

# Frameworks, Bootstrap



dev  
f

Un framework es un **esquema o marco de trabajo** que ofrece una estructura base para elaborar un proyecto

Es una especie de plantilla que sirve como punto de partida para la organización y desarrollo de interfaces.

#### UI components

##### Buttons

Large - height 50px, font 16pt



Medium - height 45px, font 15pt



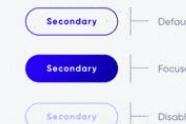
Small - height 36px, font 13pt



Large - height 50px, font 16pt



Medium - height 45px, font 15pt



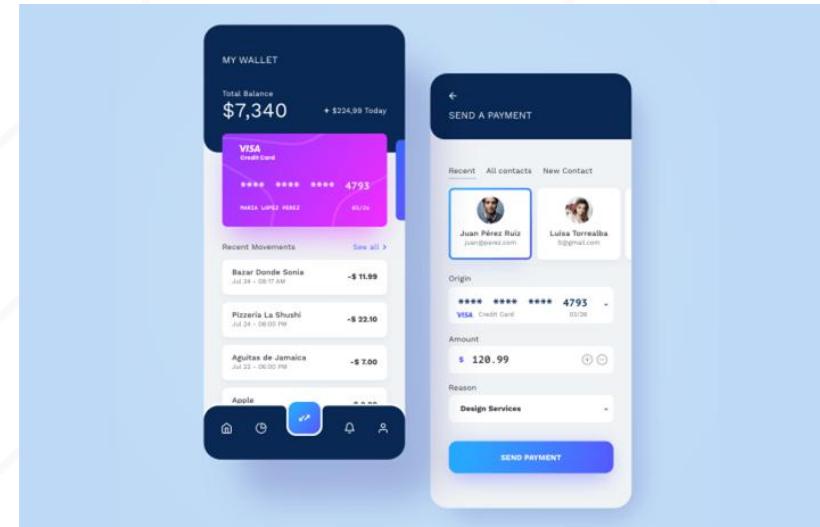
Small - height 45px, font 15pt



# Bootstrap

Es una biblioteca multiplataforma de código abierto para diseño de sitios y aplicaciones web.

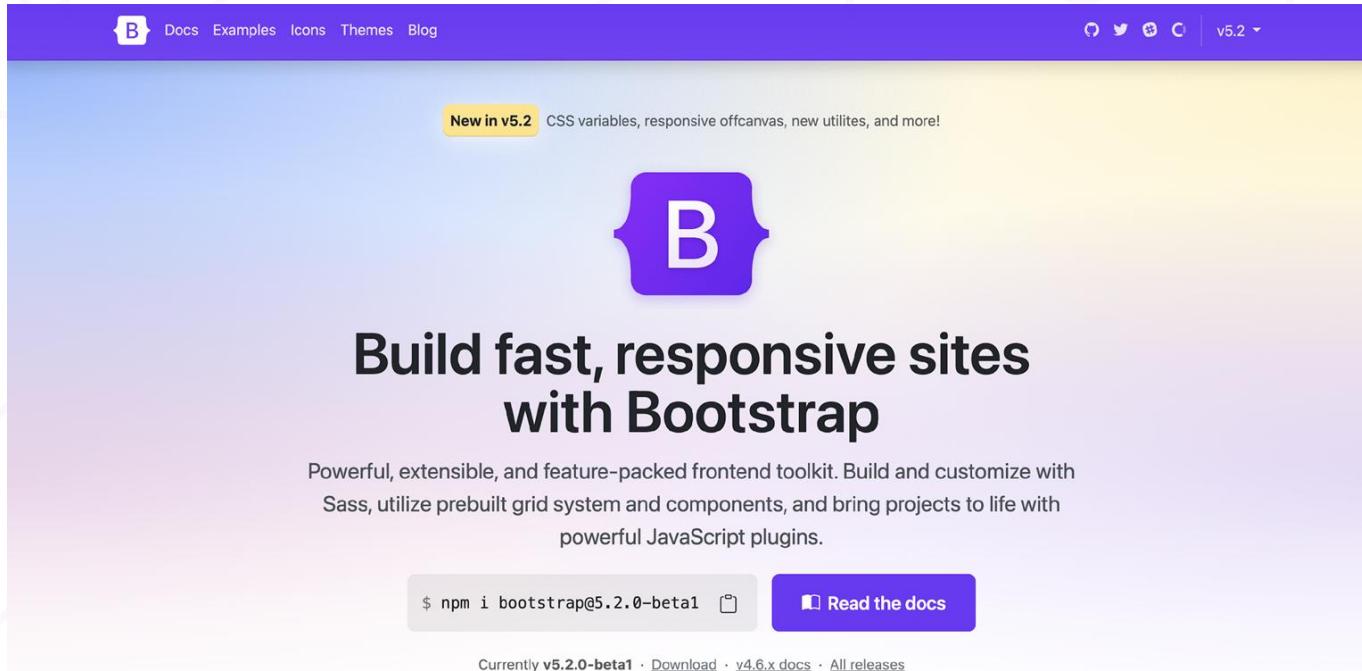
Contiene plantillas de diseño con tipografía, formularios, botones, cuadros, menús de navegación y otros elementos de diseño basado en HTML y CSS, así como extensiones de JavaScript adicionales.



# Ventajas de Bootstrap

- Puedes diseñar una web jugando con sus componentes por diferentes combinaciones de HTML, CSS y Javascript.
- Incluye Grid system: muy útil para maquetar por columnas.
- Sus plantillas son de sencilla adaptación responsive.
- Cuenta con una documentación completa.
- Incluye plantillas optimizadas y biblioteca de íconos

# Bootstrap - Documentación



The screenshot shows the official Bootstrap documentation website. At the top, there's a purple navigation bar with the Bootstrap logo, links for Docs, Examples, Icons, Themes, and Blog, and social media icons for GitHub, Twitter, and others. A dropdown menu shows 'v5.2'. Below the bar, a yellow banner says 'New in v5.2' followed by 'CSS variables, responsive offcanvas, new utilities, and more!'. The main feature is a large purple icon containing a white letter 'B' with curly braces on either side. Below it, the text reads 'Build fast, responsive sites with Bootstrap'. A descriptive paragraph follows, mentioning its power, extensibility, and component-based nature. At the bottom, there's a command line interface example '\$ npm i bootstrap@5.2.0-beta1' next to a package icon, and a blue button labeled 'Read the docs' with a book icon. A footer note says 'Currently v5.2.0-beta1 · [Download](#) · [v4.6.x docs](#) · [All releases](#)'.

<https://getbootstrap.com/>



# **Vincular CDN Bootstrap**

## **Vincular CDN Icons**

# Grid System

> Getting started

> Customize

✓ Layout

Breakpoints

Containers

Grid

Columns

Gutters

Utilities

Z-index

CSS Grid

Column

Column

Column

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

Copy

# Grid System

> Getting started

> Customize

## ✓ Layout

### Breakpoints

Containers

Grid

Columns

Gutters

Utilities

Z-index

CSS Grid

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

# Grid System

> Getting started

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▽ Layout

Breakpoints

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Grid

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CSS Grid

	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%

# Utilities - Colors

```
<p class="text-primary">.text-primary</p>
<p class="text-secondary">.text-secondary</p>
<p class="text-success">.text-success</p>
<p class="text-danger">.text-danger</p>
<p class="text-warning bg-dark">.text-warning</p>
<p class="text-info bg-dark">.text-info</p>
<p class="text-light bg-dark">.text-light</p>
<p class="text-dark">.text-dark</p>
<p class="text-body">.text-body</p>
<p class="text-muted">.text-muted</p>
<p class="text-white bg-dark">.text-white</p>
<p class="text-black-50">.text-black-50</p>
<p class="text-white-50 bg-dark">.text-white-50</p>
```

.text-primary

.text-secondary

.text-success

.text-danger

.text-warning

.text-info

.text-light

.text-dark

.text-body

.text-muted

.text-white

.text-black-50

.text-white-50

# Utilities – Background Color

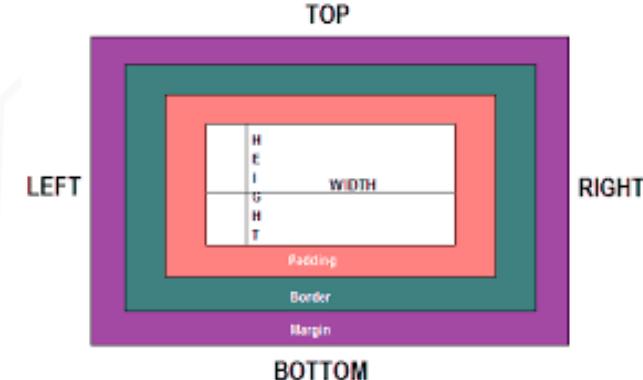
```
<div class="p-3 mb-2 bg-primary text-white">.bg-primary</div>
<div class="p-3 mb-2 bg-secondary text-white">.bg-secondary</div>
<div class="p-3 mb-2 bg-success text-white">.bg-success</div>
<div class="p-3 mb-2 bg-danger text-white">.bg-danger</div>
<div class="p-3 mb-2 bg-warning text-dark">.bg-warning</div>
<div class="p-3 mb-2 bg-info text-dark">.bg-info</div>
<div class="p-3 mb-2 bg-light text-dark">.bg-light</div>
<div class="p-3 mb-2 bg-dark text-white">.bg-dark</div>
<div class="p-3 mb-2 bg-body text-dark">.bg-body</div>
<div class="p-3 mb-2 bg-white text-dark">.bg-white</div>
<div class="p-3 mb-2 bg-transparent text-dark">.bg-transparent</div>
```

.bg-primary
.bg-secondary
.bg-success
.bg-danger
.bg-warning
.bg-info
.bg-light
.bg-dark
.bg-body
.bg-white
.bg-transparent

# Utilities - Spacing

# Utilities – Spacing

- `m` - for classes that set `margin`
- `p` - for classes that set `padding`
- `t` - for classes that set `margin-top` or `padding-top`
- `b` - for classes that set `margin-bottom` or `padding-bottom`
- `s` - (start) for classes that set `margin-left` or `padding-left` in LTR, `margin-right` or `padding-right` in RTL
- `e` - (end) for classes that set `margin-right` or `padding-right` in LTR, `margin-left` or `padding-left` in RTL
- `x` - for classes that set both `*-left` and `*-right`
- `y` - for classes that set both `*-top` and `*-bottom`
- blank - for classes that set a `margin` or `padding` on all 4 sides of the element



**Sizes:** 0, 1, 2, 3, 4, 5, auto

# Utilities - Flex

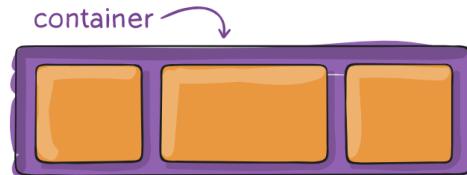
# Utilities – Flex

Responsive variations also exist for `.d-flex` and `.d-inline-flex`.

- `.d-flex`
- `.d-inline-flex`

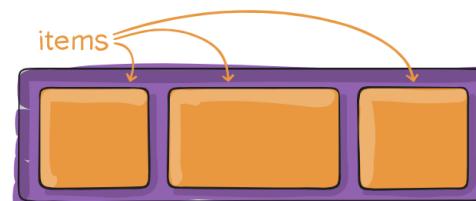
Responsive variations also exist for `flex-direction`.

- `.flex-row`
- `.flex-row-reverse`
- `.flex-column`
- `.flex-column-reverse`



Responsive variations also exist for `justify-content`.

- `.justify-content-start`
- `.justify-content-end`
- `.justify-content-center`
- `.justify-content-between`
- `.justify-content-around`
- `.justify-content-evenly`



# Juntando Clases

Some representative placeholder content for the three columns of text below the carousel. This is the first column.

View details »

Another exciting bit of representative placeholder content. This time, we've moved on to the second column.

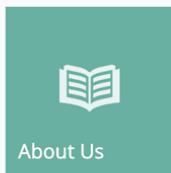
View details »

And lastly this, the third column of representative placeholder content.

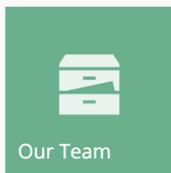
View details »

# Juntando Clases

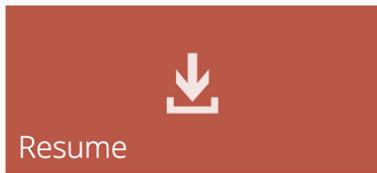
## Metrika



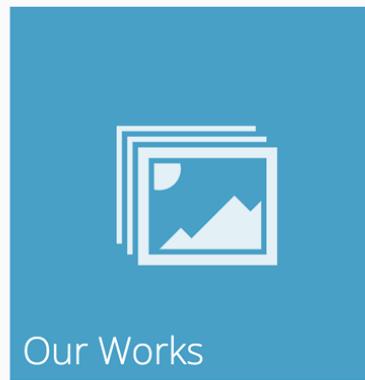
About Us



Our Team



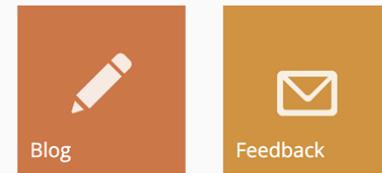
Resume



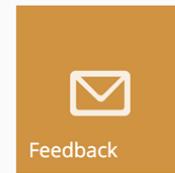
Our Works



Contacts



Blog



Feedback

# Actividad Práctica

Maquetar la siguiente sección haciendo uso del Grid y clases de bootstrap



Daniel Clifford  
Verified Graduate

I received a job offer mid-course, and the subjects I learned were current, if not more so, in the company I joined. I honestly feel I got every penny's worth.

"I was an EMT for many years before I joined the bootcamp. I've been looking to make a transition and have heard some people who had an amazing experience here. I signed up for the free intro course and found it incredibly fun! I enrolled shortly thereafter. The next 12 weeks was the best - and most grueling - time of my life. Since completing the course, I've successfully switched careers, working as a Software Engineer at a VR startup."



Jonathan Walters  
Verified Graduate

The team was very supportive and kept me motivated

"I started as a total newbie with virtually no coding skills. I now work as a mobile engineer for a big company. This was one of the best investments I've made in myself."



Kira Whittle  
Verified Graduate

Such a life-changing experience. Highly recommended!

"Before joining the bootcamp, I've never written a line of code. I needed some structure from professionals who can help me learn programming step by step. I was encouraged to enroll by a former student of theirs who can only say wonderful things about the program. The entire curriculum and staff did not disappoint. They were very hands-on and I never had to wait long for assistance. The agile team project, in particular, was outstanding. It took my learning to the next level in a way that no tutorial could ever have. In fact, I've often referred to it during interviews as an example of my development experience. It certainly helped me land a job as a full-stack developer after receiving multiple offers. 100% recommend!"



Jeanette Harmon  
Verified Graduate

An overall wonderful and rewarding experience

"Thank you for the wonderful experience! I now have a job I really enjoy, and make a good living while doing something I love."



Patrick Abrams  
Verified Graduate

Awesome teaching support from TAs who did the bootcamp themselves. Getting guidance from them and learning from their experiences was easy.

"The staff seem genuinely concerned about my progress which I find really refreshing. The program gave me the confidence necessary to be able to go out in the world and present myself as a capable junior developer. The standard is above the rest. You will get the personal attention you need from an incredible community of smart and amazing people."