

# Bootstrap | Website Design & Development<sup>®</sup>

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# Bootstrap

Grid, Components,  
Border

What?

**Bootstrap** is a free and **open-source** **CSS framework** directed at responsive, mobile-first front-end web development.

*It contains **HTML**, **CSS** and **JavaScript**-based design templates for typography, forms, buttons, navigation, and other interface components.*

# Load Bootstrap Using CDN



## Include via CDN

When you only need to include Bootstrap's compiled CSS or JS, you can use [jsDelivr](#). See it in action with our simple [quick start](#), or [browse the examples](#) to jumpstart your next project. You can also choose to include Popper and our JS [separately](#).

```
<!-- CSS only -->
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.0-beta1"
```

```
<!-- JavaScript Bundle with Popper -->
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.0-beta1"
```

# B

# Load Bootstrap

## *Downloaded Bootstrap*

The screenshot shows the official Bootstrap website. At the top is a large purple header with a white 'B' icon. Below it is a hero section with a purple background featuring a large white 'B' icon inside curly braces. The text reads: "Build fast, responsive sites with Bootstrap". Below this is a description: "Powerful, extensible, and feature-packed frontend toolkit. Build and customize with Sass, utilize prebuilt grid system and components, and bring projects to life with powerful JavaScript plugins." At the bottom of the hero section are two buttons: one for npm installation and one for "Read the docs". A red box highlights the "Download" link in the footer navigation bar, which includes "Currently v5.2.0-beta1", "Download", "v4.6.x docs", and "All releases". A dashed orange arrow points from this "Download" link to the "Download" button on the right side of the page.

```
$ npm i bootstrap@5.2.0-beta1
```

[Read the docs](#)

Currently v5.2.0-beta1 · [Download](#) · [v4.6.x docs](#) · [All releases](#)

## Download

Download Bootstrap to get the compiled CSS and JavaScript, source code, or include it with your favorite package managers like npm, RubyGems, and more.



Your new development career awaits. Check out the latest listings.  
ads via Carbon

## Compiled CSS and JS

Download ready-to-use compiled code for **Bootstrap v5.2.0-beta1** to easily drop into your project, which includes:

- Compiled and minified CSS bundles (see [CSS files comparison](#))
- Compiled and minified JavaScript plugins (see [JS files comparison](#))

This doesn't include documentation, source files, or any optional JavaScript dependencies like Popper.

[Download](#)

# B

# Test?

To confirm bootstrap loaded successfully



```
<button type="button" class="btn btn-success">OK</button>
```

```
<h1 class="display-1">Heading</h1>
```

Heading

# B

## Buttons

```
<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>
```

[Primary](#)[Secondary](#)[Success](#)[Danger](#)[Warning](#)[Info](#)[Light](#)[Dark](#)[Link](#)

# B

## Bootstrap Headings

```
<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>
```

Display 1

Display 2

Display 3

Display 4

# B

## Bootstrap Border-radius



```
  
  
  
  
  
  
  
  
  
  
  
  
  
  

```

# B

## Space

Where *property* is one of:

- **m** - for classes that set `margin`
- **p** - for classes that set `padding`

Where *sides* is one of:

- **t** - for classes that set `margin-top` or `padding-top`
- **b** - for classes that set `margin-bottom` or `padding-bottom`
- **l** - for classes that set `margin-left` or `padding-left`
- **r** - for classes that set `margin-right` or `padding-right`
- **x** - for classes that set both `*-left` and `*-right`
- **y** - for classes that set both `*-top` and `*-bottom`

`class="p-3"`

`class="ml-5"`

`class="mx-2"`



icon

## CDN

Include the icon fonts stylesheet—in your website `<head>` or via `@import` in CSS—from our CDN and get started in seconds. [See icon font docs](#) for examples.

```
<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.10.0/dist/bootstrap-icons.css" type="text/css" />
```

To head

```
@import url("https://cdn.jsdelivr.net/npm/bootstrap-icons@1.10.0/dist/bootstrap-icons.css");
```

To CSS `<style>`



```
<button><i class="bi bi-trophy"></i></button>
```



arrow-down-left-circle



arrow-down-left-circle-fill



arrow-down-left-square



arrow-down-square



arrow-down-square-fill



arrow-down-left



arrow-left-circle-fill



arrow-left-square



arrow-left-square-fill



arrow-right



arrow-right-circle



arrow-right-circle-fill



arrow-up



arrow-up-circle



arrow-up-circle-fill

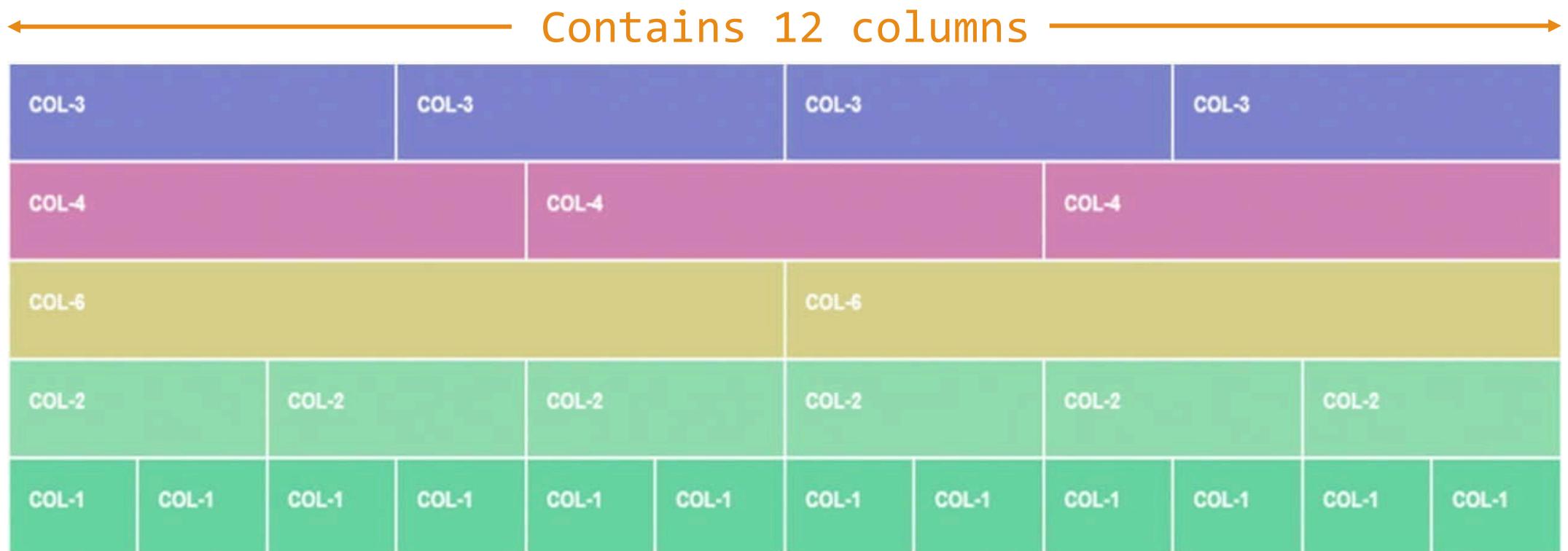
# B

## Activity

ID	Title	Parent ID	Action
1	News	News Cate	Edit  Del
2	Products	Main Products	Edit  Del
3	Blogs	Parent Blogs	Edit  Del

# B

## Grid



# B

## Bootstrap Grid Breakpoints

	<b>Extra small</b> <code>&lt;576px</code>	<b>Small</b> <code>≥576px</code>	<b>Medium</b> <code>≥768px</code>	<b>Large</b> <code>≥992px</code>	<b>Extra large</b> <code>≥1200px</code>
<b>Max container width</b>	None (auto)	540px	720px	960px	1140px
<b>Class prefix</b>	<code>.col-</code>	<code>.col-sm-</code>	<code>.col-md-</code>	<code>.col-lg-</code>	<code>.col-xl-</code>

### Examples

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

```
<div class="row">
  <div class="col-md-6"></div>
  <div class="col-md-3"></div>
  <div class="col-md-3"></div>
</div>
```

# B

# Containers

Container



Container-fluid



# B

## Bootstrap Grid

### CSS

```
[class*="col-"] {  
  box-sizing: border-box;  
  background-color: tomato;  
  border: solid 1px white;  
  height: 100px;  
}
```

1 Row contains  
2 columns

### HTML

```
<div class="container-fluid">  
  <div class="row">  
    <div class="col-lg-6 col-md-6 col-sm-6 col-6">  
      </div>  
      <div class="col-lg-6 col-md-6 col-sm-6 col-6">  
      </div>  
    </div>  
  </div>  
</div>
```

Main container

Each row defines with

Large	Medium	Small	Extra small
$\geq 992\text{px}$	$\geq 768\text{px}$	$\geq 576\text{px}$	$< 576\text{px}$



# Bootstrap Grid test

## CSS

```
[class*="col-"] {  
    box-sizing: border-box;  
    background-color: tomato;  
    border: solid 1px white;  
    height: 100px;  
}
```

## HTML

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

# B

Offset *will generate empty columns*

## Best practice Offset

```
<div class="container-fluid">
  <div class="row">
    <div class="col-md-4 offset-md-4">Logo</div>
  </div>
</div>
```

## General way

```
<div class="container-fluid">
  <div class="row">
    <div class="col-md-4"></div>
    <div class="col-md-4">Logo</div>
    <div class="col-md-4"></div>
  </div>
</div>
```

# B

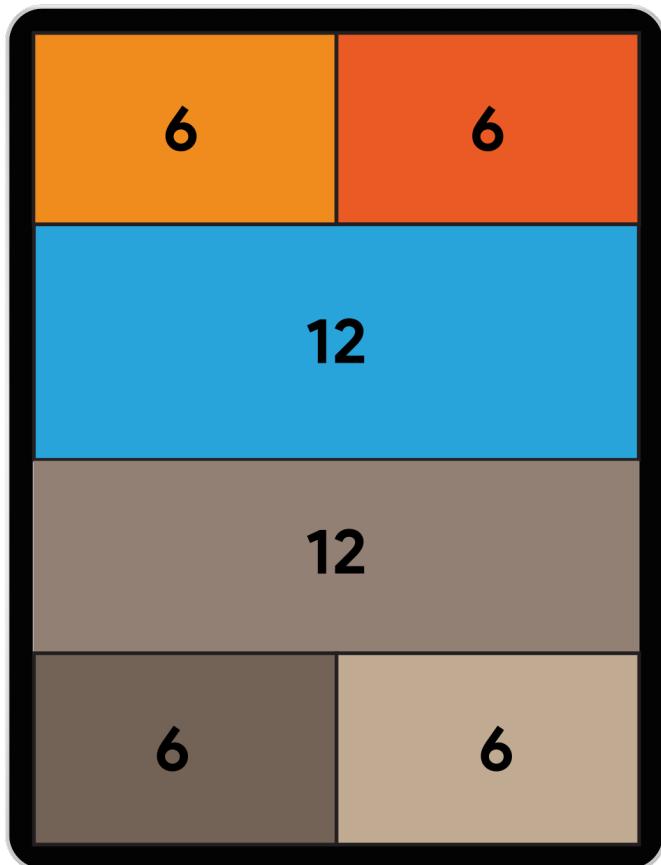
Create Bootstrap  
**Grid** to generate  
below output



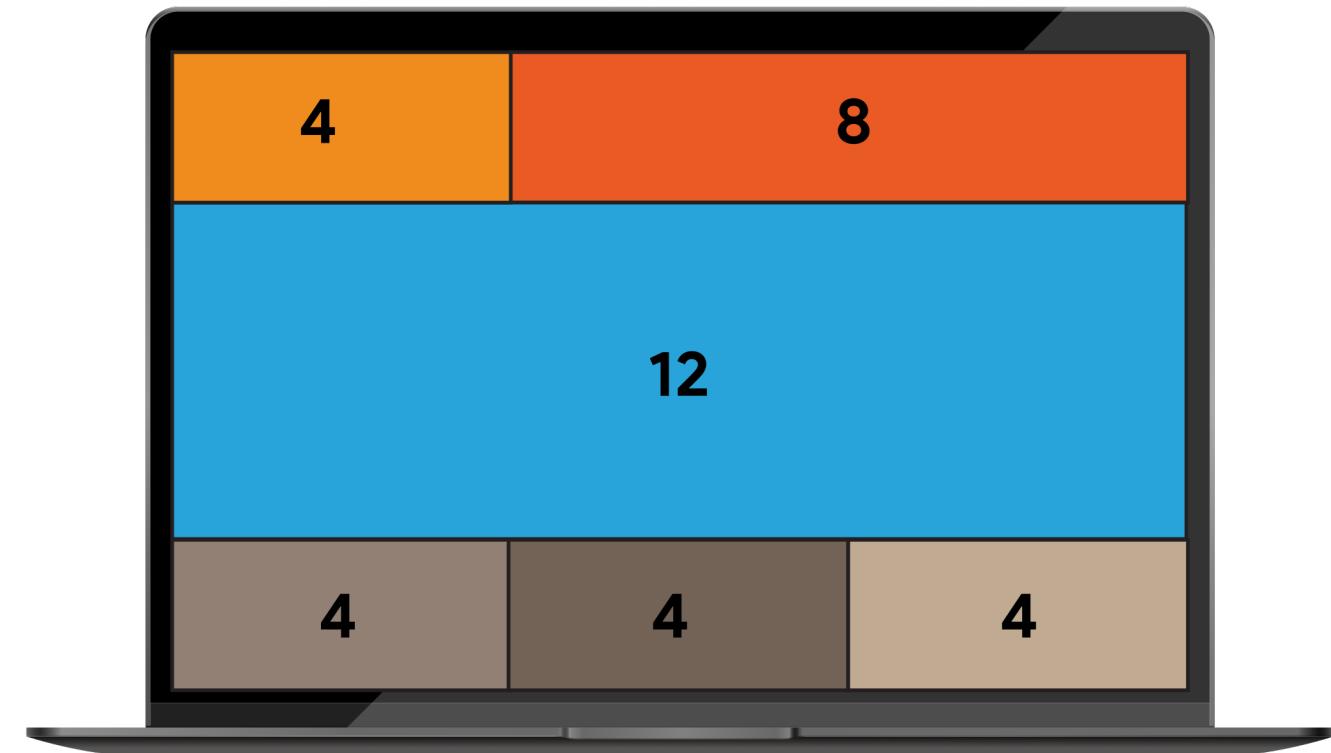
**B**

Create Bootstrap **Grid** to generate below output

-SM



-MD



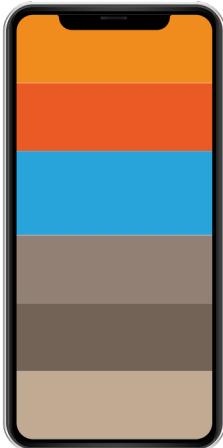
**B**

Create Bootstrap Grid to generate below output



Height 150px

-XS



-SM



-MD



-LG



#F08C1E
#EA5A24
#29A4DB
#928075
#736357
#COAB92

# B

## Website Layout

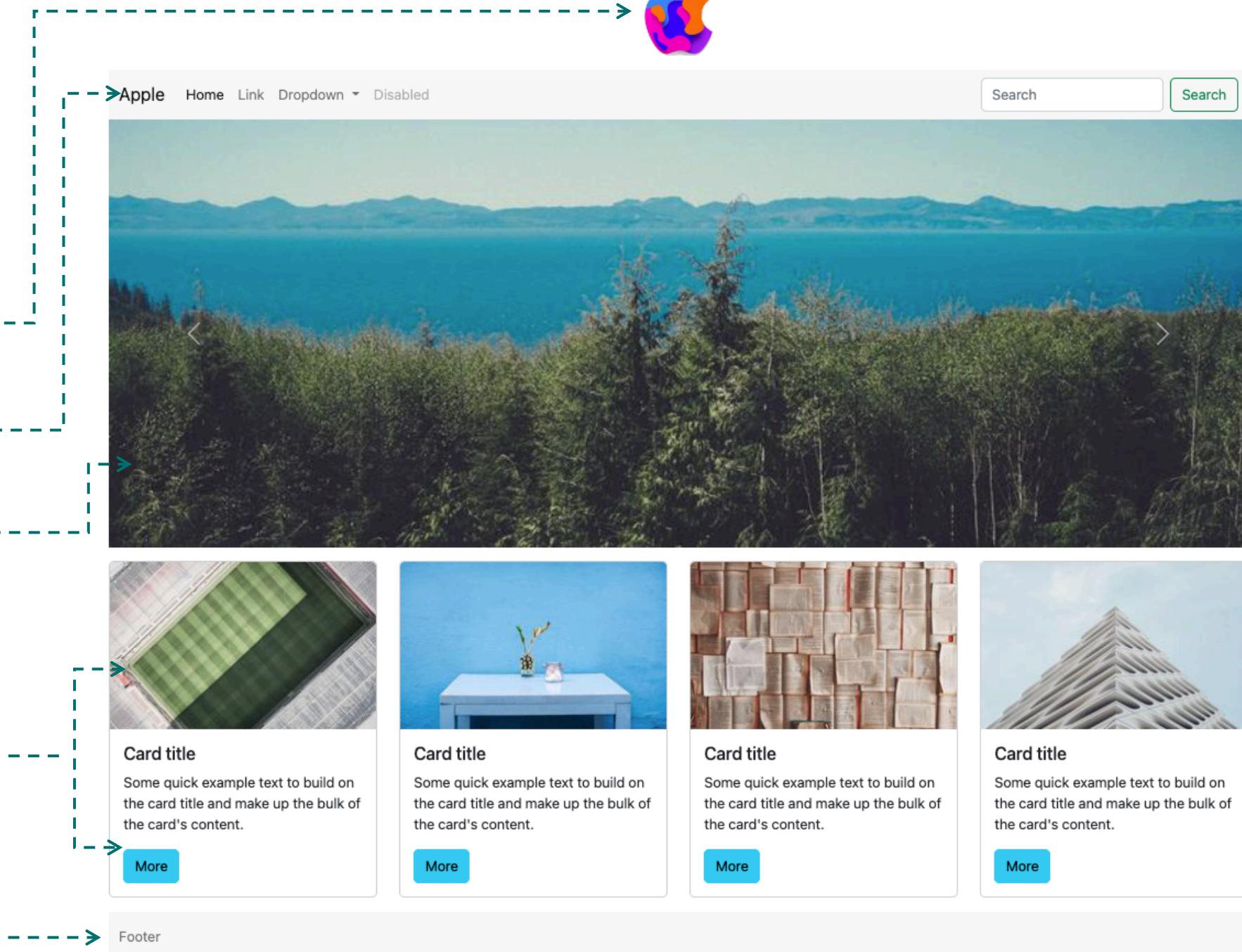
Logo

Navbar

Carousel

Card

Nav



# B

## Website Layout In Tab & mobile



### Apple



< >

Footer



**Card title**

Some quick example text to build on the card title and make up the bulk of the card's content.

[More](#)



**Card title**

Some quick example text to build on the card title and make up the bulk of the card's content.

[More](#)



**Card title**

Some quick example text to build on the card title and make up the bulk of the card's content.

[More](#)



**Card title**

Some quick example text to build on the card title and make up the bulk of the card's content.

[More](#)



### Apple



< >

Footer



**Card title**

Some quick example text to build on the card title and make up the bulk of the card's content.

[More](#)



**Card title**

Some quick example text to build on the card title and make up the bulk of the card's content.

[More](#)



**Card title**

Some quick example text to build on the card title and make up the bulk of the card's content.

[More](#)

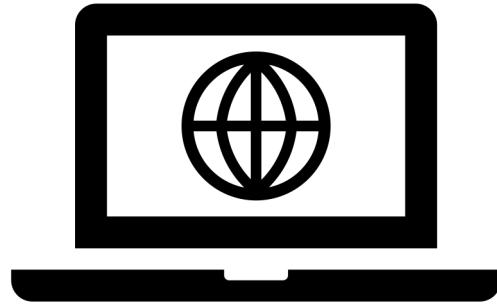


**Card title**

Some quick example text to build on the card title and make up the bulk of the card's content.

[More](#)

Footer



## Q1 - Complete until Bootstrap

[www.w3schools.com](http://www.w3schools.com)

Course Pack 03 | Package 01



A handwritten signature in black ink, appearing to read "H. Shumayil".



w3schools.com

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