum dolor sit amet...</p>
```

```
</div>
```

```
</body>
```



```
<div class="container">  
  <!-- Content here -->  
</div>
```

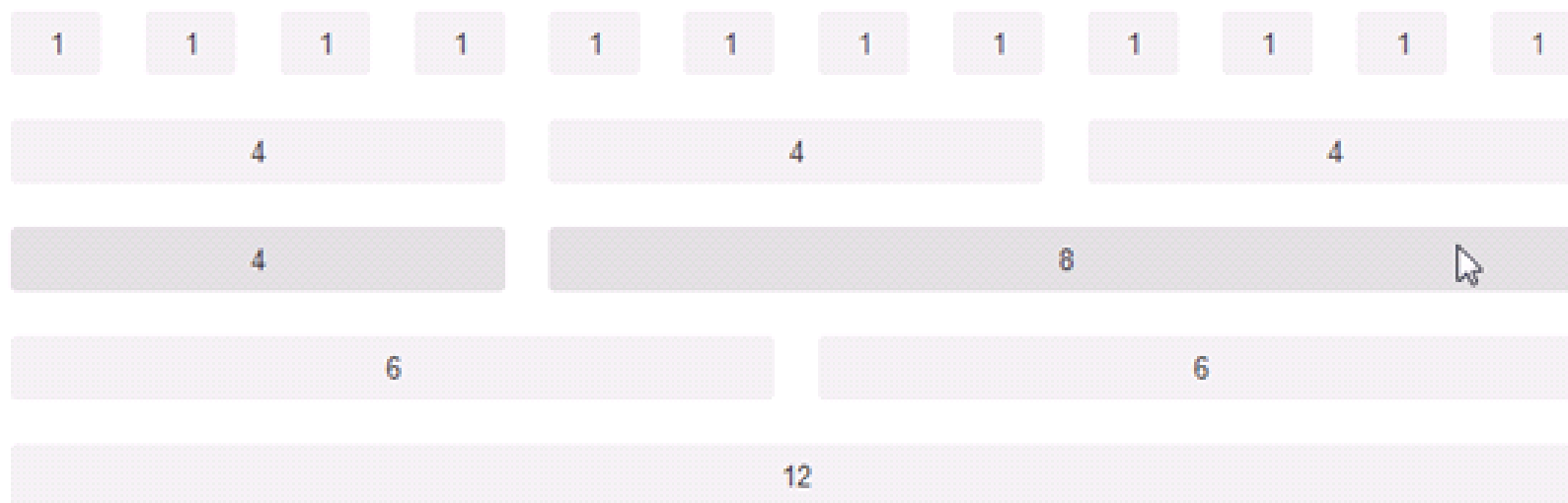
Copy



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

Copy

Сетка



12 колоночная сетка Bootstrap



Сетка

- Система разметки используется для создания макетов страниц с помощью ряда строк и столбцов, в которых размещается ваш контент.
- По умолчанию используется 12-колоночная сетка
- Строка `.row` должна быть помещены в `.container`



Сетка

- Использовать строки для создания горизонтальных группы столбцов
- Содержимое должно быть помещено в столбцах с классами `.col-***`, и только колонки могут быть непосредственными потомками строк



Контрольные точки

```
// Extra small devices (portrait phones, less than 576px)
// No media query since this is the default in Bootstrap

// Small devices (landscape phones, 576px and up)
@media (min-width: 576px) { ... }

// Medium devices (tablets, 768px and up)
@media (min-width: 768px) { ... }

// Large devices (desktops, 992px and up)
@media (min-width: 992px) { ... }

// Extra large devices (large desktops, 1200px and up)
@media (min-width: 1200px) { ... }
```

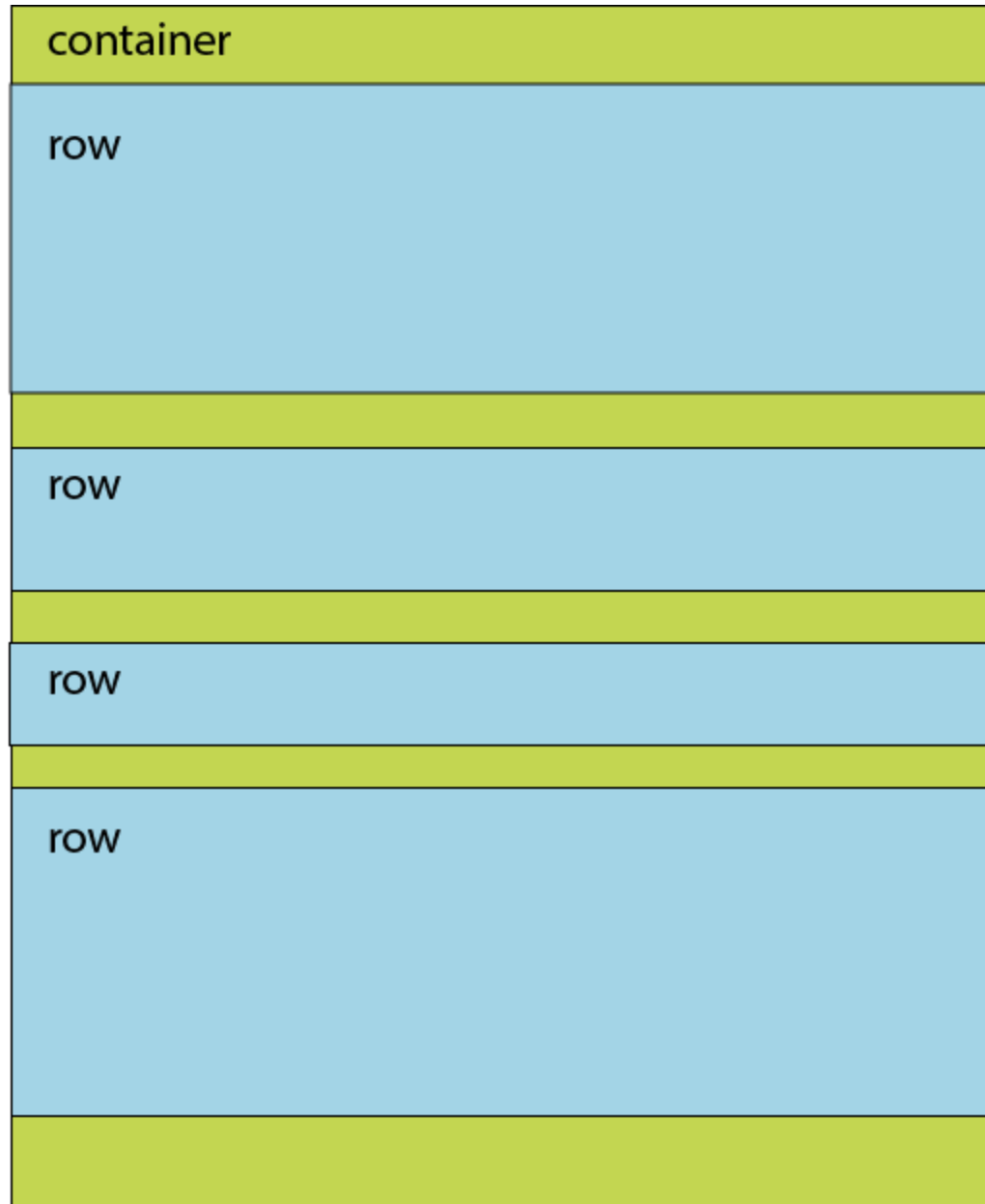
Copy

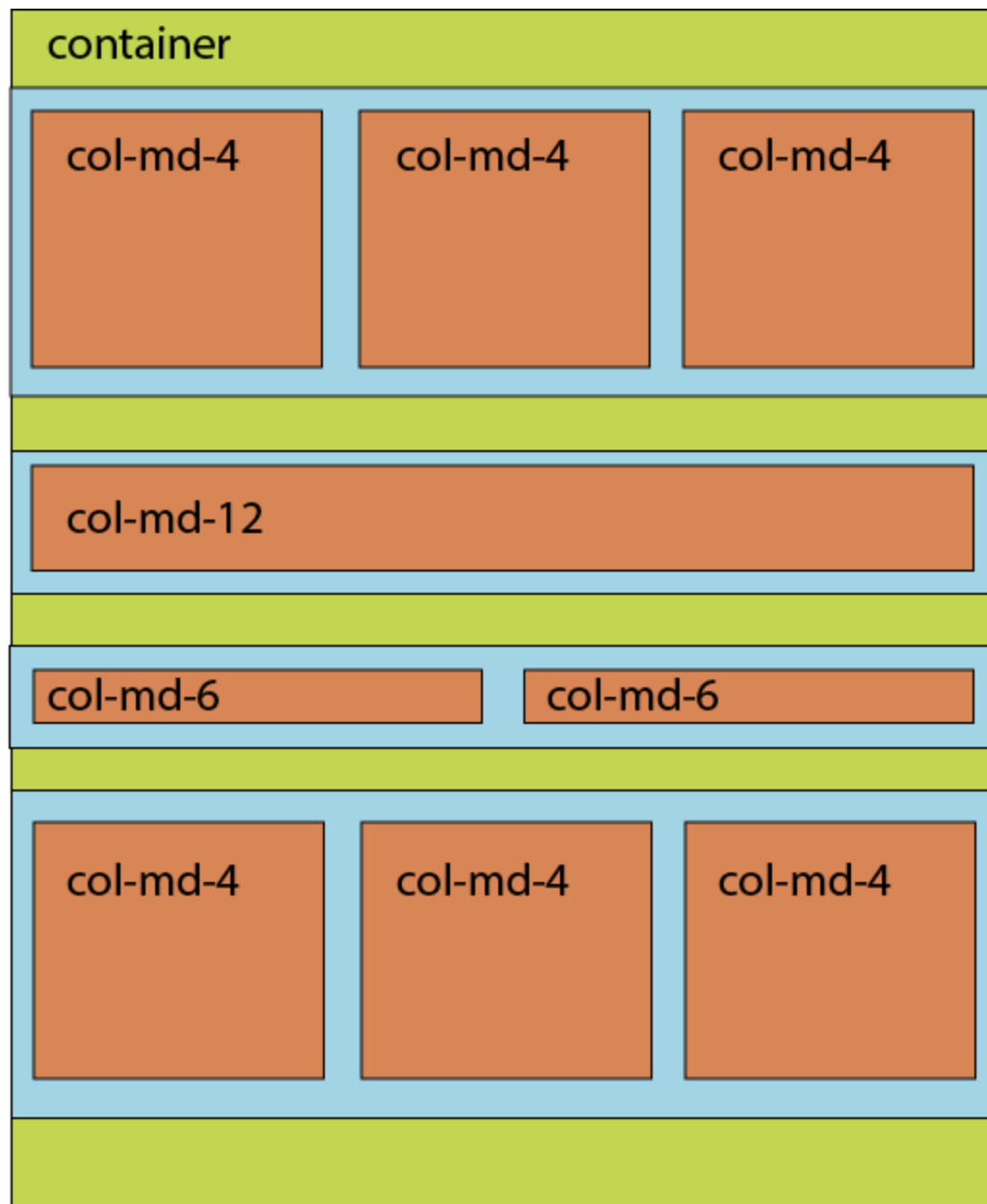


Разметка колонками

	Extra small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	Extra large ≥1200px
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				
Column ordering	Yes				

container







Разметка колонками

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

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

.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1	.col-md-1
.col-md-8								.col-md-4			
.col-md-4				.col-md-4				.col-md-4			
.col-md-6						.col-md-6					



Разметка колонками

```
<div class="row">  
  <div class="col-xs-12 col-md-8">.col-xs-12 .col-md-8</div>  
  <div class="col-xs-6 col-md-4">.col-xs-6 .col-md-4</div>  
</div>
```

.col-xs-12 .col-md-8		.col-xs-6 .col-md-4	
.col-xs-6 .col-md-4	.col-xs-6 .col-md-4	.col-xs-6 .col-md-4	
.col-xs-6		.col-xs-6	



Content

СОДЕРЖИМОЕ

Заголовки



h1. Bootstrap heading

Semibold 2.5rem (40px)

h2. Bootstrap heading

Semibold 2rem (32px)

h3. Bootstrap heading

Semibold 1.75rem (28px)

h4. Bootstrap heading

Semibold 1.5rem (24px)

h5. Bootstrap heading

Semibold 1.25rem (20px)

h6. Bootstrap heading

Semibold 1rem (16px)

```
<h1>h1. Bootstrap heading</h1>
<h2>h2. Bootstrap heading</h2>
<h3>h3. Bootstrap heading</h3>
<h4>h4. Bootstrap heading</h4>
<h5>h5. Bootstrap heading</h5>
<h6>h6. Bootstrap heading</h6>
```

Copy



Строчные элементы

You can use the mark tag to highlight text.

~~This line of text is meant to be treated as deleted text.~~

~~This line of text is meant to be treated as no longer accurate.~~

This line of text is meant to be treated as an addition to the document.

This line of text will render as underlined

This line of text is meant to be treated as fine print.

This line rendered as bold text.

This line rendered as italicized text.

Copy

```
<p>You can use the mark tag to <mark>highlight</mark> text.</p>
<p><del>This line of text is meant to be treated as deleted text.</del></p>
<p><s>This line of text is meant to be treated as no longer accurate.</s></p>
<p><ins>This line of text is meant to be treated as an addition to the document.</ins></p>
<p><u>This line of text will render as underlined</u></p>
<p><small>This line of text is meant to be treated as fine print.</small></p>
<p><strong>This line rendered as bold text.</strong></p>
<p><em>This line rendered as italicized text.</em></p>
```



Пользовательский ввод

To switch directories, type `cd` followed by the name of the directory.

To edit settings, press `ctrl + ,`

To switch directories, type `<kbd>cd</kbd>` followed by the name of the directory.

To edit settings, press `<kbd><kbd>ctrl</kbd> + <kbd>,</kbd></kbd>`

Copy

For example, `<section>` should be wrapped as inline.

For example, `<code><section></code>` should be wrapped as inline.

Copy

Изображения



```
  

```

Copy



```

```

Copy



Таблицы

```
<table class="table">
  <thead>
    <tr>
      <th scope="col">#</th>
      <th scope="col">First</th>
      <th scope="col">Last</th>
      <th scope="col">Handle</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <th scope="row">1</th>
      <td>Mark</td>
      <td>Otto</td>
      <td>@mdo</td>
    </tr>
    ...
  </tbody>
</table>
```

Таблицы



#	First	Last	Handle
1	Mark	Otto	@mdo
2	Jacob	Thornton	@fat
3	Larry	the Bird	@twitter

`.table-stripped`

#	First	Last	Handle
1	Mark	Otto	@mdo
2	Jacob	Thornton	@fat
3	Larry	the Bird	@twitter



Components

КОМПОНЕНТЫ

КНОПКИ

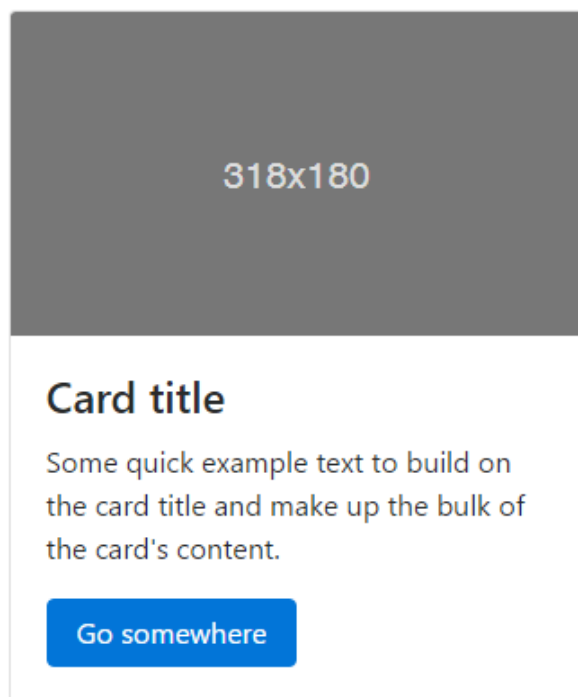


```
<button type="button" class="btn btn-primary">Primary</button>
<button type="button" class="btn btn-secondary">Secondary</button>
<button type="button" class="btn btn-success">Success</button>
<button type="button" class="btn btn-danger">Danger</button>
<button type="button" class="btn btn-warning">Warning</button>
<button type="button" class="btn btn-info">Info</button>
<button type="button" class="btn btn-light">Light</button>
<button type="button" class="btn btn-dark">Dark</button>

<button type="button" class="btn btn-link">Link</button>
```

Copy

Карточки



```
<div class="card" style="width: 20rem;">
  
  <div class="card-block">
    <h4 class="card-title">Card title</h4>
    <p class="card-text">Some quick example text to build on the card title and make up th
    <a href="#" class="btn btn-primary">Go somewhere</a>
  </div>
</div>
```

Copy

СПИСКИ



Cras justo odio
Dapibus ac facilisis in
Morbi leo risus
Porta ac consectetur ac
Vestibulum at eros

```
<ul class="list-group">  
  <li class="list-group-item active">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>
```

Copy

Карусель



```
<div class="carousel-item">
  
  <div class="carousel-caption d-none d-md-block">
    <h3>...</h3>
    <p>...</p>
  </div>
</div>
```

Copy

Сообщения



Well done! You successfully read this important alert message.

Heads up! This alert needs your attention, but it's not super important.

Warning! Better check yourself, you're not looking too good.

Oh snap! Change a few things up and try submitting again.

Copy

```
<div class="alert alert-success" role="alert">
  <strong>Well done!</strong> You successfully read this important alert message.
</div>
<div class="alert alert-info" role="alert">
  <strong>Heads up!</strong> This alert needs your attention, but it's not super important
</div>
<div class="alert alert-warning" role="alert">
  <strong>Warning!</strong> Better check yourself, you're not looking too good.
</div>
<div class="alert alert-danger" role="alert">
  <strong>Oh snap!</strong> Change a few things up and try submitting again.
</div>
```



Меню навигации

Active Link Link Disabled

Copy

```
<ul class="nav">
  <li class="nav-item">
    <a class="nav-link active" href="#">Active</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 disabled" href="#">Disabled</a>
  </li>
</ul>
```



Хлебные крошки

Home / Library / Data / Bootstrap

```
<nav class="breadcrumb">
  <a class="breadcrumb-item" href="#">Home</a>
  <a class="breadcrumb-item" href="#">Library</a>
  <a class="breadcrumb-item" href="#">Data</a>
  <span class="breadcrumb-item active">Bootstrap</span>
</nav>
```

Copy

Прогресс



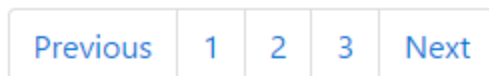
25%

```
<div class="progress">  
  <div class="progress-bar" role="progressbar" style="width: 25%;" aria-valuenow="25" aria-valu  
</div>
```

Copy



Нумерация страниц



```
<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>
```

Copy



Bootstrap 3 Tutorial

BS HOME

- [BS Get Started](#)
- [BS Grid Basic](#)
- [BS Typography](#)
- [BS Tables](#)
- [BS Images](#)
- [BS Jumbotron](#)
- [BS Buttons](#)
- [BS Button Groups](#)
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- [BS Forms](#)
- [BS Inputs](#)
- [BS Inputs 2](#)
- [BS Input Sizing](#)
- [BS Carousel](#)

Bootstrap Grids



Bootstrap 3 Tutorial

[« W3Schools Home](#)[Next Chapter »](#)

Bootstrap is the most popular HTML, CSS, and JavaScript framework for developing responsive, mobile-first web sites.

Bootstrap is completely free to download and use!

[Start learning Bootstrap 3 now!](#)

Try it Yourself Examples

This Bootstrap tutorial contains hundreds of Bootstrap examples.

With our online editor, you can edit the code, and click on a button to view the result.