

Tema 3. Tecnologías del cliente. Bootstrap

Programación web

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- Diseñar una página completa editando el CSS desde cero es una tarea de muy bajo nivel
- Los diseñadores gráficos se especializan en maquetación web para crear diseños que los programadores podamos usar
- Existen muchas librerías de componentes CSS con un diseño profesional que podemos usar para crear nuestra web. Por ejemplo:



http://getbootstrap.com/







¿Qué es Bootstrap?

- Bootstrap es un framework de software libre (licencia MIT) para el diseño del lado cliente de aplicaciones web
- Fue creado en 2011 por desarrolladores de Twitter con el objetivo de fomentar la coherencia de las herramientas internas de la compañía
- Ventajas de Bootstrap:
 - Fácil de usar
 - Permite la creación de aplicaciones web adaptables (responsive)
 - Orientado a dispositivos móviles en primer lugar (mobile-first)
 - Proporciona compatibilidad entre los principales navegadores (Chrome, Firefox, Internet Explorer, Safari y Opera)



¿Cómo usamos Bootstrap?

- La versión actual de Bootstrap (febrero de 2017) es la 3.3.7
- Una forma de usar Bootstrap es enlazando de la CDN (Content Delivery Network): http://www.bootstrapcdn.com/
- Bootstrap requiere el uso de jQuery
- Para usar Bootstrap en nuestra página web insertamos las siguientes etiquetas:

```
<link href="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css" rel="stylesheet">
<script src="https://code.jquery.com/jquery-1.12.4.min.js"></script>
<script src="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script>
```



Primera página con Bootstrap

```
pantalla del
<!DOCTYPE html>
                                             cliente
<html lang="en">
<head>
<title>Bootstrap Example</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<link href="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css" rel="stylesheet">
<script src="https://ajax.googleapis.com/ajax/libs/jquery/1.12.4/jquery.min.js"></script>
<script src="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
</head>
                                                        Bootstrap Example
<body>
<div class="container">
                                            My First Bootstrap Page
<h1>My First Bootstrap Page</h1>
This is some text.
                                            This is some text.
</div>
</body>
</html>
```

Para que la

al ancho de

página se ajuste



- En Bootstrap la disposición de elementos dentro de una página (layout) se posiciona mediante una cuadrícula (grid)
- Esta cuadrícula se organiza en base a filas y columnas
 - Las filas (rows) deben ir contenidas siempre en un contenedor, que puede ser de dos tipos:
 - class="container": ancho fijo
 - class="container-fluid": ancho total
 - Las columnas (cols) van dentro de las filas



La cuadrícula se divide en 12 columnas:

1	1	1	1	1	1	1	1	1	1	1	1
4		4 4									
4			8								
6				6							
	12										

- La cuadrícula está formada por 4 clases:
 - xs: para teléfonos (ancho<768px)</p>
 - sm: para tabletas (768px≤ancho<992px)</p>
 - md: para escritorios (992px≤ancho<1200px)</p>
 - 1g: para escritorios grandes (ancho≥1200px)

Este sistema es adaptable (responsive) en Bootstrap, de modo que se organizará de forma relativa al tamaño de la pantalla

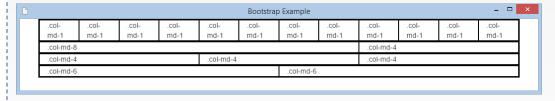


• Ancho para class="container":

Tamaño	Ancho columna	Espacio entre columnas (<i>gutter</i>)	
lg	70 px	30 px	
md	42 px	20 px	
sm	Columnas fluidas, no hay tamaños fijos		
XS	Columnas fluidas, no hay tamaños fijos		



```
<div class="container">
    <div class="row">
        <div class="col-md-1">.col-md-1</div>
        <div class="col-md-1">.col-md-1</div>
    </div>
    <div class="row">
        <div class="col-md-8">.col-md-8</div>
        <div class="col-md-4">.col-md-4</div>
    </div>
    <div class="row">
        <div class="col-md-4">.col-md-4</div>
        <div class="col-md-4">.col-md-4</div>
        <div class="col-md-4">.col-md-4</div>
    </div>
    <div class="row">
        <div class="col-md-6">.col-md-6</div>
        <div class="col-md-6">.col-md-6</div>
    </div>
</div>
```



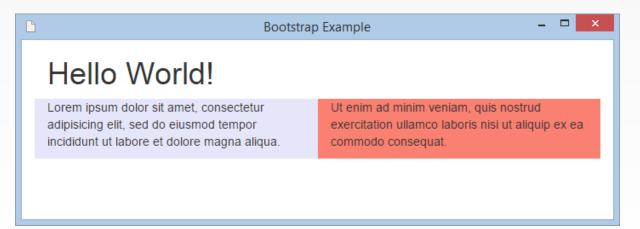


Hello World!

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Bootstrap Example - □ ×

Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.



ne on Cith

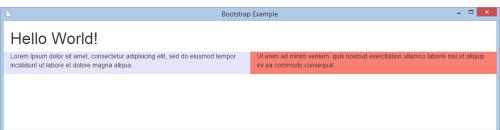


Hello World!

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Ut enim ad minim veniam, quis nostrua exercitation ultamico laboris nisi ut aliquip ex ea commodo consequat.





on Cith



```
<div class="container">
         <h1>Hello World!</h1>
         <div class="row">
                 <div class="col-xs-2 col-sm-3 col-md-4 col-lg-6" style="background-color: lavender;">
                         Lorem ipsum ...
                 </div>
                 <div class="col-xs-10 col-sm-9 col-md-8 col-lq-6" style="background-color: salmon;">
                         Ut enim ...
                 </div>
         </div>
 </div>
                                                                                                                                             Bootstrap Example
Hello World!
                                   Hello World!
                                                                                                      Hello World!
                                   Lorem ipsum dolor sit.
                                   amet, consectetur
                                                                                                      Lorem ipsum dolor sit amet, consectetur
                                                                                                                                     Ut enim ad minim veniam, quis nostrud exercitation uliamco laboris nisi ut aliquip ex ea comm
                                   adipisicing ellt, sed do
                                                                                                      adipisicing elit, sed do eiusmod tempor
                                                                                                                                     consequat. Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium
                                                                                                      incididunt ut labore et dolore magna aliqua.
                                                                                                                                     doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi
                                   incididunt ut labore et
                                   dolore magna aliqua.
                                                                                                                                     architecto beatae vitae dicta sunt explicabo
                                                                                                                                                                    _ 🗆 ×
                                                                                         Bootstrap Example
                           Hello World!
                           Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor
                                                                                                   Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea
                           incididunt ut labore et dolore magna aligua.
                                                                                                   commodo conseguat. Sed ut perspiciatis unde omnis iste natus error sit voluptatem
                                                                                                   accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo
                                                                                                   inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo.
```



- Podemos visualizar como se ajusta nuestra plantilla a diferentes tamaños de pantalla usando las herramientas de depuración de Google Chrome
- Además, existen herramientas online para ver nuestra aplicación web en diferentes dispositivos/pantallas:
 - http://quirktools.com/screenfly/
 - http://www.viewlike.us/
 - http://www.infobyip.com/testwebsiteresolution.php



Cabeceras

Etiquetas h1 a h6

```
<div class="container">
  <h1>h1 Bootstrap heading (36px)</h1>
  <h2>h2 Bootstrap heading (30px)</h2>
  <h3>h3 Bootstrap heading (24px)</h3>
  <h4>h4 Bootstrap heading (18px)</h4>
  <h5>h5 Bootstrap heading (14px)</h5>
  <h6>h6 Bootstrap heading (12px)</h6>
</div>
```

h1 Bootstrap heading (36px)

h2 Bootstrap heading (30px)

h3 Bootstrap heading (24px)

h4 Bootstrap heading (18px)

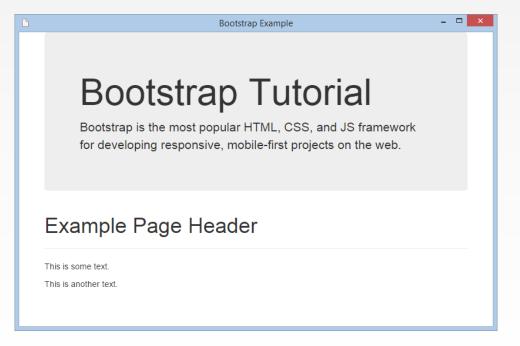
h5 Bootstrap heading (14px)

h6 Bootstrap heading (12px)



Titulares

Clases jumbotron y page-header:





Efectos de texto

• Etiquetas mark, abbr, blockquote, footer:

```
Vise the mark element to <mark>highlight</mark> text.
The <abbr title="World Health Organization">WHO</abbr> was founded in 1948.
<blockquote>
    For 50 years, WWF has been protecting the future of nature. The world's leading conservation organization, WWF works in 100 countries and is supported by 1.2 million members in the United States and close to 5 million globally.
    <footer>From WWF's website</footer>
</blockquote>
```

Use the mark element to highlight text.

The WHO was founded in 1948.

For 50 years, WWF has been protecting the future of nature. The world's leading conservation organization, WWF works in 100 countries and is supported by 1.2 million members in the United States and close to 5 million globally.

- From WWF's website



Efectos de color

Clases text-* y bg-*:

```
<h2>Contextual Colors</h2>
Vise the contextual classes to provide "meaning"
through colors":
This text is muted.
This text is important.
This text indicates success.
This text represents some
information.
This text represents a
warning.
This text represents danger.
<h2>Contextual Backgrounds</h2>
Very the contextual background classes to provide
"meaning through colors":
This text is important.
This text indicates success.
This text represents some
information.
This text represents a
warning.
This text represents danger.
```

Contextual Colors

Use the contextual classes to provide "meaning through colors":

This text is muted.

This text is important.

This text indicates success.

This text represents some information.

This text represents a warning.

This text represents danger.

Contextual Backgrounds

Use the contextual background classes to provide "meaning through colors":

This text is important.

This text indicates success.

This text represents some information.

This text represents a warning.

This text represents danger.

A ne on Girl



Efectos de código

Etiquetas kbd y pre:

```
Use <kbd>ctrl + p</kbd> to open
the Print dialog box.
For multiple lines of code, use
the pre element:

Text in a pre element
is displayed in a fixed-width
font, and it preserves
both spaces and
line breaks.
```

Use ctrl + p to open the Print dialog box.

For multiple lines of code, use the pre element:

Text in a pre element
is displayed in a fixed-width
font, and it preserves
both spaces and
line breaks.

Más efectos de texto:

http://www.w3schools.com/bootstrap/bootstrap_ref_css_text.asp



Tabla básica

Clase table:

Basic Table

The .table class adds basic styling (light padding and only horizontal dividers) to a table:

Firstname	Lastname	Email
John	Doe	john@example.com
Mary	Moe	mary@example.com
July	Dooley	july@example.com

```
<h2>Basic Table</h2>
The .table class adds basic styling
(light padding and only horizontal
dividers) to a table:
<thead>
    >
       Firstname
       Lastname
       Email
    </thead>
  John
       Doe
       john@example.com
    \langle t.r \rangle
       Mary
       Moe
       mary@example.com
    July
       Dooley
       july@example.com
```



Tabla estilo cebra

Clase table-striped:

Striped Rows

The .table-striped class adds zebra-stripes to a table:

Firstname	Lastname	Email
John	Doe	john@example.com
Mary	Moe	mary@example.com
July	Dooley	july@example.com

```
<h2>Striped Rows</h2>
The .table-striped class adds
zebra-stripes to a table:
<thead>
    Firstname
      Lastname
      Email
    </thead>
  John
      Doe
     john@example.com
    Mary
      Moe
      mary@example.com
    July
     Dooley
     july@example.com
```



Tabla con borde

• Clase table-bordered:

Bordered Table

The .table-bordered class adds borders to a table:

Firstname	Lastname	Email
John	Doe	john@example.com
Mary	Мое	mary@example.com
July	Dooley	july@example.com

```
<h2>Bordered Table</h2>
The .table-bordered class adds
borders to a table:
<thead>
   Firstname
      Lastname
      Email
    </thead>
  John
      Doe
     john@example.com
    Mary
      Moe
      mary@example.com
    July
     Dooley
     july@example.com
```



Tabla con efecto roll-over

Clase table-hover:

Hover Rows

The .table-hover class enables a hover state on table rows:

Firstname	Lastname	Email
John	Doe	john@example.com
Mary	Moe	mary@example.com
July	Dooley	july@example.com

```
<h2>Hover Rows</h2>
The .table-hover class enables a
hover state on table rows:
<thead>
    Firstname
      Lastname
      Email
    </thead>
  John
      Doe
      john@example.com
    Mary
      Moe
      mary@example.com
    July
      Dooley
      july@example.com
```



Tablas

Tabla condensada

• Clase table-condensed:

Condensed Table

The .table-condensed class makes a table more compact by cutting cell padding in half:

Firstname	Lastname	Email
John	Doe	john@example.com
Mary	Moe	mary@example.com
July	Dooley	july@example.com

```
<h2>Condensed Table</h2>
The .table-condensed class makes a
table more compact by cutting cell
padding in half:
<thead>
    Firstname
      Lastname
      Email
    </thead>
  John
      Doe
      john@example.com
    Mary
      Moe
      mary@example.com
    July
      Dooley
      july@example.com
```



Tabla con color de fondo

Clases de fila success, danger, info:

Contextual Classes

Contextual classes can be used to color table rows or table cells. The classes that can be used are: .active, .success, .info, .warning, and .danger.

Firstname	Lastname	Email
John	Doe	john@example.com
Mary	Мое	mary@example.com
July	Dooley	july@example.com

```
<h2>Contextual Classes</h2>
Contextual classes can be used to
color table rows or table cells. The
classes that can be used are: .active,
.success, .info, .warning, and
.danger.
<thead>
    \langle t.r \rangle
       Firstname
       Lastname
       Email
    </thead>
  John
       Doe
       john@example.com
    Mary
       Moe
       mary@example.com
    July
       Dooley
       july@example.com
```



Bordes redondeados

Clase img-rounded:

Rounded Corners

The .img-rounded class adds rounded corners to an image (not available in IE8):



```
<h2>Rounded Corners</h2>
The .img-rounded class
adds rounded corners to an
image (not available in
IE8):
<img src="cinqueterre.jpg"
class="img-rounded"
alt="Cinque Terre"
width="304" height="236">
```

it ne on Cirta



Marco circular

Clase img-circle:

Circle

The .img-circle class shapes the image to a circle (not available in IE8):



```
<h2>Circle</h2>
The .img-circle class
shapes the image to a circle
(not available in IE8):
<img src="cinqueterre.jpg"
class="img-circle"
alt="Cinque Terre"
width="304" height="236">
```



Miniatura

Clase img-thumbnail:

Thumbnail

The .img-thumbnail class creates a thumbnail of the image:



```
<h2>Thumbnail</h2>
The .img-thumbnail class
creates a thumbnail of the
image:
<img src="cinqueterre.jpg"
class="img-thumbnail"
alt="Cinque Terre"
width="304" height="236">
```



Imagen adaptable

■ Clase img-responsive:





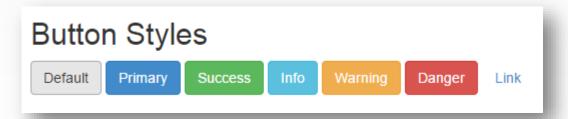
<h2>Responsive image</h2>
The .img-responsive class
makes the image scale nicely
to the parent element (resize
the browser window to see the
effect):
<img class="img-responsive"
src="img_chania.jpg"
alt="Chania" width="460"
height="345">



S The On Githing

Estilos de botones

• Clases btn, btn-default, btn-primary, btn-success, btn-info, btn-warning, btn-danger, btn-link:

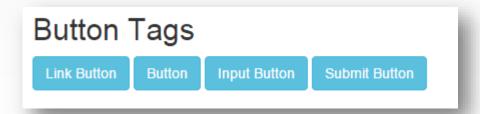




Etiquetas usadas para botones

• Las clases btn y btn-* se pueden asociar a las etiquetas a, button, input type="button", input type="submit":

```
<h2>Button Tags</h2>
<a href="#" class="btn btn-info" role="button">Link Button</a>
<a href="#" class="btn btn-info">Button</a>
<br/>
<button type="button" class="btn btn-info" value="Input Button">
<input type="button" class="btn btn-info" value="Submit Button">
<input type="submit" class="btn btn-info" value="Submit Button">
```

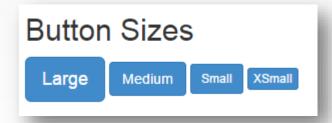




Tamaño de botones

■ Clases btn-lg, btn-md, btn-sm, btn-xs:

```
<h2>Button Sizes</h2>
<button type="button" class="btn btn-primary btn-lg">Large</button>
<button type="button" class="btn btn-primary btn-md">Medium</button>
<button type="button" class="btn btn-primary btn-sm">Small</button>
<button type="button" class="btn btn-primary btn-xs">XSmall</button>
<button type="button" class="btn btn-primary btn-xs">XSmall</button>
```

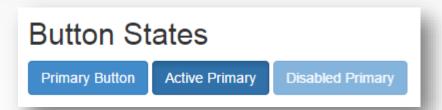




Estado de botones

Clases active, disabled:

```
<h2>Button States</h2>
<button type="button" class="btn btn-primary">Primary Button</button>
<button type="button" class="btn btn-primary active">Active Primary</button>
<button type="button" class="btn btn-primary disabled">Disabled Primary</button>
```





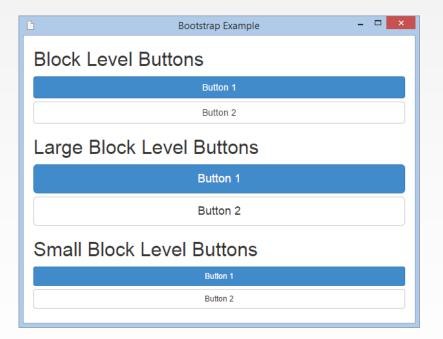
Botones tamaño bloque

Clase btn-block:

```
<h2>Block Level Buttons</h2>
<button type="button" class="btn btn-primary
btn-block">Button 1</button>
<button type="button" class="btn btn-default
btn-block">Button 2</button>

<h2>Large Block Level Buttons</h2>
<button type="button" class="btn btn-primary
btn-lg btn-block">Button 1</button>
<button type="button" class="btn btn-default
btn-lg btn-block">Button 1</button>
<button type="button" class="btn btn-default
btn-lg btn-block">Button 2</button>

<h2>Small Block Level Buttons
<button type="button" class="btn btn-primary
btn-sm btn-block">Button 1</button>
<button type="button" class="btn btn-default
btn-sm btn-block">Button 1</button>
<button type="button" class="btn btn-default
btn-sm btn-block">Button 2</button>
```



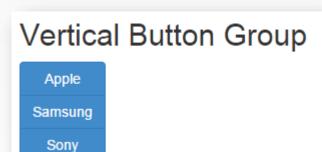


Grupos de botones

■ Clases btn-group y btn-group-vertical:

```
Button Group

Apple Samsung Sony
```



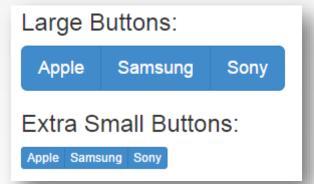


Botones

Tamaño del grupos de botones

Clases btn-group-lg y btn-group-xs:

```
<h2>Button Groups - Set Sizes</h2>
Add class .btn-group-* to size all buttons in a button
group.
<h3>Large Buttons:</h3>
<div class="btn-group btn-group-lg">
    <button type="button" class="btn btn-primary">Apple</button>
    <button type="button" class="btn btn-</pre>
primary">Samsung</button>
    <button type="button" class="btn btn-primary">Sony</button>
</div>
<h3>Extra Small Buttons:</h3>
<div class="btn-group btn-group-xs">
    <button type="button" class="btn btn-primary">Apple</button>
    <button type="button" class="btn btn-</pre>
primary">Samsung</button>
    <button type="button" class="btn btn-primary">Sony</button>
</div>
```





Botones

Botones anidados

Clases dropdown-toggle y dropdown:

```
<h2>Nesting Button Groups</h2>
Nest button groups to create drop down menus:
<div class="btn-group">
   <button type="button" class="btn btn-primary">Apple</button>
   <button type="button" class="btn btn-primary">Samsung</button>
   <div class="btn-group">
       <button type="button" class="btn btn-primary dropdown-</pre>
toggle" data-toggle="dropdown">
           Sony <span class="caret"></span>
                                                        Nesting Button Groups
       </but.ton>
       Nest button groups to create drop down menus:
           <a href="#">Tablet</a>
           Apple
                                                                Samsung
                                                                         Sony -
           <a href="#">Smartphone</a>
           Tablet
   </div>
                                                                          Smartphone
</div>
```



Iconos

- Bootstrap proporciona 200 iconos libres de la librería Glyphicons
- Se pueden insertar iconos en texto, botones, formularios, etc
- Se insertan con las clases glyphicon y glyphicon-*:

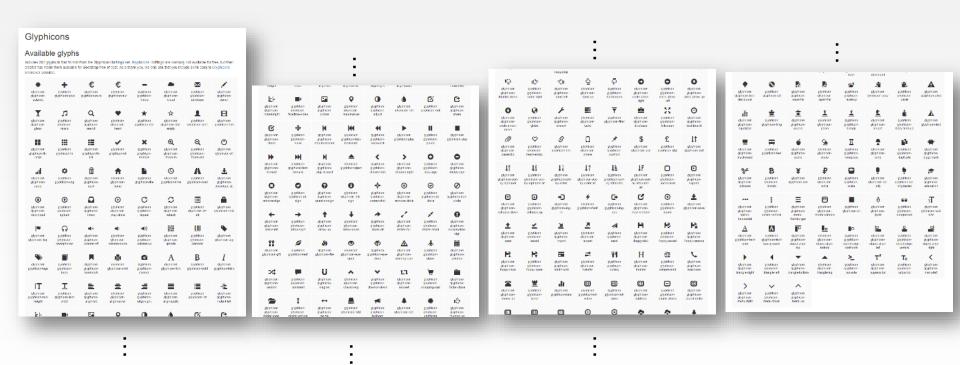
```
<h2>Glyphicon Examples</h2>
Envelope icon: <span class="glyphicon glyphicon-envelope"></span>
Envelope icon as a link:
   <a href="#"><span class="qlyphicon qlyphicon-envelope"></span></a>
Search icon: <span class="glyphicon glyphicon-search"></span>
Search icon on a button:
   <button type="button" class="btn btn-default">
       <span class="glyphicon glyphicon-search"></span> Search
   </button>
Search icon on a styled button:
   <button type="button" class="btn btn-info">
       <span class="glyphicon glyphicon-search"></span> Search
   </button>
Print icon: <span class="glyphicon glyphicon-print"></span>
Print icon on a styled link button:
   <a href="#" class="btn btn-success btn-lq">
       <span class="glyphicon glyphicon-print"></span> Print
   </a>
```





Iconos

Colección completa en http://getbootstrap.com/components/





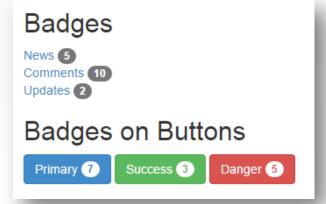
Iconos

Indicadores numéricos

Clase badge:

```
<h2>Badges</h2>
<a href="#">News <span class="badge">5</span></a><br>
<a href="#">Comments <span class="badge">10</span></a><br>
<a href="#">Updates <span class="badge">2</span></a>

<h2>Badges on Buttons</h2>
<br/>
<button type="button" class="btn btn-primary">Primary <span class="badge">7</span></button>
<button type="button" class="btn btn-success">Success <span class="badge">3</span></button>
<button type="button" class="btn btn-danger">Danger <span class="badge">5</span></button>
<button</pre>
```





Clases progress y progress-bar en elementos <div>:

```
Ork ne on Girk
```

Basic Progress Bar

WAI-ARIA = Web Accessibility Initiative - Accessible Rich Internet Applications

Progress Bar With Label

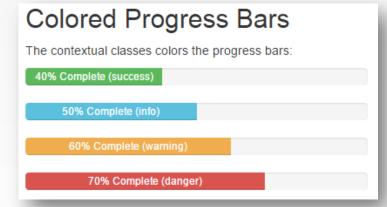
70%



Barras coloreadas

Clases progress-bar-*:

```
<h2>Colored Progress Bars</h2>
The contextual classes colors the progress bars:
<div class="progress">
    <div class="progress-bar progress-bar-success"</pre>
role="progressbar" aria-valuenow="40" aria-valuemin="0" aria-
valuemax="100" style="width:40%">40% Complete (success)
</div>
<div class="progress">
    <div class="progress-bar progress-bar-info"</pre>
role="progressbar" aria-valuenow="50" aria-valuemin="0" aria-
valuemax="100" style="width:50%">50% Complete (info)</div>
</div>
<div class="progress">
    <div class="progress-bar progress-bar-warning"</pre>
role="progressbar" aria-valuenow="60" aria-valuemin="0" aria-
valuemax="100" style="width:60%">60% Complete (warning)</div>
</div>
<div class="progress">
    <div class="progress-bar progress-bar-danger"</pre>
role="progressbar" aria-valuenow="70" aria-valuemin="0" aria-
valuemax="100" style="width:70%">70% Complete (danger)</div>
</div>
```





Barras coloreadas

Clase progress-bar-striped:

```
<h2>Striped Progress Bars</h2>
The .progress-bar-striped class adds stripes to the progress bars:
<div class="progress">
    <div class="progress-bar progress-bar-success progress-bar-striped"</pre>
role="progressbar" aria-valuenow="40" aria-valuemin="0" aria-valuemax="100"
style="width:40%">
        40% Complete (success)</div>
</div>
<div class="progress">
    <div class="progress-bar progress-bar-info progress-bar-striped"</pre>
role="progressbar" aria-valuenow="50" aria-valuemin="0" aria-valuemax="100"
style="width:50%">
        50% Complete (info)</div>
</div>
<div class="progress">
    <div class="progress-bar progress-bar-warning progress-bar-striped"</pre>
role="progressbar" aria-valuenow="60" aria-valuemin="0" aria-valuemax="100"
style="width:60%">
        60% Complete (warning) </div>
</div>
<div class="progress">
    <div class="progress-bar progress-bar-danger progress-bar-striped"</pre>
role="progressbar" aria-valuenow="70" aria-valuemin="0" aria-valuemax="100"
style="width:70%">
        70% Complete (danger)</div>
</div>
```

Striped Progress Bars
The .progress-bar-striped class adds stripes to the progress bars:
40% Complete (success)
50% Complete (info)
60% Complete (warning)
70% Complete (danger)



Barras animadas

■ Clase progress-bar-striped:

Animated Progress Bar

The .active class animates the progress bar:

40%

Barras compuesta

• Múltiple <div class="progress-bar">:

Stacked Progress Bars

Create a stacked progress bar by placing multiple bars into the same div with class .progress:

Free Space

warnin

Danger



Paginación

Clases pagination, active, disabled:

Pagination

The .pagination class provides pagination links:

Add class .active to let the user know which page he/she is on:

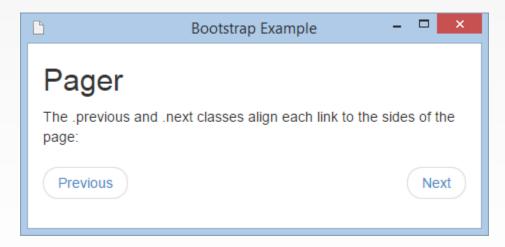
Add class .disabled if a page for some reason is disabled:





Paginación

Clases pager, previous, next:



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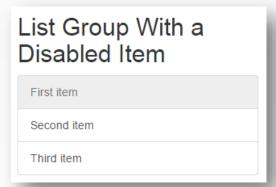


Listas

Clases list-group y list-group-item aplicado a ul:

Basic List Group				
First item				
Second item				
Third item				

Clases list-group y list-group-item aplicado a div y a:



re on City



Listas

Clases list-group-item-* aplicado a ul:

```
List Group With
Contextual Classes

First item
Second item
Third item
Fourth item
```

■ Clases *list-group-item-** aplicado a div y a:

Linked Items With Contextual Classes

First item

Second item

Third item

Fourth item



- Bootstrap proporciona tres layouts para formularios:
 - Vertical (por defecto)
 - En línea (inline)
 - Horizontal
- Se deben seguir las siguientes reglas:
 - Usar siempre <form role="form">
 - Agrupar elementos usando <div class="form-group">
 - Usar la clase form-control en elementos de formulario textuales (input, textarea, select)



Formulario vertical

Email:

Enter email Password:

Enter password

Remember me Submit

```
<h2>Vertical (basic) form</h2>
<form role="form">
   <div class="form-group">
        <label for="email">Email:</label>
        <input type="email" class="form-control" id="email" placeholder="Enter email">
    </div>
   <div class="form-group">
        <label for="pwd">Password:</label>
        <input type="password" class="form-control" id="pwd" placeholder="Enter password">
    </div>
    <div class="checkbox">
        <label><input type="checkbox"> Remember me</label>
    </div>
   <button type="submit" class="btn btn-default">Submit/button>
</form>

    Vertical (basic) form
```

con respecto a los elementos de formulario

Las etiquetas se apilan



Formulario en línea

Clase form-inline:

```
<h2>Inline form</h2>
<form class="form-inline" role="form">
    <div class="form-group">
        <label for="email">Email:</label>
        <input type="email" class="form-control" id="email" placeholder="Enter email">
    </div>
    <div class="form-group">
        <label for="pwd">Password:</label>
        <input type="password" class="form-control" id="pwd" placeholder="Enter password">
    </div>
    <div class="checkbox">
        <label>
            <input type="checkbox"> Remember me</label>
    </div>
    <button type="submit" class="btn btn-default">Submit/button>
</form>
```

Submit

Inline form

Email: Enter email Password: Enter password Remember me

Todas las etiquetas y elementos de formulario se colocan en línea



Formulario horizontal

Remember me

Submit

• Clase Los	rm-norizontai.		
<h2>Horizontal form<td>2></td><td></td><td></td></h2>	2>		
form class="form-hori:	contal" role="form">		
<div class="form-grow</td><td>ıp"></div>			
<label class="con</td><td>ntrol-label col-sm-2" for="em</td><td>ail">Email:</label>			
<div class="col-s</td><td>sm-10"><input cl<="" td="" type="email"/><td>ass="form-control" id="email"</td><td><pre>placeholder="Enter email"></pre></td></div>	ass="form-control" id="email"	<pre>placeholder="Enter email"></pre>	
<pre><div class="form-grou </pre></td><td>-</td><td></td><td></td></tr><tr><td></td><td>ntrol-label col-sm-2" for="pw</td><td></td><td></td></tr><tr><td></td><td>m-10"><input <="" td="" type="password"/><td>class="form-control" id="pwd'</td><td>" placeholder="Enter password"></td></div></pre>	class="form-control" id="pwd'	" placeholder="Enter password">	
<pre><div <="" class="form-ground" pre=""></div></pre>	-		
	sm-offset-2 col-sm-10"> <div c<="" td=""><td>lass="checkbox"><label><input< td=""><td><pre>type="checkbox"> Remember me</pre></td></input<></label></td></div>	lass="checkbox"> <label><input< td=""><td><pre>type="checkbox"> Remember me</pre></td></input<></label>	<pre>type="checkbox"> Remember me</pre>
	# -		
<pre><div class="form-grounding statements of the statement statem</td><td>-</td><td></td><td>defendence (dies</td></tr><tr><td></div></td><td>###-011set-2 C01-s##-10 >< Dutto.</td><td>The type = submit Class = bth bth</td><td>n-default">Submit</div></pre>			
//form> Horizonta	al form		Las etiquetas van en la
Email:	Enter email		misma fila que los
Password:	Enter password		elementos. Se usan las

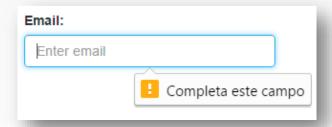
clases col-*-* para definir la cuadricula



Validación de formulario

Atributo required (nativo de HTML5):

```
<div class="form-group">
    <label for="email">Email:</label>
    <input type="email" class="form-control" id="email" placeholder="Enter email" required>
</div>
```





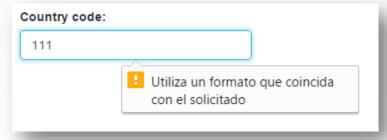
le on City



Validación de formulario

- Atributo pattern (nativo de HTML5)
- Este atributo acepta expresiones regulares JavaScript. Por ejemplo:
 - [0-9]+ : dígitos
 - [A-Za-z] : letra mayúscula o minúscula
 - Más información en http://www.w3schools.com/js/js_regexp.asp
 - Validador online de expresiones regulares: https://regex101.com/

```
<div class="form-group">
  <label for="date">Country code:</label>
  <input type="text" class="form-control" id="country" placeholder="Two letter country code" pattern="[A-Za-z]{2}" required>
</div>
```





Validación de formulario

- Tipos especiales (nativo de HTML5)
- Hay que usarlos con precaución porque no están soportados en todos los navegadores
 - Más información en http://www.w3schools.com/tags/att_input_type.asp
 - Para verificar si un navegador lo implementa visitar http://caniuse.com/

```
<div class="form-group">
   <label for="color">Color:</label>
   <input type="color" class="form-control" id="color" placeholder="Select color">
                                                                                              URL:
</div>
                                                                                               Select URL
                                                                                                         Completa este campo
<div class="form-group">
   <label for="date">Date:</label>
   <input type="date" class="form-control" id="date" placeholder="Select date">
</div>
                                                                                               URL:
                                                                                                google.es
<div class="form-group">
                                                                                                         Introduce una URL
   <label for="date">URL:</label>
   <input type="url" class="form-control" id="url" placeholder="Select URL" required>
</div>
```



Pestañas

■ Clases nav, nav-tabs, dropdown, dropdown-toggle, dropdown-menu:

Home

Menu 1 ▼

Menu 2 Menu 3

ne on Cithu



Menú vertical

■ Clases nav, nav-pills, nav-stacked:

```
Home

Menu 1

Menu 2

Menu 3
```



Menú horizontal

Clases navbar, navbar-inverse, navbar-brand, etc:

```
<nav class="navbar navbar-inverse">
 <div class="container-fluid">
   <div class="navbar-header">
    <a class="navbar-brand" href="#">WebSiteName</a>
   </div>
   <div>
    <a href="#">Home</a>
      <a class="dropdown-toggle" data-toggle="dropdown"</pre>
href="#">Page 1 <span class="caret"></span></a>
        <a href="#">Page 1-1</a>
                                                            Bootstrap Example
         <a href="#">Page 1-2</a>
         <a href="#">Page 1-3</a>
                                                      Page 1 ▼
        Page 1-1
      Page 1-2
      <a href="#">Page 2</a>
                                                       Page 1-3
      <a href="#">Page 3</a>
    </div>
 </div>
</nav>
```



Migas de pan

• Clase breadcrumb:

```
    <a href="#">Home</a>
    <a href="#">Page</a>
```

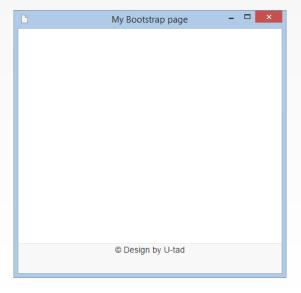
Home / Page 1

the on City



Pie de página

■ Clase navbar-fixed-bottom, etc:





Plantillas

- Algunas plantillas gratuitas de Bootstrap:
 - http://www.bootstrapzero.com/
 - http://bootswatch.com
 - http://bootstraptor.com
 - http://bootstrapstyler.com
 - https://wrapbootstrap.com
 - http://startbootstrap.com