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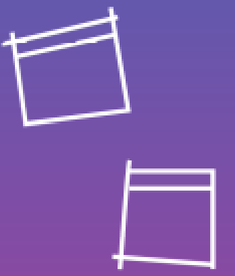


Módulo 2 - HTML e CSS

Aula 5 - Bootstrap

Bootstrap

O Bootstrap é um ***framework*** que fornece estruturas de CSS para a criação de sites e aplicações responsivas.

Esse framework surgiu como um projeto desenvolvido para o Twitter, mas logo ganhou popularidade.

Primeiro código Bootstrap

https://getbootstrap.com/docs/5.2/getting-started/introduction/

Para criar um projeto com Bootstrap, precisamos inserir os CDNs no código, tanto o de CSS, na **<head>**, quanto o de JS, no **<body>**.

```html
<!DOCTYPE html>
<html lang="pt-br">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.0/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-gH2yIJqKdNHPEq0n4Mqa/HGKIhSkIHeL5AyhkYV8i59U5AR6csBvApHHNl/vI1Bx" crossorigin="anonymous">
  <title>Document</title>
</head>
<body>

  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.0/dist/js/bootstrap.bundle.min.js" integrity="sha384-A3rJD856KowSb7dwlZdYEkO39Gagi7vIsF0jrRAoQmDKKtQBHUuLZ9AsSv4jD4Xa" crossorigin="anonymous"></script>
</body>
</html>
```

Breakpoints

Breakpoints, em tradução livre, são pontos de quebra, ou de interrupção. Eles são úteis para alterarmos partes do layout para tamanhos de tela específicos.

Exemplos de tamanhos de tela distintos:
- Desktop;
- Tablet;
- Celular.

Breakpoints no Bootstrap

O Bootstrap possui **seis** *breakpoints* distintos, são eles:

Breakpoint	Class infix	Dimensions
Extra small	*None*	<576px
Small	`sm`	≥576px
Medium	`md`	≥768px
Large	`lg`	≥992px
Extra large	`xl`	≥1200px
Extra extra large	`xxl`	≥1400px

https://getbootstrap.com/docs/5.2/layout/breakpoints/

Containers

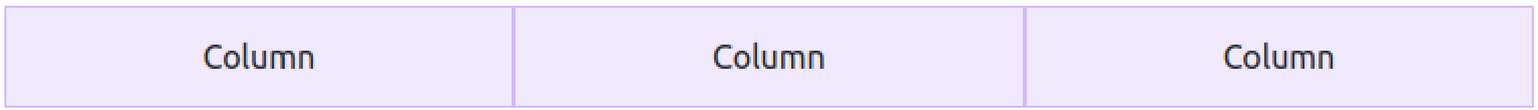
Existem sete tamanhos de container no Bootstrap:

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

https://getbootstrap.com/docs/5.2/layout/containers/

Grid no Bootstrap

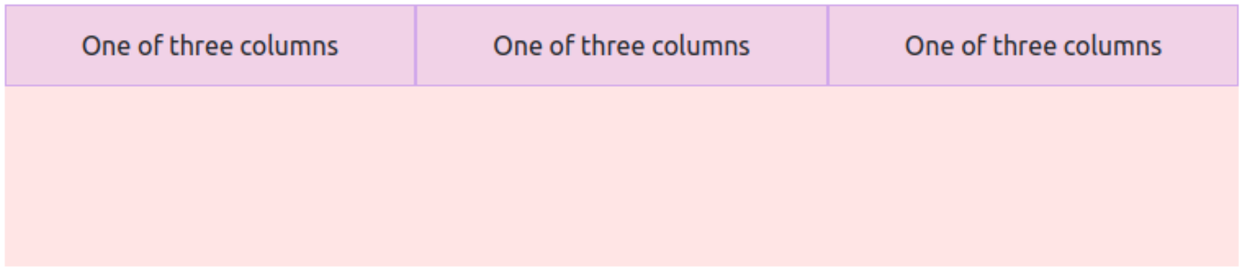
```html
<div class="container text-center">
  <div class="row">
    <div class="col">
      Column
    </div>
    <div class="col">
      Column
    </div>
    <div class="col">
      Column
    </div>
  </div>
</div>
```



https://getbootstrap.com/docs/5.2/layout/grid/

Colunas

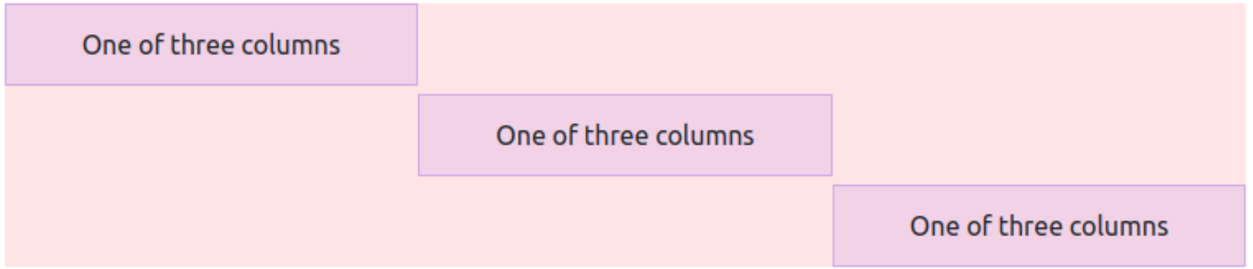
```html
<div class="row align-items-start">
  <div class="col">
    One of three columns
  </div>
  <div class="col">
    One of three columns
  </div>
  <div class="col">
    One of three columns
  </div>
</div>
```



https://getbootstrap.com/docs/5.2/layout/columns/

Colunas

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



https://getbootstrap.com/docs/5.2/layout/columns/

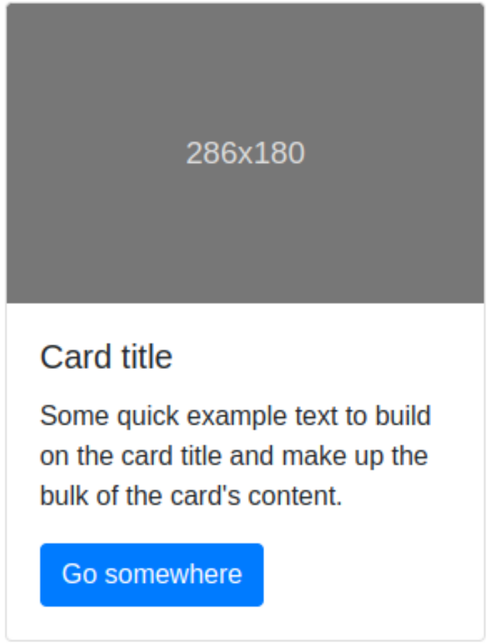
Botões

```html
<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>
```

https://getbootstrap.com/docs/5.2/components/buttons/

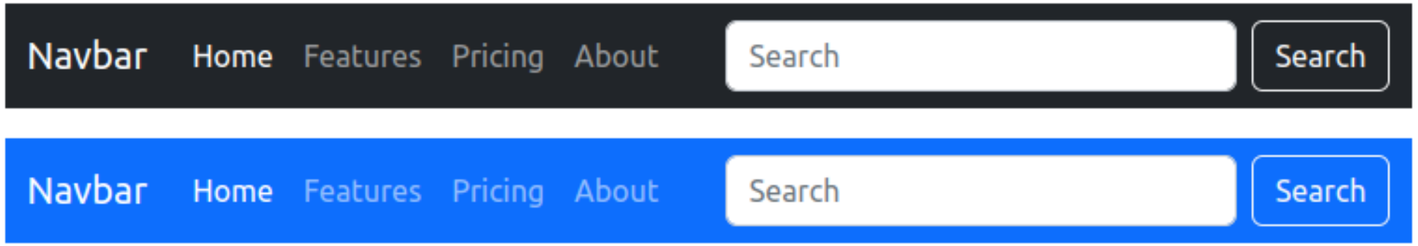
Cards




```html
<div class="card" style="width: 18rem;">
  <img class="card-img-top" src="..." alt="Card image cap">
  <div class="card-body">
    <h5 class="card-title">Card title</h5>
    <p class="card-text">Some quick example text to build on
      the card title and make up the bulk of the card's content.
    </p>
    <a href="#" class="btn btn-primary">Go somewhere</a>
  </div>
</div>
```

https://getbootstrap.com/docs/4.0/components/card/

Navbar




```html
<nav class="navbar navbar-dark bg-dark">
  <!-- Navbar content -->
</nav>

<nav class="navbar navbar-dark bg-primary">
  <!-- Navbar content -->
</nav>
```

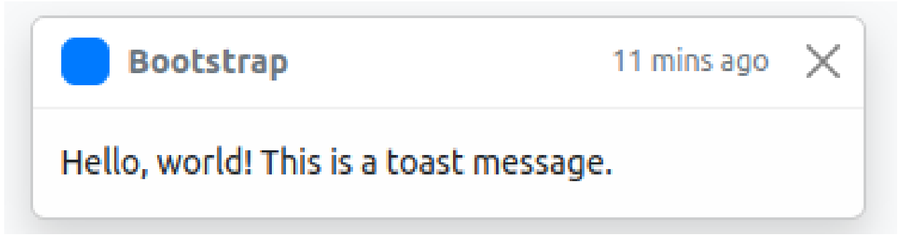
https://getbootstrap.com/docs/5.2/components/navbar/

Progress bar

```html
<div class="progress">
  <div class="progress-bar" role="progressbar" aria-label="Basic example" aria-valuenow="0" aria-valuemin="0" aria-valuemax="100"></div>
</div>
<div class="progress">
  <div class="progress-bar" role="progressbar" aria-label="Basic example" style="width: 25%" aria-valuenow="25" aria-valuemin="0" aria-valuemax="100"></div>
</div>
<div class="progress">
  <div class="progress-bar" role="progressbar" aria-label="Basic example" style="width: 50%" aria-valuenow="50" aria-valuemin="0" aria-valuemax="100"></div>
</div>
<div class="progress">
  <div class="progress-bar" role="progressbar" aria-label="Basic example" style="width: 75%" aria-valuenow="75" aria-valuemin="0" aria-valuemax="100"></div>
</div>
<div class="progress">
  <div class="progress-bar" role="progressbar" aria-label="Basic example" style="width: 100%" aria-valuenow="100" aria-valuemin="0" aria-valuemax="100"></div>
</div>
```

https://getbootstrap.com/docs/5.2/components/progress/

Toasts




```html
<div class="toast" role="alert" aria-live="assertive" aria-atomic="true">
  <div class="toast-header">
    <img src="..." class="rounded me-2" alt="...">
    <strong class="me-auto">Bootstrap</strong>
    <small>11 mins ago</small>
    <button type="button" class="btn-close" data-bs-dismiss="toast" aria-label="Close"></button>
  </div>
  <div class="toast-body">
    Hello, world! This is a toast message.
  </div>
</div>
```

https://getbootstrap.com/docs/5.2/components/toasts/

Obrigado!

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