



# JAVIER GARCÍA PÉREZ

Ingeniero Téc. Informática de Gestión  
Especializado en desarrollo Web & Comercio Electrónico

javiergarciaperez.com

@javiergpz

/in/javiergpz



- Introducción
- Arquitectura de Prestashop. Organización de ficheros.
- Accediendo a la BBDD
- Classes. Objeto Context.
- Controllers
- Back office
- Cómo hacer overrides
- Qué son los hooks y su importancia en Prestashop.
- Módulos. Conceptos básicos
- Themes
- Prestashop 1.7 Qué hay de nuevo

## PRESTASHOP Su crecimiento

- => CMS de Código abierto
- => Para desarrollo en Tiendas Online
- => PHP Orientado a Objetos ( $\geq 5.2$ )
- => SQL
- => HTML, Smarty, CSS, Javascript, ...
- => jQuery, Bootstrap, Sass, ...

## ECOSISTEMA

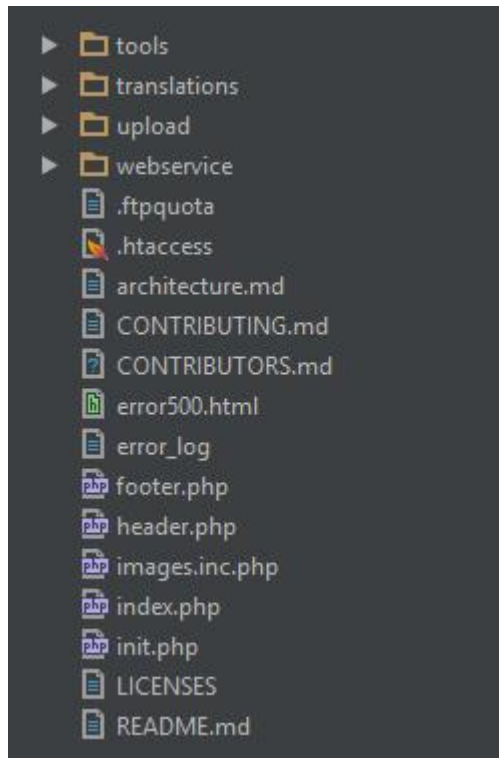
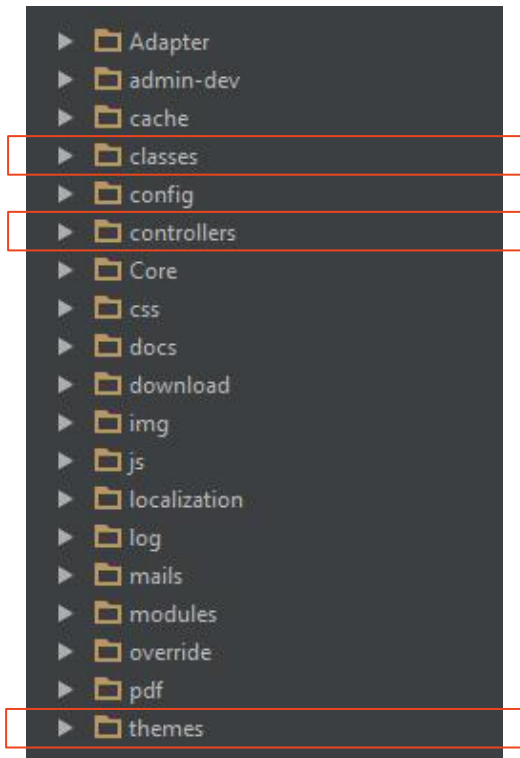
### Tiendas/carritos online código abierto



Según Xopie, Equipo de Tecnologías Digitales y Omnicanal de BBVA  
Noviembre 2014

## Arquitectura de 3 capas de PrestaShop





/config/defines.inc.php

```
define('_PS_DEBUG_PROFILING_', true);
```

```
define('_PS_MODE_DEV_', false);
```

## ARQUITECTURA

Load Time	1237 ms - OK... for a shared hosting	PrestaShop Version	1.6.1.4
Querying Time	113 ms	PHP Version	5.5.19 (OK)
Queries	258	MySQL Version	5.5.48-cll (Consider upgrading)
Memory Peak Usage	33.9 Mb	Memory Limit	128M
Included Files	220 files - 4.03 Mb	Max Execution Time	30s
PrestaShop Cache	- Mb	Smarty Cache	disabled
Global vars	0.70 Mb	Smarty Compilation	auto

	Time	Cumulated Time	Memory Usage	Memory Peak Usage
config	273 ms	273 ms	10.78 Mb	10.90 Mb
__construct	0 ms	273 ms	- Mb	10.90 Mb
init	68 ms	361 ms	3.52 Mb	14.37 Mb
checkAccess	0 ms	361 ms	- Mb	14.37 Mb
setMedia	5 ms	366 ms	0.23 Mb	14.60 Mb
postProcess	0 ms	366 ms	- Mb	14.60 Mb
initHeader	0 ms	366 ms	0.01 Mb	14.60 Mb
initContent	768 ms	1134 ms	17.07 Mb	32.11 Mb
initFooter	73 ms	1207 ms	1.00 Mb	32.89 Mb
display	30 ms	1237 ms	0.78 Mb	33.91 Mb

```
define('_PS_DEBUG_PROFILING_', true);
```

## Stopwatch SQL - 258 queries

Query	Time (ms)	Rows	Filesort	Group By	Location
<pre>SELECT SQL_NO_CACHE c1.*,c.*, c1.`name` country, z.`name` zone FROM `ps_country` c INNER JOIN ps_country_shop country_shop ON (country_shop.id_country = c.id_country AND country_shop.id_shop = 1) LEFT JOIN `ps_country_lang` cl ON (c.`id_country` = cl.`id_country` AND cl.`id_lang` = 1) LEFT JOIN `ps_zone` z ON (z.`id_zone` = c.`id_zone`) WHERE 1 ORDER BY c1.name ASC</pre>	6	244	Yes		/classes/Country.php:131
<pre>SELECT SQL_NO_CACHE h.`name` as hook, m.`id_module`, h.`id_hook`, m.`name` as module, h.`live_edit` FROM `ps_module` m INNER JOIN ps_module_shop module_shop ON (module_shop.id_module = m.id_module AND module_shop.id_shop = 1 AND module_shop.enable_device &amp; 1) INNER JOIN `ps_module_shop` ms ON ms.`id_module` = m.`id_module` INNER JOIN `ps_hook_module` hm ON hm.`id_module` = m.`id_module` INNER JOIN `ps_hook` h ON hm.`id_hook` = h.`id_hook` LEFT JOIN `ps_module_group` `mg` ON mg.`id_module` = m.`id_module` WHERE (h.name != "displayPayment") AND (hm.id_shop = 1) AND (mg.id_shop = 1 AND mg.`id_group` IN (1)) GROUP BY hm.id_hook, hm.id_module ORDER BY hm.`position`</pre>	4.6	70	Yes	Yes	/classes/Hook.php:355
<pre>SELECT SQL_NO_CACHE p.*, product_shop.*, stock.out_of_stock, IFNULL(stock.quantity, 0) AS quantity, IFNULL(product_attribute_shop.id_product_attribute, 0) AS id_product_attribute, product_attribute_shop.minimal_quantity AS product_attribute_minimal_quantity, pl.`description`, pl.`description_short`, pl.`available_now`, pl.`available_later`, pl.`link_rewrite`, pl.`meta_description`, pl.`meta_keywords`, pl.`meta_title`, pl.`name`, image_shop.`id_image` id_image,</pre>					



```
define('_PS_DEBUG_PROFILING_', true);
```

ObjectModel instances		
Name	Instances	Source
Category	24	/modules/blocktopmenu/blocktopmenu.php [599]
		/modules/blocktopmenu/blocktopmenu.php [599]
		/modules/blocktopmenu/blocktopmenu.php [599]
		/modules/blocktopmenu/blocktopmenu.php [599]
		/modules/blocktopmenu/blocktopmenu.php [599]
		/modules/blocktopmenu/blocktopmenu.php [599]
		/modules/blocktopmenu/blocktopmenu.php [599]
		/modules/blocktopmenu/blocktopmenu.php [599]
		/modules/blocktopmenu/blocktopmenu.php [599]
		/modules/blocktopmenu/blocktopmenu.php [599]
		/modules/blocktopmenu/blocktopmenu.php [599]
		/modules/blocktopmenu/blocktopmenu.php [599]
		/modules/blocktopmenu/blocktopmenu.php [599]
		/modules/blocktopmenu/blocktopmenu.php [599]
		/modules/blocktopmenu/blocktopmenu.php [599]
		/modules/blocktopmenu/blocktopmenu.php [599]
		/modules/blocktopmenu/blocktopmenu.php [599]
		/modules/homefeatured/homefeatured.php [125]
		/classes/Link.php [177]
		/classes/Link.php [177]
		/classes/Link.php [177]
		/classes/Link.php [177]
		/classes/Link.php [177]
		/classes/Link.php [177]
		/classes/Link.php [177]
		/classes/Link.php [177]
Carrier	12	/classes/Cart.php [1863]
		/classes/Cart.php [1863]
		/classes/Cart.php [3948]
		/classes/Cart.php [2886]
		/classes/Cart.php [3948]
		/classes/Cart.php [2118]
		/classes/Cart.php [3948]
		/classes/Cart.php [2886]
		/classes/Cart.php [3948]
		/classes/Cart.php [2118]
		/classes/Cart.php [2303]

/config/settings.inc.php

## clase DB

Para queries de escritura, INSERT, UPDATE, DELETE, TRUNCATE..

```
Db::getInstance()->execute($sql);
```

Para queries de lectura, SELECT, SHOW..

```
$sql = 'SELECT * FROM ..';  
Db::getInstance()->executeS($sql);
```

Coge la primera fila de los resultados:

```
Db::getInstance()->getRow($sql);
```

El primer valor de la primera fila de resultados:

```
$sql = 'SELECT COUNT(*) FROM '.$_DB_PREFIX_.'shop';  
Db::getInstance()->getValue($sql);
```

### Otras funciones:

numRows()

insert\_ID()

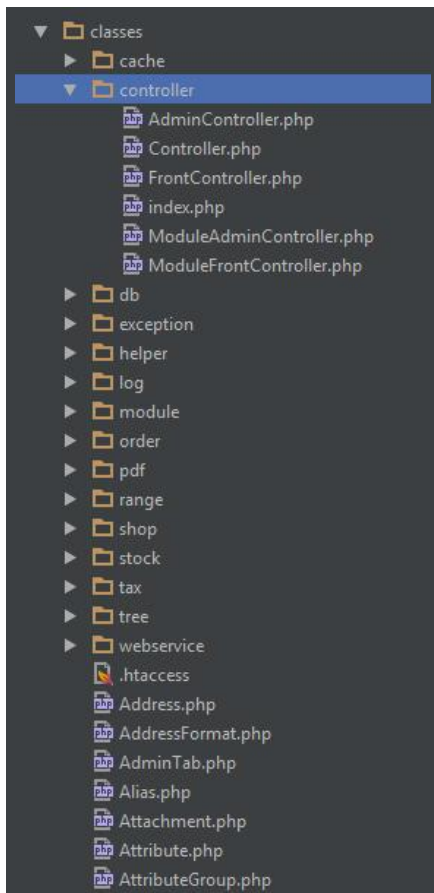
affected\_Rows()

getMsgError()

getNumberError()

## class DBQuery **Query builder**

```
$sql = new DbQuery();  
$sql->select('*');  
$sql->from('cms', 'c');  
$sql->innerJoin('cms_lang', 'l', 'c.id_cms = l.id_cms AND l.id_lang = ' . (int)$id_lang);  
$sql->where('c.active = 1');  
$sql->orderBy('position');  
return Db::getInstance()->executeS($sql);
```



## FrontController.php

inicialización de las columnas

Info a partir de la cookie => cliente, carrito, etc...

```
public function initContent() { ... }
```

```
    'HOOK_HEADER'
```

```
    'HOOK_TOP'
```

```
    'HOOK_LEFT_COLUMN'
```

```
    'HOOK_RIGHT_COLUMN'
```

```
public function displayHeader($display = true) { ... }
```

```
public function setMedia() { ... }
```

y otras funciones: addCSS(), addJS(), setTemplate(), ...

## Category.php

```
class CategoryCore extends ObjectModel { ... }
```

```
public static $definition = array(
    'table' => 'category',
    'primary' => 'id_category',
    'multilang' => true,
    'multilang_shop' => true,
    'fields' => array(
        ...
        'id_parent' => array('type' => self::TYPE_INT, 'validate' => 'isUnsignedInt'),
        'id_shop_default' => array('type' => self::TYPE_INT, 'validate' => 'isUnsignedId'),
        'is_root_category' => array('type' => self::TYPE_BOOL, 'validate' => 'isBool'),
        /* Lang fields */
        'name' => array('type' => self::TYPE_STRING, 'lang' => true, 'validate' =>
            'isCatalogName', 'required' => true, 'size' => 128),
        'link_rewrite' => array('type' => self::TYPE_STRING, 'lang' => true, 'validate' =>
            'isLinkRewrite', 'required' => true, 'size' => 128),
        'description' => array('type' => self::TYPE_HTML, 'lang' => true, 'validate' =>
            'isCleanHtml'),
        ...
    )
);
```

## OBJETO Context

En Prestashop no se crean sesiones

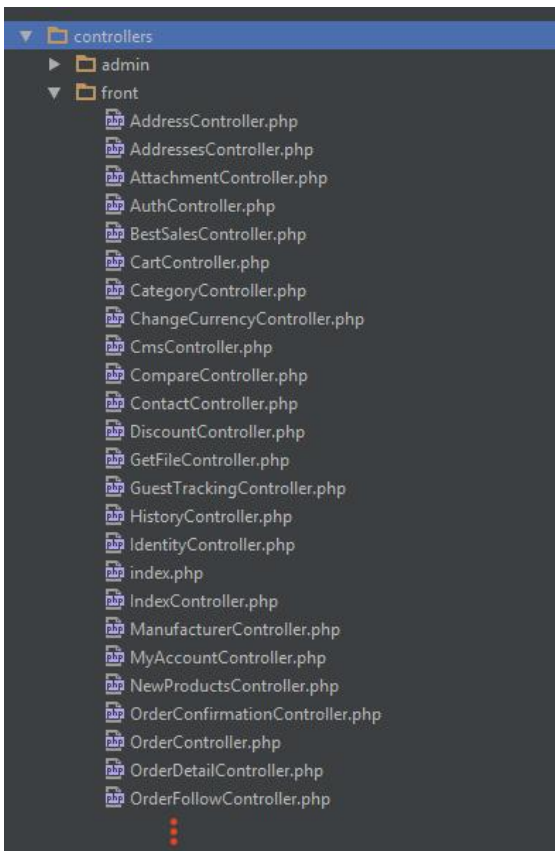
Contenido:

- => Información propia de Prestashop
- => Cookie
- => cliente
- => empleado
- => carrito
- => Smarty..

Clase que extiende a Controller, AdminTab o Module: `$this->context->language->id`

Desde otro sitio: `Context::getContext()`

## CONTROLLERS



```
class AdminProductsControllerCore extends AdminController { ... }
```

```
class ProductControllerCore extends FrontController { ... }
```

```
__construct()
```

```
init()
```

```
setMedia()
```

```
postProcess()
```

```
initHeader()
```

```
initContent()
```

```
initFooter()
```

```
display()
```

## ESTRUCTURA DEL BACKOFFICE

### AdminController

/admin-dev (cambiar nombre)

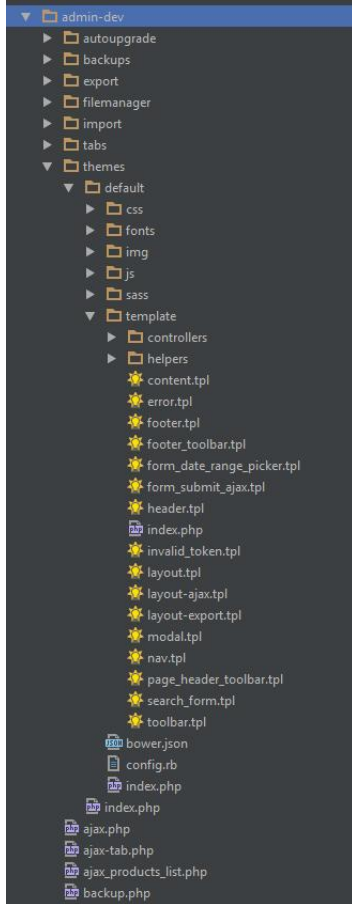
=> controllers.

Se corresponden con cada sección del BO

Extienden los helpers

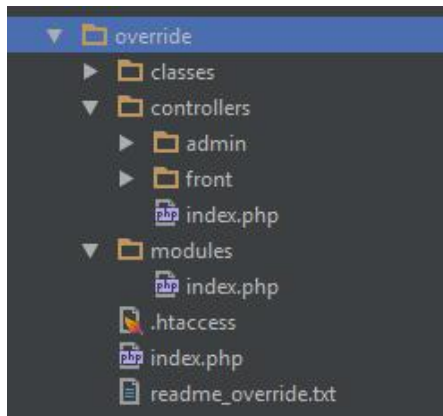
Permiten hacer overrides

=> helpers. Bloques de código que usaremos para manejar la información.





## CÓMO HACER OVERRIDES



Borrar /cache/class\_index.php

Módulos, a partir de la v 1.6.0.9. (Tpl, css y js se hace el override en las carpetas del tema)

```
class FrontController extends FrontControllerCore
{
    public function init()
    {
        parent::init();
        => Controller:: init();
        ...
    }
}
```

## QUÉ SON LOS HOOKS

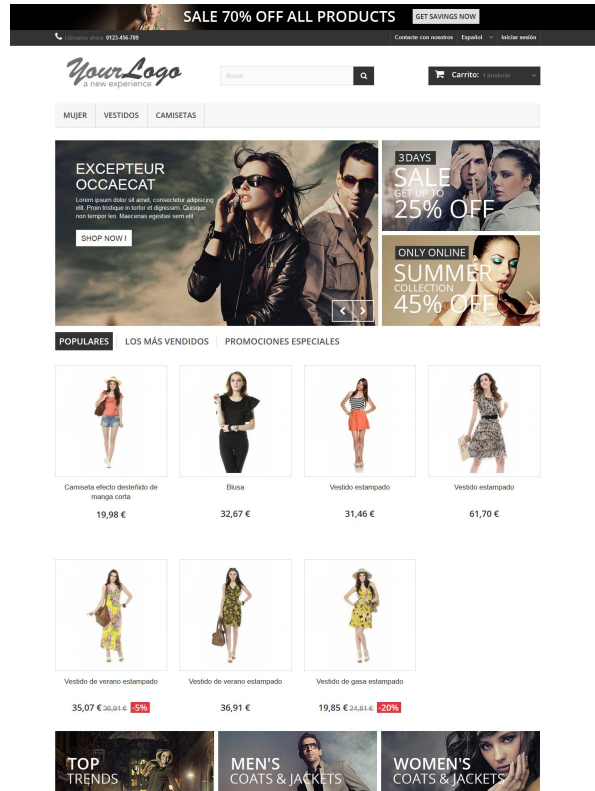
Dos tipos:

=> Posiciones: `displayHeader`  
`displayFooter`  
`displayRightColumnProduct`

...

=> Acciones / Eventos: `actionProductAdd`  
`actionAuthentication`

...



## USANDO LOS HOOKS

Crear un hook: BBDD, SQL o Registro.

```
public function install()
{
    return parent::install() && $this->registerHook('displayPhpSevilla');
}
```

...en un módulo

```
public function hookDisplayPhpSevilla($params){ ... }
```

...en un controlador:

```
$this->context->smarty->assign('HOOK_PHP_SEVILLA',
Module::hookExec('displayPhpSevilla'));
```

...en un tpl

```
{if isset($HOOK_PHP_SEVILLA) && $HOOK_PHP_SEVILLA}{$HOOK_PHP_SEVILLA}{/if}
{hook h='displayPhpSevilla' mod='nombreModulo'}
```

## MÓDULOS Conceptos básicos

Instalación:

- Registrar hooks

- Crear variables en 'Configuration'

```
Configuration::updateValue('NOMBRE_VAR', 20);
```

- Crear tablas en BBDD

BackOffice:

- getContent()

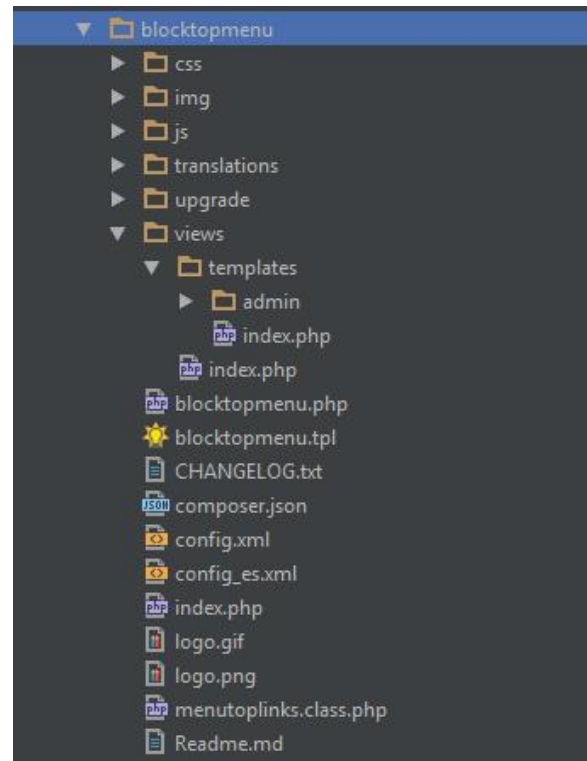
  - => renderList(): HelperList()

  - => renderForm(): HelperForm()

FrontOffice:

- hookDisplayTop()

...



## MÓDULOS Conceptos básicos

### Idiomas

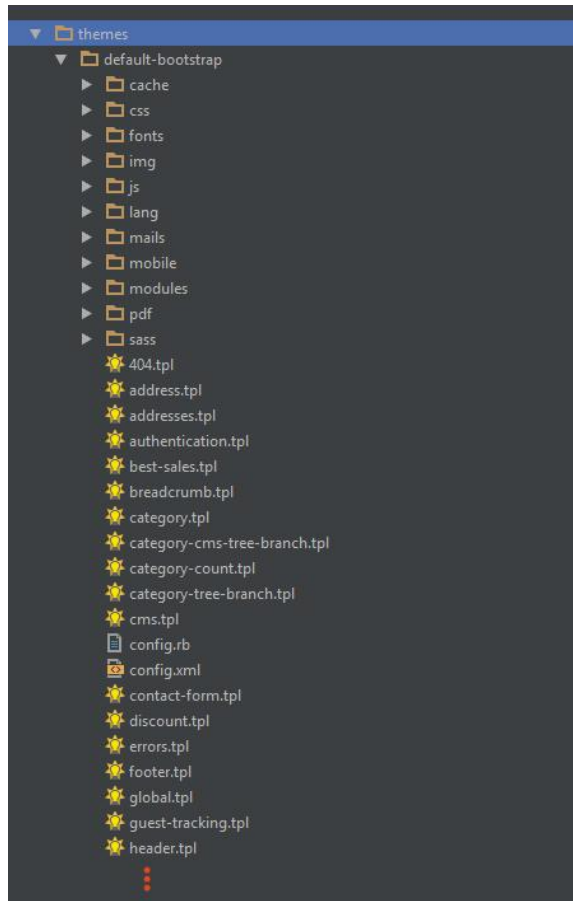
```
PHP: $this->l('Módulo de Php Sevilla');
```

```
tpl: {l s='Aprendiendo Prestashop!' mod='phpSevillaModule'}
```

```
js: {addJsDefL name=variableJS}{l s='Pasando texto al JS' js=1}{/addJsDefL}
```

### Upgrade

```
function upgrade_module_1_6($object)
{
    return ($object->registerHook('actionObjectCategoryAddAfter'));
}
```



## THEMES

La mayoría de los clientes pedirán cambios de diseño y maquetación

Motor de plantillas: Smarty

Responsive: 1.5 a 1.6 el cambio más significativo, integración de Bootstrap

Módulos: overrides de css, js, tpl

Activar / desactivar módulos según dispositivo

## Prestashop 1.7 **Novedades**

Integrado con Symfony 2.8

=> Product. Se simplifica el flujo de creación de un producto

=> Modules. Mejor gestión de los módulos instalados

Themes

=> Starter theme. Aseguran la creación de un tema en una semana

=> Classic Theme

Reestructuración del back office

Simplificación JS/CSS: `theme.js` / `theme.css`

¿Y Symfony 3?





## Enlaces de **interés**

Guía del desarrollador para 1.6

<http://doc.prestashop.com/display/PS16/Developer+Guide>

Blog desarrollo

<http://build.prestashop.com/>

<http://build.prestashop.com/news/prestashop-1-7-faq/>

Github Prestashop 1.7

<https://github.com/PrestaShop/PrestaShop>

Foro

<https://www.prestashop.com/forums/>

Google

<https://www.google.es>

# GRACIAS

## ¡¡CERVEZA!!