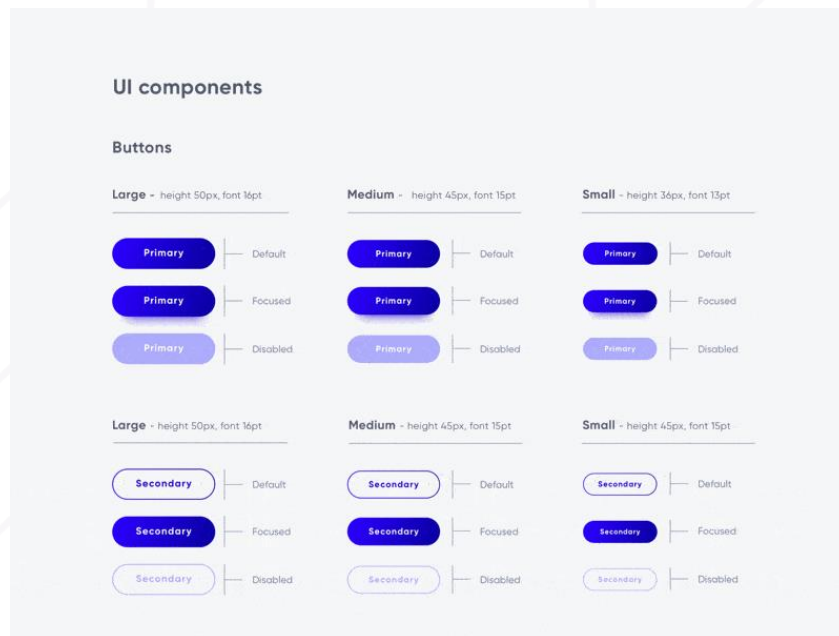


Frameworks, Bootstrap

DEV.F
DESARROLLAMOS(PERSONAS);

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

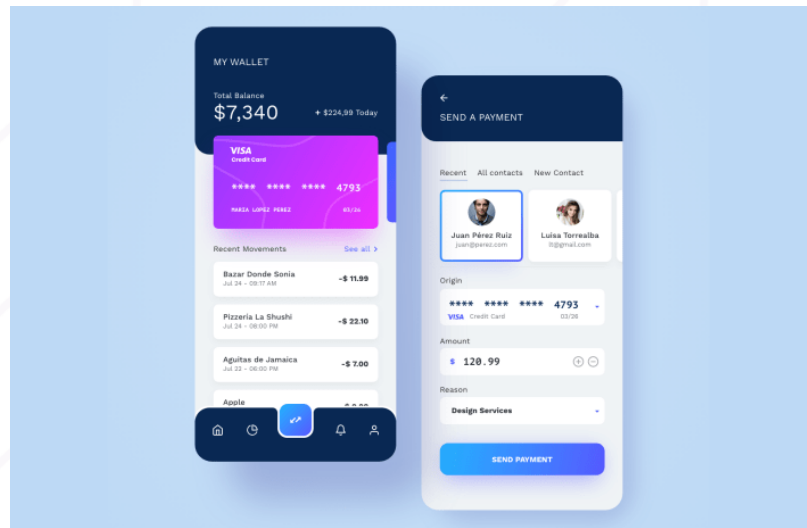
Es una especie de plantilla que sirve como punto de partida para la organización y desarrollo de interfaces.



Bootstrap

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

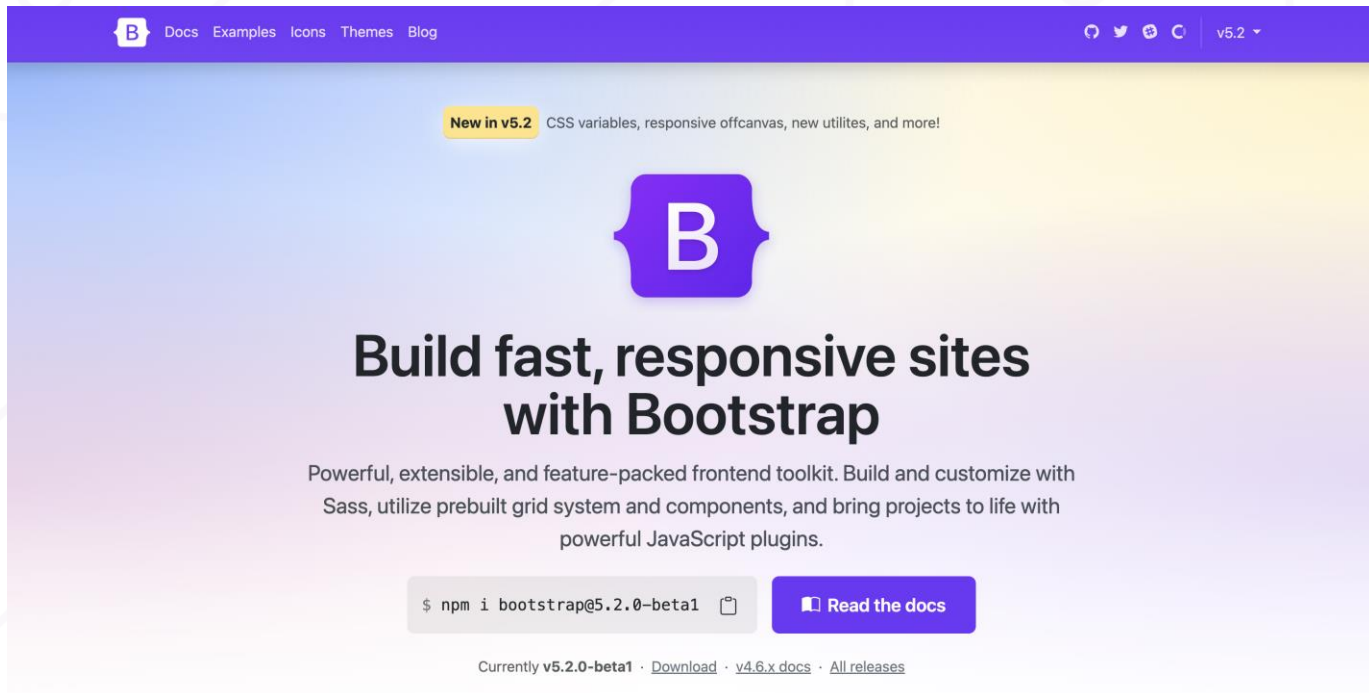
Contiene plantillas de diseño con tipografía, formularios, botones, cuadros, menús de navegación y otros elementos de diseño basado en HTML y CSS, así como extensiones de JavaScript adicionales.



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

Utilities

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

Breakpoints

Containers

Grid

Columns

Gutters

Utilities

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

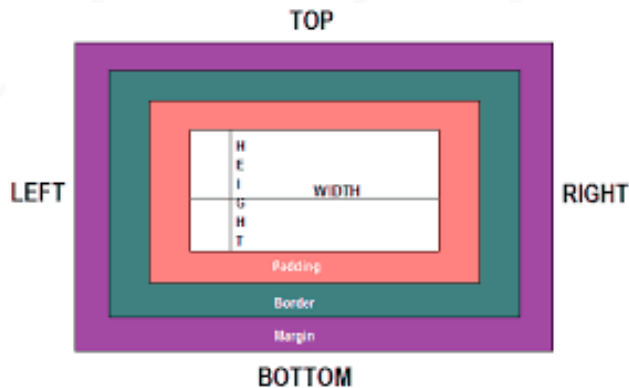
.bg-white

.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

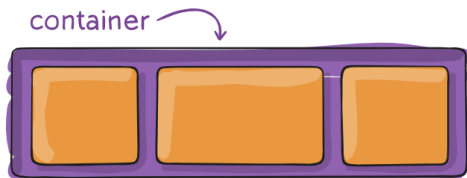
Utilities – Flex

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

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

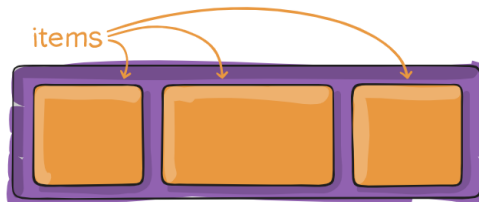
Responsive variations also exist for `flex-direction`.

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

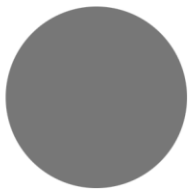


Responsive variations also exist for `justify-content`.

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



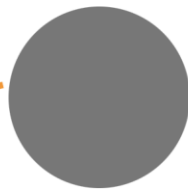
Juntando Clases



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."