



آموزش BOOTSTRAP

رضا آواره

مباحث

HTML •

Bs چیست

- Bootstrap is a free front-end framework for faster and easier web development
- Bootstrap includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many other, as well as optional JavaScript plugins
- Bootstrap also gives you the ability to easily create responsive designs
-

BS

فواید

- **Easy to use.** Anybody with just basic knowledge of HTML and CSS can start using Bootstrap
- **Responsive features.** Bootstrap's responsive CSS adjusts to phones, tablets, and desktops
- **Mobile-first approach.** In Bootstrap, mobile-first styles are part of the core framework
- **Browser compatibility.** Bootstrap 4 is compatible with all modern browsers [Chrome, Firefox, Internet Explorer 10+, Edge, Safari, and Opera]

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روش های استفاده

- Download Bootstrap 4 from getbootstrap.com
 - <https://getbootstrap.com/>
- Include Bootstrap 4 from a CDN
- MaxCDN:
- `<!-- Latest compiled and minified CSS -->`
`<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"`
`>`
- `<!-- jQuery library -->`
`<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>`
- `<!-- Popper JS -->`
`<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>`
- `<!-- Latest compiled JavaScript -->`
`<script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>`

BS

Start...

- `<meta name="viewport" content="width=device-width, initial-scale=1">`
-
- **Containers**
 - The `.container` class provides a responsive fixed width container
 - The `.container-fluid` class provides a full width container, spanning the entire width of the viewport
- fluid صد در صد طول صفحه رو پوشش میده
- اما Container فقط تا ۱۱۴۰px رو پوشش میده
- یعنی ما کسیمم ۱۱۴۰px طول رو در بر میگیره
- اما fluid به صورت ۱۰۰٪ کار میکنه یعنی اینکه اگه یه مانیتور ۱۹۲۰ در ۱۲۰۰ باشه container-fluid شما ۱۹۲۰ تا میشه
- اما container شما بیشتر از ۱۱۴۰ نمیشه

BS

Container...

- `.container`

	Extra small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	Extra large ≥1200px
max-width	100%	540px	720px	960px	1140px

- `.container-fluid` [width is always 100%]

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Responsive Containers

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Class	Extra small <576px	Small ≥576px	Medium ≥768px	Large ≥992px	Extra large ≥1200px
<code>.container-sm</code>	100%	540px	720px	960px	1140px
<code>.container-md</code>	100%	100%	720px	960px	1140px
<code>.container-lg</code>	100%	100%	100%	960px	1140px
<code>.container-xl</code>	100%	100%	100%	100%	1140px

Grids

- Bs صفحه را به ۱۲ ستون تقسیم میکند...
- دقت کنید مجموع ستون ها ۱۲ باشد...

BS

span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1
span 4				span 4				span 4			
span 4				span 8							
span 6						span 6					
span 12											

Grid Classes

- .col- [extra small devices - screen width less than 576px]
- .col-sm- [small devices - screen width equal to or greater than 576px]
- .col-md- [medium devices - screen width equal to or greater than 768px]
- .col-lg- [large devices - screen width equal to or greater than 992px]
- .col-xl- [xlarge devices - screen width equal to or greater than 1200px]

• Col ها داخل row

- <!-- Control the column width, and how they should appear on different devices -->

```
<div class="row">  
  <div class="col-x-x"></div>  
  <div class="col-x-x"></div>  
</div>  
<div class="row">  
  <div class="col-x-x"></div>  
  <div class="col-x-x"></div>  
  <div class="col-x-x"></div>  
</div>
```

- <!-- Or let Bootstrap automatically handle the layout -->

```
<div class="row">  
  <div class="col"></div>  
  <div class="col"></div>  
  <div class="col"></div>  
</div>
```

BS

مثال ستون های مساوی

```
<div class="row"> •  
  <div class="col">.col</div>  
  <div class="col">.col</div>  
  <div class="col">.col</div>  
</div>
```

BS

Display Headings & Headings

- Headings : H1:H6

• Display برای سایز بزرگتر heading

- `<h1 class="display-1">Display 1</h1>`
- `<h1 class="display-2">Display 2</h1>`
- `<h1 class="display-3">Display 3</h1>`
- `<h1 class="display-4">Display 4</h1>`

BS

text

Class	Description
<code>.font-weight-bold</code>	Bold text
<code>.font-weight-bolder</code>	Bolder text
<code>.font-italic</code>	Italic text
<code>.font-weight-light</code>	Light weight text
<code>.font-weight-lighter</code>	Lighter weight text
<code>.font-weight-normal</code>	Normal text
<code>.lead</code>	Makes a paragraph stand out
<code>.small</code>	Indicates smaller text (set to 80% of the size of the parent)
<code>.text-left</code>	Indicates left-aligned text
<code>.text-*-left</code>	Indicates left-aligned text on small, medium, large or xlarge screens

BS

<code>.text-break</code>	Prevents long text from breaking layout
<code>.text-center</code>	Indicates center-aligned text
<code>.text-*-center</code>	Indicates center-aligned text on small, medium, large or xlarge screens
<code>.text-decoration-none</code>	Removes the underline from a link
<code>.text-right</code>	Indicates right-aligned text
<code>.text-*-right</code>	Indicates right-aligned text on small, medium, large or xlarge screens
<code>.text-justify</code>	Indicates justified text
<code>.text-monospace</code>	Monospaced text
<code>.text-nowrap</code>	Indicates no wrap text
<code>.text-lowercase</code>	Indicates lowercased text
<code>.text-reset</code>	Resets the color of a text or a link (inherits the color from its parent)



<code>.text-uppercase</code>	Indicates uppercased text
<code>.text-capitalize</code>	Indicates capitalized text
<code>.initialism</code>	Displays the text inside an <code><abbr></code> element in a slightly smaller font size
<code>.list-unstyled</code>	Removes the default list-style and left margin on list items (works on both <code></code> and <code></code>). This class only applies to immediate children list items (to remove the default list-style from any nested lists, apply this class to any nested lists as well)
<code>.list-inline</code>	Places all list items on a single line (used together with <code>.list-inline-item</code> on each <code></code> elements)
<code>.pre-scrollable</code>	Makes a <code><pre></code> element scrollable

رنگ ها

- `.text-muted`, `.text-primary`, `.text-success`, `.text-info`, `.text-warning`, `.text-danger`, `.text-secondary`, `.text-white`, `.text-dark`, `.text-body` (default body color/often black) and `.text-light`

- رنگ ها اگر برای لینک استفاده شود در هاور کمی پررنگتر می شود...
- `.text.black.50` or `.text.white.50`

Black text with 50% opacity on white background

White text with 50% opacity on black background

BS

رنگ های پس زمینه

- `.bg-primary`, `.bg-success`, `.bg-info`, `.bg-warning`, `.bg-danger`, `.bg-secondary`, `.bg-dark` and `.bg-light`

BS

Table

- `<table class="table">`
- یک استایل جزئی به جداول (تمام عرض ، padding ، جداکننده افقی و..)
- `<table class="table table-striped">`
- حالت تیره و روشن کردن سطر ها
- `.table-bordered`
- حاشیه اطراف جدول و ستون ها
- `.table-hover`
- با هاور ردیفها خاکستری
- `<table class="table table-dark">`
- `<table class="table table-dark table-striped">`
- تیره و یک در میان

BS

Table

`<table class="table table-dark table-hover">` •
`.table-borderless` •
`<tr class="table-info">` •
`<tr class="table-danger">` •
`<tr class="table-warning">` •
`<tr class="table-active">` •

• رنگ هدر

`<table class="table">` •

`<thead class="thead-dark/light">`

`.table-sm` •

• نصف کردن padding

`.table-responsive` •

Class	Screen width
<code>.table-responsive-sm</code>	<code>< 576px</code>
<code>.table-responsive-md</code>	<code>< 768px</code>
<code>.table-responsive-lg</code>	<code>< 992px</code>
<code>.table-responsive-xl</code>	<code>< 1200px</code>

BS

Images

- ``
- ``
- ``

Rounded Corners:



Circle:



Thumbnail:



BS

Image float

class="float-left" •

class="float-right" •

BS



وسط گذاشتن عکس

class="mx-auto d-block" •

BS

Mx-auto •

Margin:auto •

D.block •

• بلاک کردن عکس

تمام عرض صفحه

class="img-fluid" •

max-width: 100%; •

height: auto; •

BS

Jumbotron

- فضای بزرگ خاکستری برای توجه بیشتر

BS

- `<div class="jumbotron">`
 `<h1>....</h1>`
 `<p>...</p>`
 `</div>`

- تمام عرض

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

Alerts

Success! This alert box indicates a successful or positive action.



Info! This alert box indicates a neutral informative change or action.



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



Danger! This alert box indicates a dangerous or potentially negative action.



Primary! This alert box indicates an important action.



Secondary! This alert box indicates a less important action.



Dark! Dark grey alert box.



Light! Light grey alert box.



- `<div class="alert alert-success">`
 `Success!` Indicates a successful or positive action.
 `</div>`

BS

اضافی درباره alert

• دکمه بستن

- `<div class="alert alert-success alert-dismissible">`
 `<button type="button" class="close" data-dismiss="alert">×</button>`
 `Success!` Indicates a successful or positive action.
 `</div>`

• انیمیشن بسته شدن

- `<div class="alert alert-danger alert-dismissible fade show">`

• ارسال لینک در alert

- `<div class="alert alert-success">`
 `Success!` You should `read this message`.
 `</div>`

BS

button



- `<button type="button" class="btn">Basic</button>`
- `<button type="button" class="btn btn-primary">Primary</button>`
- `Link Button`
- `<button type="button" class="btn btn-info">Button</button>`
- `<input type="button" class="btn btn-info" value="Input Button">`
- `<input type="submit" class="btn btn-info" value="Submit Button">`



- `<button type="button" class="btn btn-outline-primary">Primary</button>`
- `btn-lg`
- `btn-sm`
 - بزرگ یا کوچک کردن دکمه

BS

button

• تمام عرض

• `<button type="button" class="btn btn-primary btn-block">Full-Width Button</button>`

• Btn-block

• بلاک کردن

• Active/Disabled Buttons

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

BS

دکمه لودینگ



- `<button class="btn btn-primary">

</button>`
- `<button class="btn btn-primary">

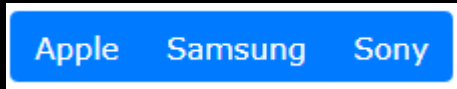
 Loading..
</button>`
- `<button class="btn btn-primary" disabled>

 Loading..
</button>`
- `<button class="btn btn-primary" disabled>

 Loading..
</button>`

BS

Button Groups



- `<div class="btn-group">`
 `<button type="button" class="btn btn-primary">Apple</button>`
 `<button type="button" class="btn btn-primary">Samsung</button>`
 `<button type="button" class="btn btn-primary">Sony</button>`
 `</div>`

- `btn-group-lg`
- `btn-group-sm`

• سائز دکمه ها

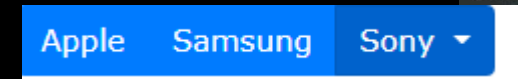
• دکمه های افقی

• `<div class="btn-group-vertical">`

BS

Button Groups

- ```
<div class="btn-group">
 <button type="button" class="btn btn-primary">Apple</button>
 <button type="button" class="btn btn-primary">Samsung</button>
 <div class="btn-group">
 <button type="button" class="btn btn-primary dropdown-toggle" data-toggle="dropdown">
 Sony
 </button>
 <div class="dropdown-menu">
 Tablet
 Smartphone
 </div>
 </div>
</div>
```
- ```
<div class="btn-group">
  <button type="button" class="btn btn-primary">Sony</button>
  <button type="button" class="btn btn-primary dropdown-toggle dropdown-toggle-split" data-
toggle="dropdown">
    <span class="caret"></span>
  </button>
  <div class="dropdown-menu">
    <a class="dropdown-item" href="#">Tablet</a>
    <a class="dropdown-item" href="#">Smartphone</a>
  </div>
</div>
```



BS

Badge

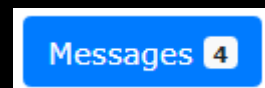
- اطلاعات اضافی مانند تعداد پیام
- `badge badge-warning`



- `badge badge-pill badge-danger`



- داخل یک المان



- ```
<button type="button" class="btn btn-primary">
 Messages 4
</button>
```

BS

# Progress Bars

- `<div class="progress">`  
  `<div class="progress-bar" style="width:70%">text</div>`  
`</div>`

- Progress اصلی و داخل ان `progress-bar` به همراه درصد عرض
- Text در صورتی که مقداری داشته باشه داخل نوار می نویسد
- تغییر رنگ از کلاس `bg-secondary` یا هر رنگ دخواه
- نوار های زبرا از `progress-bar-striped`
- نوار زبرا متحرک `progress-bar-striped progress-bar-animated`
- برای تغییر ارتفاع ، `height` در `Progress` و `progress-bar` را مشابه میگذاریم

- چند نوار

- `<div class="progress">`  
  `<div class="progress-bar bg-success" style="width:40%">`  
    Free Space  
  `</div>`  
  `<div class="progress-bar bg-warning" style="width:10%">`  
    Warning  
  `</div>`  
  `<div class="progress-bar bg-danger" style="width:20%">`  
    Danger  
  `</div>`  
`</div>`

BS

# Spinners



`<div class="spinner-border"></div>` •

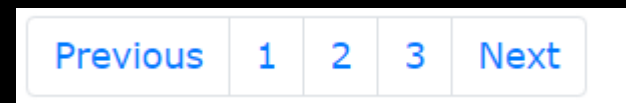
BS

- رنگی "spinner-border text-muted"
- حالت دایره رشدی "spinner-grow text-muted"
- کوچکتر شدن spinner-border spinner-border-sm



# Pagination

- ```
<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>
```



BS

- کلاس Active به هر li برای صفحه فعال
- ```
<ul class="pagination pagination-lg">
```

 بزرگتر یا کوچکتر شدن
- `justify-content-center` وسط چین
- `justify-content-end` راست چین

# Breadcrumbs

- `<ul class="breadcrumb">`  
  `<li class="breadcrumb-item"><a href="#">Photos</a></li>`  
  `<li class="breadcrumb-item"><a href="#">Summer 2017</a></li>`  
  `<li class="breadcrumb-item"><a href="#">Italy</a></li>`  
  `<li class="breadcrumb-item active">Rome</li>`  
`</ul>`

Photos / Summer 2017 / Italy / Rome

BS

# list

- `<ul class="list-group">`  
  `<li class="list-group-item">First item</li>`  
  `<li class="list-group-item">Second item</li>`  
  `<li class="list-group-item">Third item</li>`  
`</ul>`

• لیستی که هر li یک لینک باشد

- `<div class="list-group">`  
  `<a href="#" class="list-group-item list-group-item-action">First item</a>`  
  `<a href="#" class="list-group-item list-group-item-action">Second item</a>`  
  `<a href="#" class="list-group-item list-group-item-action">Third item</a>`  
  `</div>`

• `<ul class="list-group list-group-flush">` حذف border ها

• `<ul class="list-group list-group-horizontal">` لیست افقی

• `<li class="list-group-item list-group-item-success">Success` Item های رنگی  
  `item</li>`

BS

# Cards

• یک فضا با ... padding, margin

- `<div class="card">`
  - `<div class="card-header">Header</div>`
  - `<div class="card-body">Content</div>`
  - `<div class="card-footer">Footer</div>`
  - `</div>`

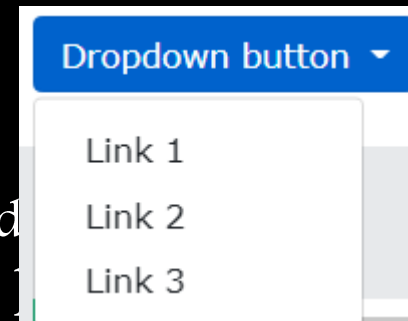
• شروع با card و هر بخش....

- `.card-title`
- `.card-text` از آخرین p فاصله پایین حذف می کند
- `.card-link` حالت لینک
- `.card-img-top` برای `img` بالا یا پایین `card` ( خارج از `card-body` بنویسیم)
- `.stretched-link` به `link` می‌دهیم و کل `card` کلیک می شود
- `<div class="card-img-overlay">` بجای `body` و متن روی عکس
- `<div class="card-columns">` قبل `card` و هر ردیف ۳ کارت می شود
- `.card-deck` قبل کلاس `card` و بر اساس کارت ها چیدمان می کند
- `.card-group` مثل `card-deck` ولی فاصله ندارد

BS

# Dropdowns

- `<div class="dropdown">`  
  `<button type="button" class="btn btn-primary dropdown-toggle" data-`  
  `toggle="dropdown">`  
    Dropdown button  
  `</button>`  
  `<div class="dropdown-menu">`  
    `<a class="dropdown-item" href="#">Link 1</a>`  
    `<a class="dropdown-item" href="#">Link 2</a>`  
    `<a class="dropdown-item" href="#">Link 3</a>`  
  `</div>`  
`</div>`



BS

- `<div class="dropdown">` جداکننده افقی
- `<div class="dropdown">` هدر
- `<div class="dropdown dropdown-right">` برای باز شدن چپ یا راست
- `<div class="dropdown-menu dropdown-menu-right">` راست ولی داخل
- `<div class="dropup">` باز شدن بالا

# collapse

• جمع شدن قسمت

• `data-toggle="collapse"`

• `href="#demo"` به `id` مورد نظر

BS

• `<a href="#demo" data-toggle="collapse">Collapsible</a>`

`<div id="demo" class="collapse">`

Lorem ipsum dolor text....

`</div>`

• پیشفرض `hidden` هست و برای نمایش `show">`



# Accordion

BS

```
• <div id="accordion">
 <div class="card">
 <div class="card-header">

 Collapsible Group Item #1

 </div>
 <div id="collapseOne" class="collapse show" data-parent="#accordion">
 <div class="card-body">
 Lorem ipsum..
 </div>
 </div>
 </div>
 <div class="card">
 <div class="card-header">

 Collapsible Group Item #2

 </div>
 <div id="collapseTwo" class="collapse" data-parent="#accordion">
 <div class="card-body">
 Lorem ipsum..
 </div>
 </div>
 </div>
</div>
```

**data-parent** تا فقط یکی باز بماند

# Navs

```
<ul class="nav">
 <li class="nav-item">
 Link

 <li class="nav-item">
 Link

 <li class="nav-item">
 Link

 <li class="nav-item">
 Disabled


```

• کلاس nav به ul و nav-item به li و nav-link به a

• وسط نویسی یا راست نویسی

• <ul class="nav justify-content-center">

• <ul class="nav justify-content-end">

• منو عمودی

• <ul class="nav flex-column">

• [https://www.w3schools.com/bootstrap4/bootstrap\\_navs.asp](https://www.w3schools.com/bootstrap4/bootstrap_navs.asp)

• [https://www.w3schools.com/bootstrap4/bootstrap\\_navbar.asp](https://www.w3schools.com/bootstrap4/bootstrap_navbar.asp)

BS

# Forms

- `form-control` برای `input` ها : تمام عرض
- `form-group` برای دسته `label` , `input` جهت حاشیه زیبا
- `form-inline` برای `form` باعث می شود تمام عرض نشود (برای `px576` تمام عرض می شود)
- قالب بندی با `col` , `row`
- `form-row` بجای

BS

- `form-control-sm/lg` Input های بزرگتر یا کوچکتر
- `<input type="range" class="form-control-range">`
- `<input type="file" class="form-control-file border">`

# Forms

## • radiobutton /Checkbox

- ```
<div class="form-check">  
  <label class="form-check-label">  
    <input type="checkbox/radio" class="form-check-input" value="">Option 2  
  </label>  
</div>
```

• اگر گزینه ها در ۱ راستا

- ```
<div class="form-check-inline">
```

BS

# Forms

Drop down •

```
• <div class="form-group">
 <label for="sel1">Select list:</label>
 <select class="form-control" id="sel1">
 <option>1</option>
 <option>2</option>
 <option>3</option>
 <option>4</option>
 </select>
</div>
```

BS

# اعتبار سنجی فرم

• در قسمت form

• was-validated

• قبل از submit

BS

- `<form action="/action_page.php" class="was-validated">`  
  `<div class="form-group">`  
    `<label for="uname">Username:</label>`  
    `<input type="text" class="form-control" id="uname" placeholder="Enter`  
    `username" name="uname" required>`  
    `<div class="valid-feedback">Valid.</div>`  
    `<div class="invalid-feedback">Please fill out this field.</div>`  
  `</div>`



# اعتبار سنجی فرم

• needs.validation

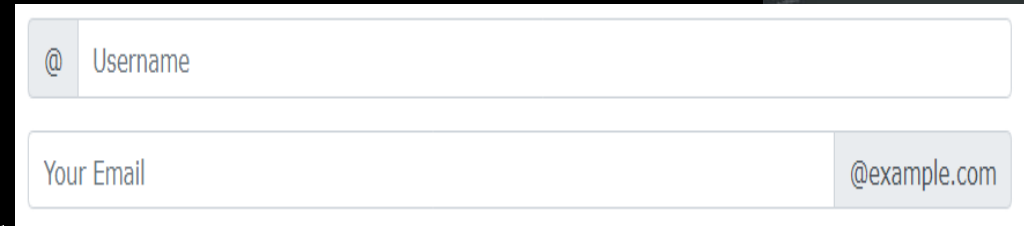
• بعد از submit (نیاز به jquery)

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- `<form action="/action_page.php" class="needs-validation" novalidate>`  
    `<div class="form-group">`  
        `<label for="uname">Username:</label>`  
        `<input type="text" class="form-control" id="uname" placeholder="Enter username" name="uname" required>`  
        `<div class="valid-feedback">Valid.</div>`  
        `<div class="invalid-feedback">Please fill out this field.</div>`  
    `</div>`

# Group input

- `<form>`
  - `<div class="input-group mb-3">`
    - `<div class="input-group-prepend">`
      - `<span class="input-group-text">@</span>`
      - `</div>`
      - `<input type="text" class="form-control" placeholder="Username">`
      - `</div>`
    - `<div class="input-group mb-3">`
      - `<input type="text" class="form-control" placeholder="Your Email">`
      - `<div class="input-group-append">`
        - `<span class="input-group-text">@example.com</span>`
        - `</div>`
      - `</div>`
    - `</form>`



Visual representation of the HTML code above, showing a username input field with an '@' icon and an email input field with a text box and '@example.com' append.

BS

[https://www.w3schools.com/bootstrap4/bootstrap\\_form •  
s\\_custom.asp](https://www.w3schools.com/bootstrap4/bootstrap_form_custom.asp)

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# Carousel

- [https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs\\_carousel2](https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_carousel2)

Class	Description
<code>.carousel</code>	Creates a carousel
<code>.carousel-indicators</code>	Adds indicators for the carousel. These are the little dots at the bottom of each slide (which indicates how many slides there are in the carousel, and which slide the user are currently viewing)
<code>.carousel-inner</code>	Adds slides to the carousel
<code>.carousel-item</code>	Specifies the content of each slide
<code>.carousel-control-prev</code>	Adds a left (previous) button to the carousel, which allows the user to go back between the slides
<code>.carousel-control-next</code>	Adds a right (next) button to the carousel, which allows the user to go forward between the slides
<code>.carousel-control-prev-icon</code>	Used together with <code>.carousel-control-prev</code> to create a "previous" button
<code>.carousel-control-next-icon</code>	Used together with <code>.carousel-control-next</code> to create a "next" button
<code>.slide</code>	Adds a CSS transition and animation effect when sliding from one item to the next. Remove this class if you do not want this effect

BS

# Modal

- پنجره روی صفحه!!!
- دکمه تعریف می کنیم و id به modal

BS

- تعریف modal با هدر و بدنه و فوتر

```
<!-- Button to Open the Modal -->
<button type="button" class="btn btn-primary" data-toggle="modal" data-target="#myModal">
 Open modal
</button>

<!-- The Modal -->
<div class="modal" id="myModal">
 <div class="modal-dialog">
 <div class="modal-content">

 <!-- Modal Header -->
 <div class="modal-header">
 <h4 class="modal-title">Modal Heading</h4>
 <button type="button" class="close" data-dismiss="modal">×</button>
 </div>

 <!-- Modal body -->
 <div class="modal-body">
 Modal body..
 </div>

 <!-- Modal footer -->
 <div class="modal-footer">
 <button type="button" class="btn btn-danger" data-dismiss="modal">Close</button>
 </div>

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

# Modal

- افکت باز و بسته شدن  
`<div class="modal fade"></div>` •
- سایز  
`<div class="modal-dialog modal-sm">` •
- وسط صفحه باز شود  
`<div class="modal-dialog modal-dialog-centered">` •
- اسکرول شدن  
`<div class="modal-dialog modal-dialog-scrollable">` •

BS



# Tooltip

- توضیح با هاور
- در انتهای body

BS

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

- ```
Hover
```

• Popover

- بجای قلمزها popover

- ```
data-trigger="hover"
```

- با هاور باز و بسته شود

- ```
data-trigger="focus"
```

- با کلیک باز و کلیک بیرون بسته شود

# Toast

• توضیح...

- ```
<script>
$(document).ready(function(){
    $('.toast').toast('show');
});
</script>
```
- ```
<div class="toast">
 <div class="toast-header">
 Toast Header
 </div>
 <div class="toast-body">
 Some text inside the toast body
 </div>
</div>
```

• مخفی شدن خود کار  
• `data-autohide="false"`

BS

# Scrollspy

• تغییر لینک فعال با اسکرول

- `<body data-spy="scroll" data-target=".navbar" data-offset="50">`

BS

# flex

- برای چیدمان بدون float

- [https://www.w3schools.com/bootstrap4/bootstrap\\_flex.asp](https://www.w3schools.com/bootstrap4/bootstrap_flex.asp)

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# امکانات خاص

[https://www.w3schools.com/bootstrap4/bootstrap\\_utilities.asp](https://www.w3schools.com/bootstrap4/bootstrap_utilities.asp) •

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[https://www.w3schools.com/bootstrap4/bootstrap\\_media\\_objects.asp](https://www.w3schools.com/bootstrap4/bootstrap_media_objects.asp) •

[https://www.w3schools.com/bootstrap4/bootstrap\\_filters.asp](https://www.w3schools.com/bootstrap4/bootstrap_filters.asp) •