

Как разбираться в коде без документации на примере WooCommerce

Екатерина Леурдо
Бэк-енд Wordpress разработчик
CDK Computers

Зачем вообще разбираться в коде?

```
require_once($_SERVER['DOCUMENT_ROOT'].'/wp-blog-header.php');
ini_set('memory_limit', '-1');
set_time_limit(0);
$all_products = $wpdb->get_results("SELECT * FROM {$wpdb->prefix}posts
WHERE post_type='product' AND post_status='publish'
");
```

Реальный образец wordpress-
разработки из моей жизни

Woocommerce – плагин магазина под Wordpress

- Наиболее распространенное решение для E-commerce – около 1 млн площадок
- Бесплатный, с открытым исходным кодом
- Сотни дополнений и расширений
- Первая версия вышла в сентябре 2011 г
- В мае 2016 года был приобретен Automatic
- 317 релизов в гитхабе, версия 3.3.5 вышла 10 апреля 2018 г.

Хуки и фильтры

woocommerce/templates/content-product.php

```
<li <?php post_class(); ?>
<?php
/**
 * woocommerce_before_shop_loop_item hook.
 *
 * @hooked woocommerce_template_loop_product_link_open - 10
 */
do_action( 'woocommerce_before_shop_loop_item' );

/**
 * woocommerce_before_shop_loop_item_title hook.
 *
 * @hooked woocommerce_show_product_loop_sale_flash - 10
 * @hooked woocommerce_template_loop_product_thumbnail - 10
 */
do_action( 'woocommerce_before_shop_loop_item_title' );

/**
 * woocommerce_shop_loop_item_title hook.
 *
 * @hooked woocommerce_template_loop_product_title - 10
 */
do_action( 'woocommerce_shop_loop_item_title' );

/**
 * woocommerce_after_shop_loop_item_title hook.
 *
 * @hooked woocommerce_template_loop_rating - 5
 * @hooked woocommerce_template_loop_price - 10
 */
do_action( 'woocommerce_after_shop_loop_item_title' );

/**
 * woocommerce_after_shop_loop_item hook.
 *
 * @hooked woocommerce_template_loop_product_link_close - 5
 * @hooked woocommerce_template_loop_add_to_cart - 10
 */
do_action( 'woocommerce_after_shop_loop_item' );
?>
</li>
```

Классы в Woocommerce

<https://docs.woocommerce.com/wc-apidocs/index.html>

The screenshot shows the WooCommerce Code Reference page. On the left is a navigation sidebar with a search bar and a list of categories: Packages, None, WooCommerce, Abstracts, Admin, API, Classes, Export, Functions, Import, ITOn, PaymentTokens, PayPal, Shortcodes, Webhooks, Widgets, WP-Background-Processing, and Classes. The 'Classes' category is expanded, showing a list of class names. The main content area is titled 'WooCommerce Code Reference' and contains a 'Packages summary' section and a 'Classes summary' table.

Classes summary	
WC_Abstract_Legacy_Order	Legacy Abstract Order
WC_Abstract_Legacy_Product	Legacy Abstract Product
WC_Abstract_Order	Abstract Order
WC_Addons_Gateway_Simplify_Commerce	Simplify Commerce Gateway for subscriptions.
WC_Admin	WC_Admin class.
WC_Admin_Addons	WC_Admin_Addons Class.
WC_Admin_API_Keys	WC_Admin_API_Keys.
WC_Admin_API_Keys_Table_List	
WC_Admin_Assets	WC_Admin_Assets Class.
WC_Admin_Attributes	WC_Admin_Attributes Class.
WC_Admin_Customize	WC_Admin_Customize Class.
WC_Admin_Dashboard	WC_Admin_Dashboard Class.
WC_Admin_Duplicate_Product	WC_Admin_Duplicate_Product Class.
WC_Admin_Exporters	WC_Admin_Exporters Class.
WC_Admin_Help	WC_Admin_Help Class.
WC_Admin_Importers	WC_Admin_Importers Class.
WC_Admin_List_Table	WC_Admin_List_Table Class.
WC_Admin_List_Table_Coupons	WC_Admin_List_Table_Coupons Class.
WC_Admin_List_Table_Orders	WC_Admin_List_Table_Orders Class.
WC_Admin_List_Table_Products	WC_Admin_List_Table_Products Class.

Класс WC_Product

WooCommerce Search Package Class Tree Deprecated Todo Hook Reference WooCommerce Docs REST API Docs

Packages

- None
- WooCommerce
- Abstracts
- Admin
- API
- Classes
- Export
- Functions
- Import
- IT0n
- PaymentTokens
- PayPal
- Shortcodes
- Webhooks
- Widgets
- WP-Background-Processing

Classes

- WC_Abstract_Legacy_Order
- WC_Abstract_Legacy_Product
- WC_Data
- WC_Deprecated_Action_Hooks
- WC_Deprecated_Filter_Hooks
- WC_Deprecated_Hooks
- WC_Integration
- WC_Log_Handler
- WC_Object_Query
- WC_Payment_Gateway
- WC_Payment_Token
- WC_Product**
- WC_REST_Controller
- WC_REST_CRUD_Controller
- WC_REST_Posts_Controller
- WC_REST_Terms_Controller

Class WC_Product

Abstract Product Class

The WooCommerce product class handles individual product data.

```
WC_Data
├── WC_Abstract_Legacy_Product
└── WC_Product
```

Direct known subclasses

WC_Product_External, WC_Product_Grouped, WC_Product_Simple, WC_Product_Variable

Indirect known subclasses

WC_Product_Variation

Package: WooCommerce/Abstracts
Category: Abstract Class
Author: WooThemes
Version: 3.0.0
Located at: abstracts/abstract-wc-product.php

Methods summary

public	__construct(Integer WC_Product object \$product = 0)	#
	Get the product if ID is passed, otherwise the product is new and empty. This class should NOT be instantiated, but the wc_get_product() function should be used. It is possible, but the wc_get_product() is preferred.	
public string	get_type()	#
	Get internal type. Should return string and <i>should be overridden</i> by child classes.	
public string	get_name(string \$context = 'view')	#
	Get product name.	
public string	get_slug(string \$context = 'view')	#
	Get product slug.	
public WC_DateTime null	get_date_created(string \$context = 'view')	#
	Get product created date.	
public WC_DateTime null	get_date_modified(string \$context = 'view')	#

```
/**
 * Stores product data.
 *
 * @var array
 */
protected $data = array(
    'name' => '',
    'slug' => '',
    'date_created' => null,
    'date_modified' => null,
    'status' => false,
    'featured' => false,
    'catalog_visibility' => 'visible',
    'description' => '',
    'short_description' => '',
    'sku' => '',
    'price' => '',
    'regular_price' => '',
    'sale_price' => '',
    'date_on_sale_from' => null,
    'date_on_sale_to' => null,
    'total_sales' => '0',
    'tax_status' => 'taxable',
    'tax_class' => '',
    'manage_stock' => false,
    'stock_quantity' => null,
    'stock_status' => 'instock',
    'backorders' => 'no',
    'sold_individually' => false,
    'weight' => '',
    'length' => '',
    'width' => '',
    'height' => '',
    'upsell_ids' => array(),
    'cross_sell_ids' => array(),
    'parent_id' => 0,
    'reviews_allowed' => true,
    'purchase_note' => '',
    'attributes' => array(),
    'default_attributes' => array(),
    'menu_order' => 0,
    'virtual' => false,
    'downloadable' => false,
    'category_ids' => array(),
    'tag_ids' => array(),
    'shipping_class_id' => 0,
    'downloads' => array(),
    'image_id' => '',
    'gallery_image_ids' => array(),
    'download_limit' => -1,
    'download_expiry' => -1,
    'rating_counts' => array(),
    'average_rating' => 0,
    'review_count' => 0,
);
```

Объект класса WC_Product и его свойства

Как пользоваться классом



```
//Получим объект класса WC_Product  
$product = wc_get_product($id);  
  
$sku = $product->get_sku();  
$new_sku = 'prefix' . $sku;  
$product->set_sku($new_sku);  
$product->save();
```


На все случаи жизни

```
WC_Data
├── WC_Abstract_Legacy_Product
│   └── WC_Product
│       ├── WC_Product_Simple
│       └── WC_Product_Variation
```

Package `WooCommerce\Classes\Products`

Classes summary

<code>WC_Comments</code>	Comments
<code>WC_Post_types</code>	WC_Post_types Class.
<code>WC_Product_External</code>	External Product Class.
<code>WC_Product_Grouped</code>	Grouped Product Class.
<code>WC_Product_Simple</code>	Simple Product Class.
<code>WC_Product_Variable</code>	Variable Product Class.

Package `WooCommerce\Classes`

Packages summary

<code>WooCommerce\Classes\Data</code>
<code>WooCommerce\Classes\Emails</code>
<code>WooCommerce\Classes\Embed</code>
<code>WooCommerce\Classes\Integrations</code>
<code>WooCommerce\Classes\Interfaces</code>
<code>WooCommerce\Classes\Log</code>
<code>WooCommerce\Classes\Payment</code>
<code>WooCommerce\Classes\Products</code>
<code>WooCommerce\Classes\Shipping</code>
<code>WooCommerce\Classes\Walkers</code>

Позаботьтесь о тех, кто пойдет за вами

Предусмотрите хуки и фильтры



Пишите код, который легко читать, использовать, расширять

