



Desenvolvimento de Software para WEB

Aula 6 - Bootstrap

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Introdução

- Bootstrap é um framework front-end para um desenvolvimento web mais rápido e fácil
- O Bootstrap inclui modelos de design baseados em HTML e CSS para tipografia, formulários, botões, tabelas, navegação, modais, carrosséis de imagens, ...
- O Bootstrap também oferece a capacidade de criar facilmente designs responsivos

Instalação - 1ª forma

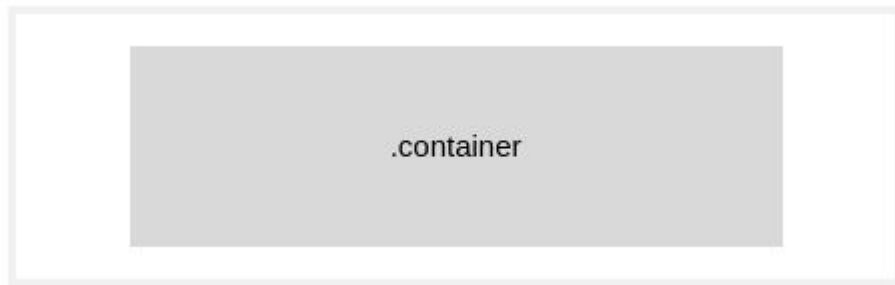
```
<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css" >
  <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js" ></script
>
  <script
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"
></script>
  <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js" ></scr
ipt>
```

Instalação - 2ª forma

```
anderson@anderson:~/Área de Trabalho/aula-bootstrap$ tree
.
├── css
│   └── bootstrap.min.css
└── js
    ├── bootstrap.min.js
    ├── jquery.min.js
    └── popper.min.js
```

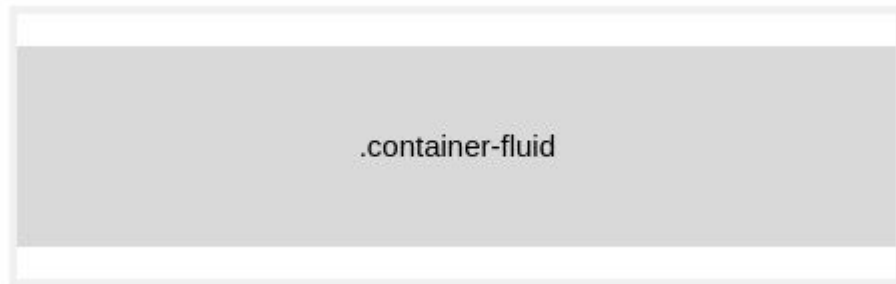
container

```
<div class="container">  
  <h1>My First Bootstrap Page</h1>  
  <p>This is some text.</p>  
</div>
```



container-fluid

```
<div class="container-fluid">  
  <h1>My First Bootstrap Page</h1>  
  <p>This is some text.</p>  
</div>
```



Grids

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											

Três colunas iguais

```
<div class="row">  
  <div class="col" style="background-color:red">.col</div>  
  <div class="col" style="background-color:blue">.col</div>  
  <div class="col" style="background-color:green">.col</div>  
</div>
```


Três colunas responsivas

```
<div class="row">  
  <div class="col-sm-4" style="background-color:red">.col-sm-3</div>  
  <div class="col-sm-4" style="background-color:red">.col-sm-3</div>  
  <div class="col-sm-2" style="background-color:red">.col-sm-3</div>  
  <div class="col-sm-2" style="background-color:green">.col-sm-3</div>  
</div>
```

Tipografia

- Bootstrap 4 usa um tamanho de fonte padrão de 16px e sua altura de linha é 1,5.
- A família de fontes padrão é "Helvetica Neue", Helvetica, Arial, sans-serif.
- Além disso, todos os elementos `<p>` possuem `margin-top: 0` e `margin-bottom: 1rem` (16px por padrão).

Tipografia

h1 Bootstrap heading (2.5rem = 40px)

h2 Bootstrap heading (2rem = 32px)

h3 Bootstrap heading (1.75rem = 28px)

h4 Bootstrap heading (1.5rem = 24px)

h5 Bootstrap heading (1.25rem = 20px)

h6 Bootstrap heading (1rem = 16px)

Tipografia

```
<p class="text-capitalize">hello World</p>
```

```
<p class="text-uppercase">hello World</p>
```

```
<p class="text-center">hello World</p>
```

```
<p class="text-right">hello World</p>
```

```
<p class="text-left">hello World</p>
```

Cores - Texto

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

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

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

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

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

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

`<p class="text-secondary">Secondary text.</p>`

`<p class="text-dark">This text is dark grey.</p>`

`<p class="text-body">Default body color (often black).</p>`

`<p class="text-light">This text is light grey (on white background).</p>`

`<p class="text-white">This text is white (on white background).</p>`

Cores - Background

```
<p class="bg-primary text-white">This text is important.</p>
<p class="bg-success text-white">This text indicates success.</p>
<p class="bg-info text-white">This text represents some information.</p>
<p class="bg-warning text-white">This text represents a warning.</p>
<p class="bg-danger text-white">This text represents danger.</p>
<p class="bg-secondary text-white">Secondary background color.</p>
<p class="bg-dark text-white">Dark grey background color.</p>
<p class="bg-light text-dark">Light grey background color.</p>
```

Tabelas

```
<table class="table">
  <thead>
    <tr>
      <th>Firstname</th>
      <th>Lastname</th>
      <th>Email</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <td>John</td>
      <td>Doe</td>
      ...
```

```
    ...
    <td>john@example.com</td>
      </tr>
    <tr>
      <td>Mary</td>
      <td>Moe</td>
      <td>mary@example.com</td>
    </tr>
  </tbody>
</table>
```

Tabelas

- table-striped
- table-bordered
- table-borderless
- table-hover
- ...

Tabelas - Cores

Class	Description
<code>.table-primary</code>	Blue: Indicates an important action
<code>.table-success</code>	Green: Indicates a successful or positive action
<code>.table-danger</code>	Red: Indicates a dangerous or potentially negative action
<code>.table-info</code>	Light blue: Indicates a neutral informative change or action
<code>.table-warning</code>	Orange: Indicates a warning that might need attention
<code>.table-active</code>	Grey: Applies the hover color to the table row or table cell
<code>.table-secondary</code>	Grey: Indicates a slightly less important action
<code>.table-light</code>	Light grey table or table row background
<code>.table-dark</code>	Dark grey table or table row background

Imagens

- rounded
- rounded-circle
- img-thumbnail
- float-left
- float-right
- mx-auto d-block

- **Responsive**
 - img-fluid

Jumbotron

```
<div class="jumbotron">  
  <h1>Bootstrap Tutorial</h1>  
  <p>Bootstrap is the most popular HTML, CSS... </p>  
</div>
```

Alerta

```
<div class="alert alert-success">
```

```
  <strong>Success!</strong> Indicates a successful or positive action.
```

```
</div>
```

Alerta - Close

```
<div class="alert alert-success">
```

```
  <strong>Success!</strong> Indicates a successful or positive action.
```

```
</div>
```

```
<div class="alert alert-success alert-dismissible" >
```

```
  <button type="button" class="close" data-dismiss="alert">&times;</button>
```

```
  <strong>Success!</strong> Indicates a successful or positive action.
```

```
</div>
```

Alerta

- alert-success
- alert-info
- alert-warning
- alert-danger

```
<div class="alert alert-info alert-dismissible fade show" >  
  <button type="button" class="close" data-dismiss="alert">&times;</button>  
  <strong>Info!</strong> This alert box could indicate a neutral informative  
  change or action.  
</div>
```

Botão

```
<button type="button" class="btn">Basic</button>
<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-info">Info</button>
<button type="button" class="btn btn-warning">Warning</button>
<button type="button" class="btn btn-danger">Danger</button>
<button type="button" class="btn btn-dark">Dark</button>
<button type="button" class="btn btn-light">Light</button>
<button type="button" class="btn btn-link">Link</button>
```

*<a>, <button> ou <input>

Botão

- Tamanho

```
<button type="button" class="btn btn-primary btn-lg"> Large</button>
```

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

```
<button type="button" class="btn btn-primary btn-sm"> Small</button>
```

- Ativado/Desativado

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

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

```
<a href="#" class="btn btn-primary disabled"> Disabled Link</a>
```


Botão - Spinner (Loading)

```
<button class="btn btn-primary" disabled>  
  <span class="spinner-border spinner-border-sm" ></span>  
  Loading..  
</button>
```

Barra de progresso

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

```
<div class="progress">  
  <div class="progress-bar progress-bar-striped progress-bar-animated"  
style="width: 40%"></div>  
</div>
```

Paginação

```
<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>
```

Paginação - Active/Disabled

```
<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 active"><a class="page-link" href="#">2</a></li>
  <li class="page-item"><a class="page-link" href="#">3</a></li>
  <li class="page-item disabled"><a class="page-link" href="#">Next</a></li>
</ul>
```

Paginação - Posição

```
<!-- Default (left-aligned) -->
```

```
<ul class="pagination" style="margin:20px 0">
```

```
  <li class="page-item">...</li>
```

```
</ul>
```

```
<!-- Center-aligned -->
```

```
<ul class="pagination justify-content-center" style="margin:20px 0">
```

```
  <li class="page-item">...</li>
```

```
</ul>
```

```
<!-- Right-aligned -->
```

```
<ul class="pagination justify-content-end" style="margin:20px 0">
```

```
  <li class="page-item">...</li>
```

```
</ul>
```

Lista

```
<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>
```

Lista

- Efeito

```
<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>
```

- Remover a borda

```
<ul class="list-group list-group-flush">
```

Lista

- Lista horizontal

```
<ul class="list-group list-group-horizontal">
```

- Cores

```
<li class="list-group-item list-group-item-success"> Success item</li>
```

```
<li class="list-group-item list-group-item-info"> Info item</li>
```

```
<li class="list-group-item list-group-item-warning"> Warning item</li>
```

```
<li class="list-group-item list-group-item-danger"> Danger item</li>
```


Cartão (Card)

```
<div class="card" style="width:400px">  
    
  <div class="card-body">  
    <h4 class="card-title">John Doe</h4>  
    <p class="card-text">Some example text.</p>  
    <a href="#" class="btn btn-primary">See Profile</a>  
  </div>  
</div>
```



Collapse

```
<button type="button" class="btn btn-primary" data-toggle="collapse" data-target="#demo">Collapsible</button>
```

```
<div id="demo" class="collapse">  
Lorem ipsum dolor text....  
</div>
```

*https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_collapsible_accordion&stacked=h

Navegação

```
<ul class="nav">
  <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>
```

Navegação

- Alinhar

```
<!-- Centered nav -->
```

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

```
<!-- Right-aligned nav -->
```

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

- Vertical

```
<ul class="nav flex-column">
```

Navegação

- Tabs

```
<ul class="nav nav-tabs">
```

- Pills

```
<ul class="nav nav-pills">
```

obs: o item precisa ter o active

- Justificado

```
<ul class="nav nav-tabs nav-justified">
```

*https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_nav_tabs_toggleable&stacked=h

Barra de Navegação

```
<nav class="navbar navbar-expand-sm bg-light" >
  <ul class="navbar-nav">
    <li class="nav-item">
      <a class="nav-link" href="#">Link 1</a>
    </li>
    <li class="nav-item">
      <a class="nav-link" href="#">Link 2</a>
    </li>
    <li class="nav-item">
      <a class="nav-link" href="#">Link 3</a>
    </li>
  </ul>
</nav>
```

Barra de Navegação

- Vertical

```
<nav class="navbar">
```

- Logo

```
<nav class="navbar navbar-expand-sm bg-dark navbar-dark" >  
  <a class="navbar-brand" href="#">  
      
  </a>  
  ...
```

*https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_navbar_collapse

Formulários

Todos os textos de `<input>`, `<textarea>`, e `<select>` com a classe `.form-control` tem largura 100%.

```
<form action="/action_page.php">
  <div class="form-group">
    <label for="email">Email address:</label>
    <input type="email" class="form-control" id="email">
  </div>
  <div class="form-group">
    <label for="pwd">Password:</label>
    <input type="password" class="form-control" id="pwd">
  </div>
  <button type="submit" class="btn btn-primary">Submit</button>
</form>
```


Formulários

- Checkbox

```
<div class="form-check-inline">
  <label class="form-check-label">
    <input type="checkbox" class="form-check-input" value="">Option 1
  </label>
</div>

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

Formulários

- Custom Checkbox

```
<div class="custom-control custom-checkbox" >  
  <input type="checkbox" class="custom-control-input" id="customCheck"  
  name="example1">  
  <label class="custom-control-label" for="customCheck">Clique  
  aqui</label>  
</div>
```

Formulários

- Select

```
<select class="form-control" id="sell1" name="sellist1">  
  <option>1</option>  
  <option>2</option>  
  <option>3</option>  
  <option>4</option>  
</select>
```

- Custom Select

```
<select class="custom-select" name="cars">
```

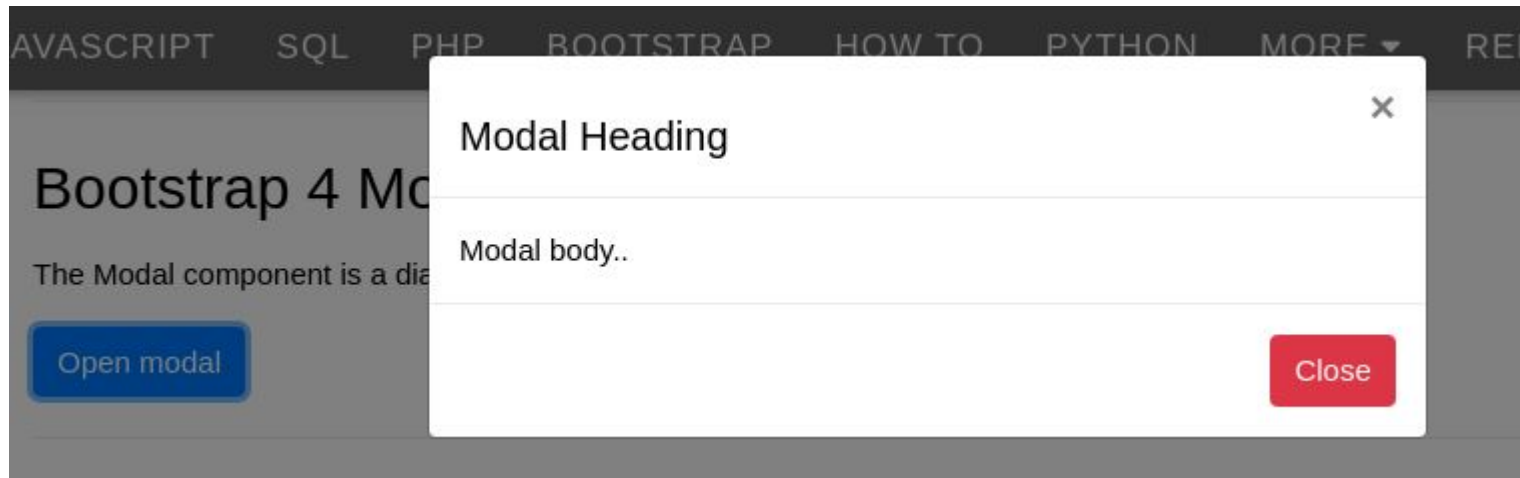
Carousel

- https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_carousel



Modal

- https://www.w3schools.com/bootstrap4/tryit.asp?filename=trybs_modal&stacked=h



Links importantes

- **Desenvolvimento Web com HTML, CSS e JavaScript.** Disponível em:
<https://www.caelum.com.br/apostila-html-css-javascript/>
- <https://getbootstrap.com/>
- <https://www.w3schools.com/bootstrap4/>



Dúvidas??

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