

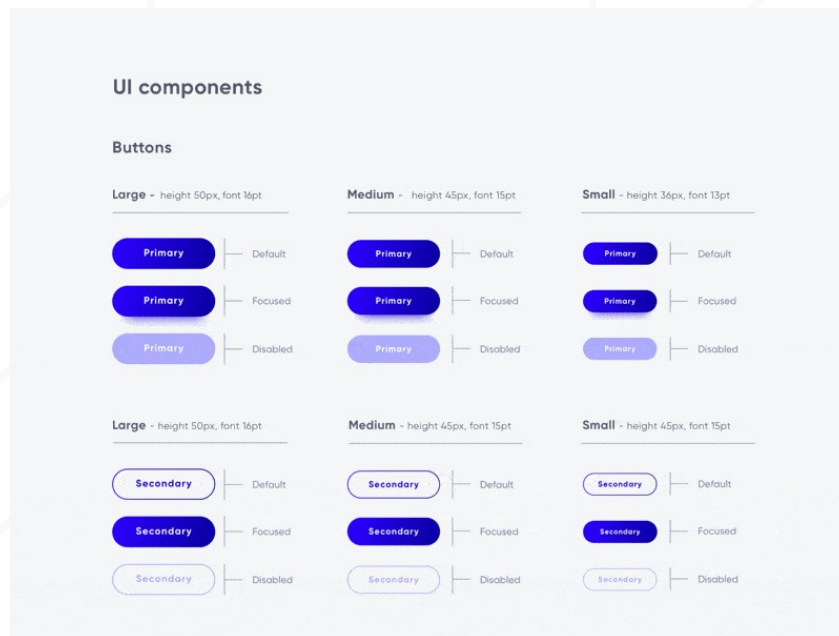
# Frameworks, Bootstrap

**DEV.F**  
DESARROLLAMOS(PERSONAS);

dev

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

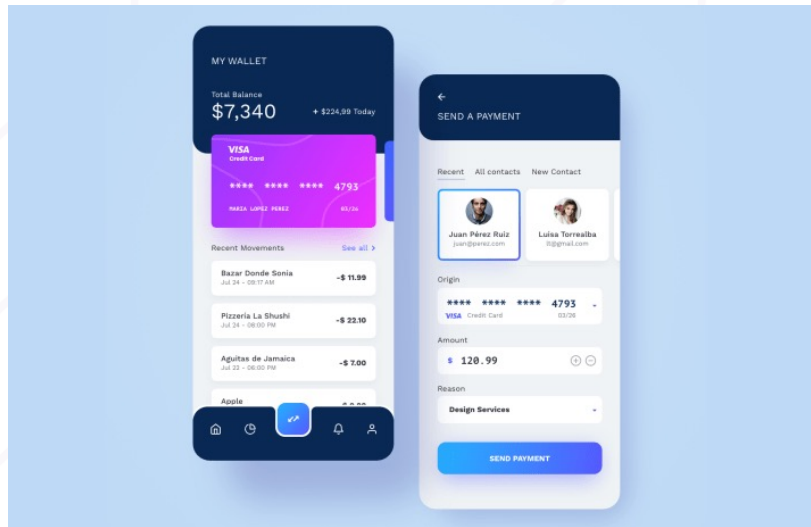
Es una especie de plantilla que sirve como punto de partida para la organización y desarrollo de interfaces.



# Bootstrap

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

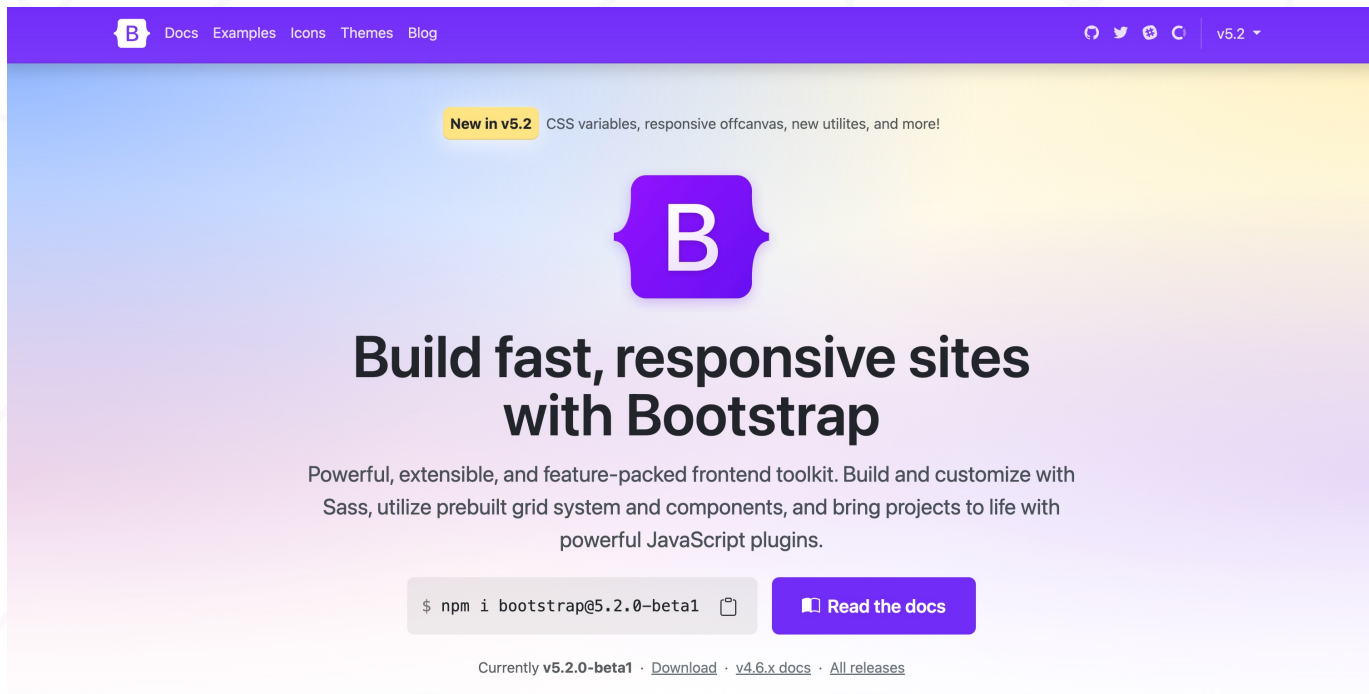
Contiene plantillas de diseño con tipografía, formularios, botones, cuadros, menús de navegación y otros elementos de diseño basado en HTML y CSS, así como extensiones de JavaScript adicionales.



# 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



<https://getbootstrap.com/>

The background features a light purple circuit board pattern with various lines and nodes. A single line in a darker purple color is highlighted in the upper left quadrant.

# **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

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Z-index

CSS Grid

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



# Grid System

› Getting started

› Customize

✓ Layout

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Z-index

CSS Grid

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

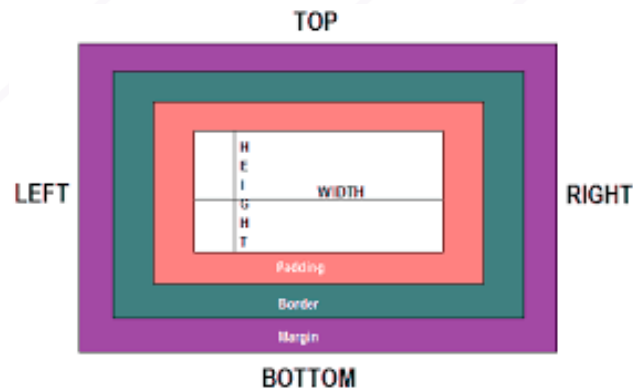
.bg-white

.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

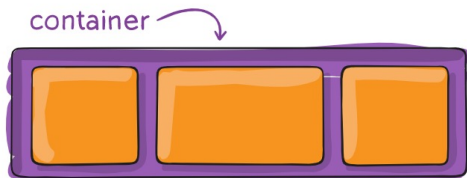
# Utilities – Flex

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

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

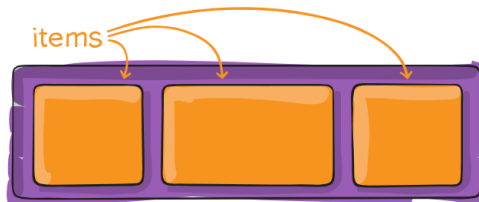
Responsive variations also exist for `flex-direction`.

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

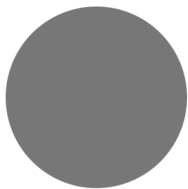


Responsive variations also exist for `justify-content`.

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

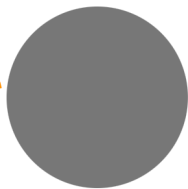


# Juntando Clases



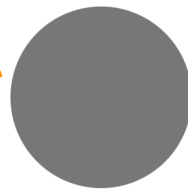
## Heading

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

[View details »](#)

## Heading

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

[View details »](#)

## Heading

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

[View details »](#)



# Juntando Clases

## Metrika



About Us



Our Team



Our Works



Contacts



Resume




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."