

# **Introdução a Hooks**

**Aprenda a customizar o WordPress  
com filtros e ações**

**Thiago Censi**

# Thiago Censi



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# O que são Hooks?

**Tradução:** Gancho

**Hook:** a piece of metal or other material, curved or bent back at an angle, for catching hold of or hanging things on.

**To hook:** attach or fasten with a hook or hooks.

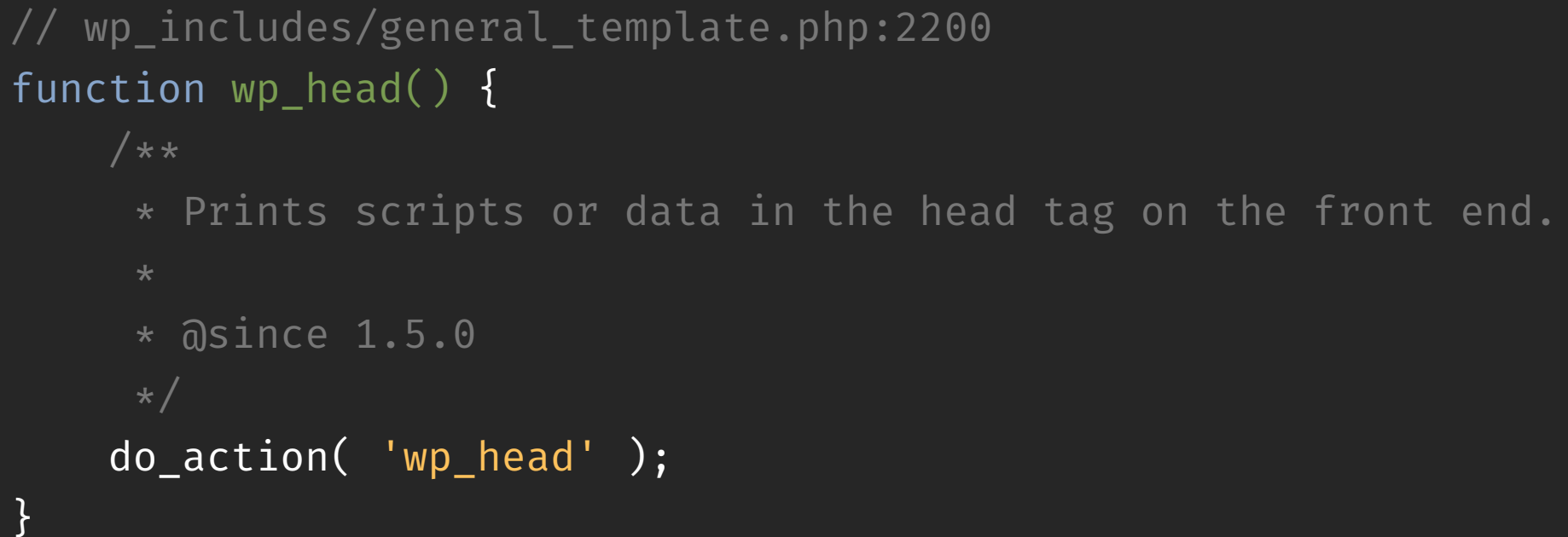
# Hooks no WordPress

Servem para pendurar, prender, anexar ações individuais para alterar ou acrescentar conteúdo ou funcionalidades ao WP

Dois tipos: **Actions** e **Filters**

**Tl;dr:**        **Actions** fazem alguma coisa. **Filters** modificam alguma coisa.

## Exemplos no core: action



```
// wp_includes/general_template.php:2200
function wp_head() {
    /**
     * Prints scripts or data in the head tag on the front end.
     *
     * @since 1.5.0
     */
    do_action( 'wp_head' );
}
```

## Exemplos no core: filter

```
// wp_includes/post_template.php:220
function the_content( $more_link_text = null, $strip_teaser =
false) {
    $content = get_the_content( $more_link_text, $strip_teaser
);
    /**
     * Filters the post content.
     * @since 0.71
     * @param string $content Content of the current post.
     */
    $content = apply_filters( 'the_content', $content );
    $content = str_replace( ']]>', ']]&gt;', $content );
    echo $content;
}
```

# Por quê!?

- Mude o comportamento do WP sem mexer em arquivos do core;
- Altere temas filho sem alterar os arquivos do tema. Ex: temas que usam frameworks;
- Altere o comportamento de plugins sem mexer em seus arquivos;
- Separe os hooks em plugins para modulação e fácil ativação/desativação;
- Mantenha WP/tema/plugins funcionando com updates;
- O jeito WordPress (the WP way)



# Adicionando hooks

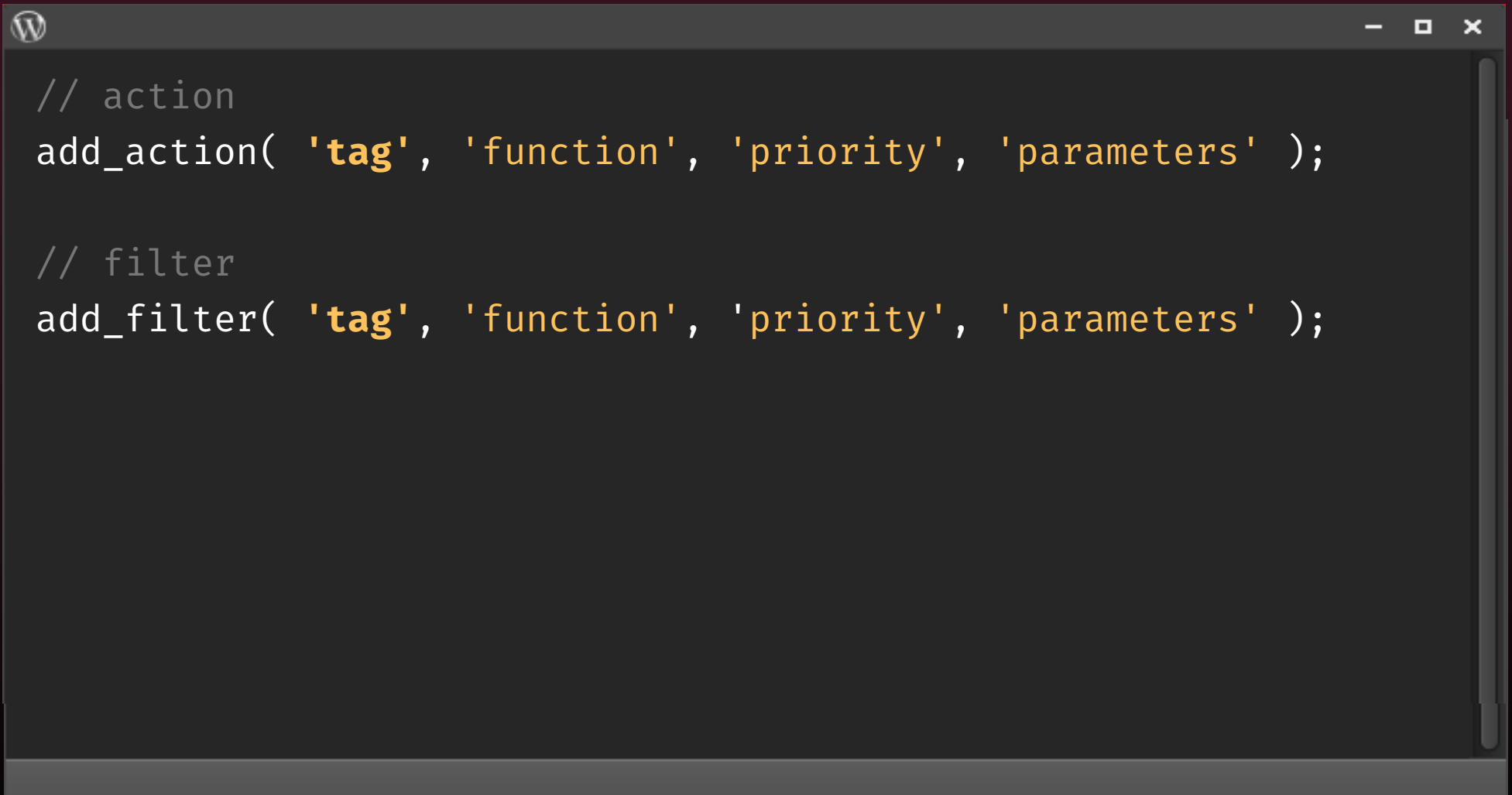


```
// action
add_action( 'tag', 'function', 'priority', 'parameters' );

// filter
add_filter( 'tag', 'function', 'priority', 'parameters' );
```

## Partes de um hooks: tag

Nome do hook, onde/quando a função de callback será chamada.

A screenshot of a code editor window with a dark theme. The window has a title bar with a WordPress logo on the left and standard window controls (minimize, maximize, close) on the right. The code is written in a light gray font on a dark background. It shows two function calls: `add_action` and `add_filter`. Both functions have four arguments: a tag in single quotes, the word 'function' in single quotes, 'priority' in single quotes, and 'parameters' in single quotes, followed by a closing parenthesis and a semicolon. The word 'tag' is highlighted in orange in both lines of code.

```
// action
add_action( 'tag', 'function', 'priority', 'parameters' );

// filter
add_filter( 'tag', 'function', 'priority', 'parameters' );
```

## Partes de um hook: tag (filter)

```
// wp_includes/post_template.php:220
function the_content( $more_link_text = null, $strip_teaser =
false) {
    $content = get_the_content( $more_link_text, $strip_teaser
);
    /**
     * Filters the post content.
     * @since 0.71
     * @param string $content Content of the current post.
     */
    $content = apply_filters( 'the_content', $content );
    $content = str_replace( ']]>', ']]&gt;', $content );
    echo $content;
}
```


## Partes de um hook: tag (filter)

```
// Não devemos nomear o lorde das trevas
add_filter( 'the_content', function( $content ) {
    return str_replace( 'Voldemort', 'Aquele-Que-Não-Deve-Ser-
Nomeado',
        $content );
}, 30 );
```

## Partes de um hook: tag (action)

```
// wp_includes/general_template.php:2200
function wp_head() {
    /**
     * Prints scripts or data in the head tag on the front end.
     *
     * @since 1.5.0
     */
    do_action( 'wp_head' );
}
```

## Partes de um hook: tag (action)

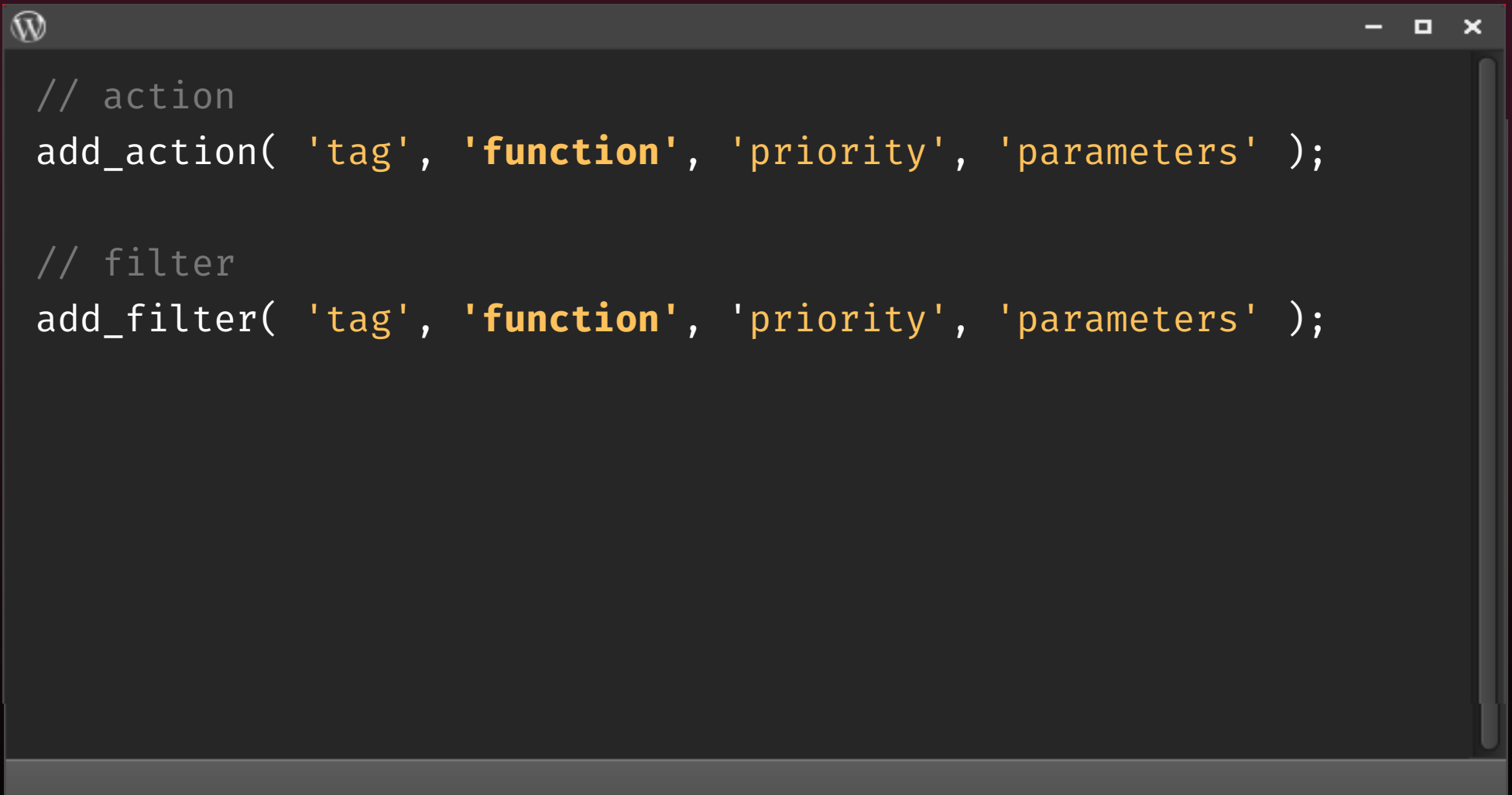


```
// wp_includes/general_template.php:2200
add_action( 'wp_head', function(){
    echo 'OpenGraph Tags...';
}, 10 );
```

The image shows a code editor window with a dark background. The title bar at the top has a WordPress logo on the left and standard window controls (minimize, maximize, close) on the right. The code is written in a light gray font. The first line is a comment indicating the source file and line number. The second line is the `add_action` function call, with `'wp_head'` in orange and `function()` in blue. The third line is an indented `echo` statement with the string `'OpenGraph Tags...'` in orange. The fourth line is the closing brace of the function, with `10` in purple. The code is enclosed in a function call with parentheses.

# Partes de um hooks: função de callback

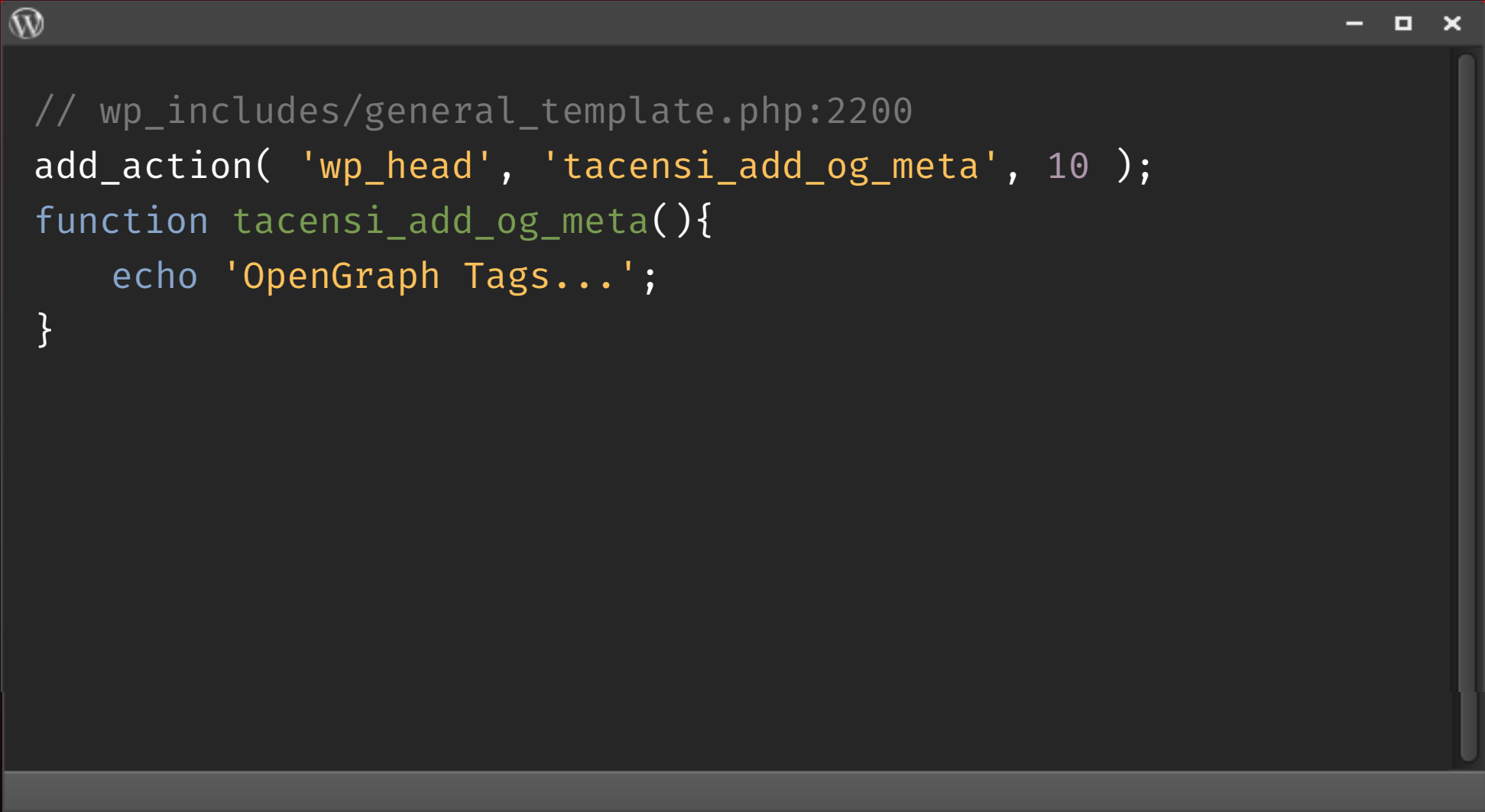
Nome da sua função

A screenshot of a code editor window with a dark theme. The window has a title bar with a WordPress logo on the left and standard window controls (minimize, maximize, close) on the right. The code is written in a light gray font on a dark background. It shows two function calls: `add_action()` and `add_filter()`. In both, the word `function` is highlighted in orange. The code is as follows:

```
// action
add_action( 'tag', 'function', 'priority', 'parameters' );

// filter
add_filter( 'tag', 'function', 'priority', 'parameters' );
```

## Partes de um hook: function (action)



```
// wp_includes/general_template.php:2200
add_action( 'wp_head', 'tacensi_add_og_meta', 10 );
function tacensi_add_og_meta(){
    echo 'OpenGraph Tags...';
}
```

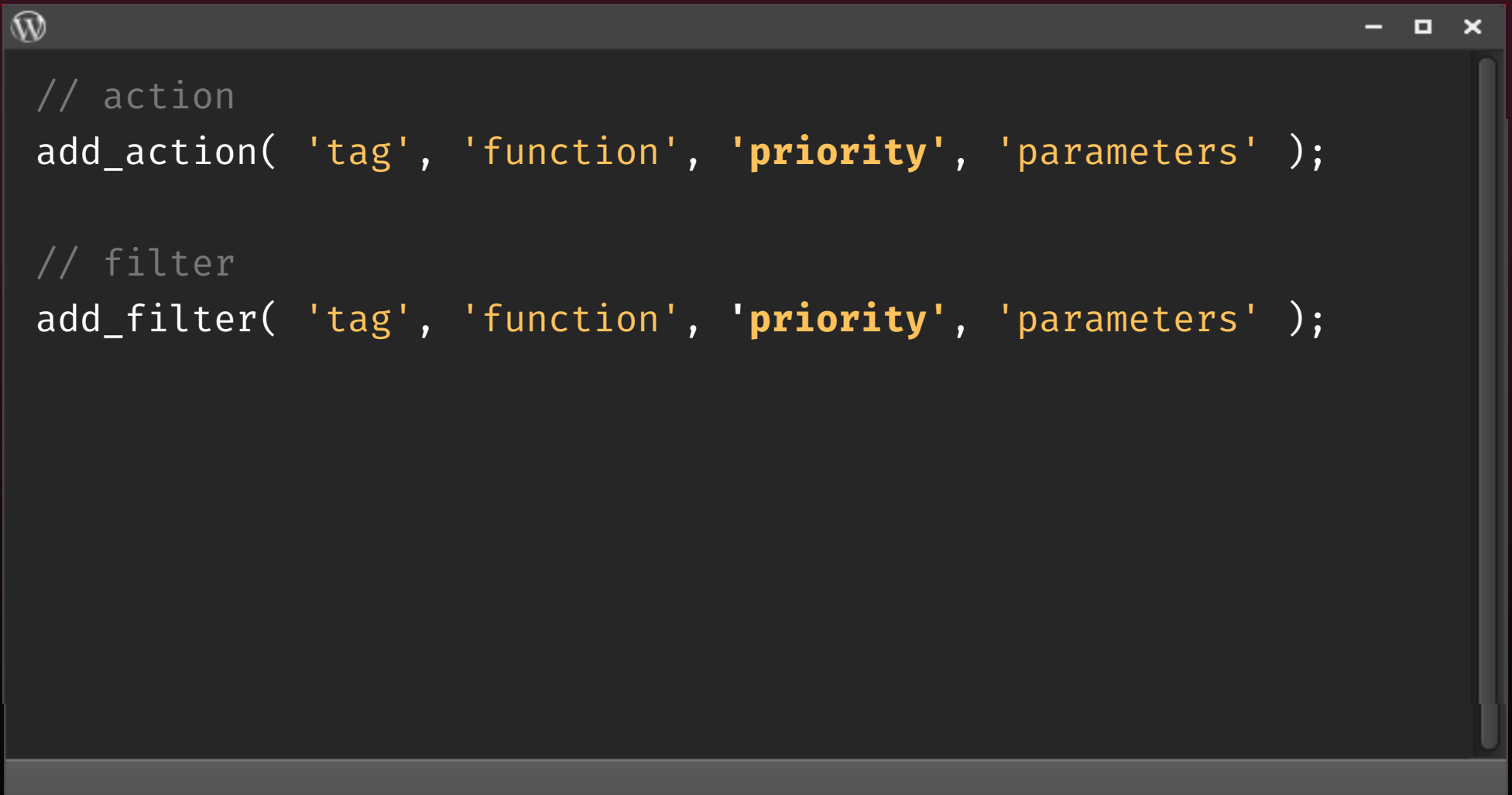


## Partes de um hook: function (filter)

```
// Não devemos nomear o lorde das trevas
add_filter( 'the_content', 'tacensi_never_say_his_name', 30 );
function tacensi_never_say_his_name( $content ) {
    return str_replace(
        'Voldemort',
        'Aquele-Que-Não-Deve-Ser-Nomeado',
        $content
    );
}
```

# Partes de um hooks: prioridade de execução

Ordem de execução de todas as funções penduradas naquele hook. São executadas em ordem crescente (10, 20, 30, etc...).

A screenshot of a code editor window with a dark theme. The window has a title bar with a WordPress logo on the left and standard window controls (minimize, maximize, close) on the right. The code is written in a light gray font on a dark background. It shows two function calls: `add_action` and `add_filter`. Both functions have four arguments: a string for 'tag', a string for 'function', a string for 'priority' (highlighted in orange), and a string for 'parameters'.

```
// action
add_action( 'tag', 'function', 'priority', 'parameters' );

// filter
add_filter( 'tag', 'function', 'priority', 'parameters' );
```

## Partes de um hook: priority (action)

```
// wp_includes/default_filters.php:205
add_action( 'wp_head', '_wp_render_title_tag', 1 );
add_action( 'wp_head', 'wp_enqueue_scripts', 1 );
add_action( 'wp_head', 'feed_links', 2 );
add_action( 'wp_head', 'feed_links_extra', 3 );
add_action( 'wp_head', 'rsd_link' );
add_action( 'wp_head', 'wlwmanifest_link' );
```

## Partes de um hook: priority (filter)

```
// wp_includes/default_filters.php:145
```

```
add_filter( 'comment_text', 'wptexturize' );  
add_filter( 'comment_text', 'convert_chars' );  
add_filter( 'comment_text', 'make_clickable', 9 );  
add_filter( 'comment_text', 'force_balance_tags', 25 );  
add_filter( 'comment_text', 'convert_smilies', 20 );  
add_filter( 'comment_text', 'wpautop', 30 );
```

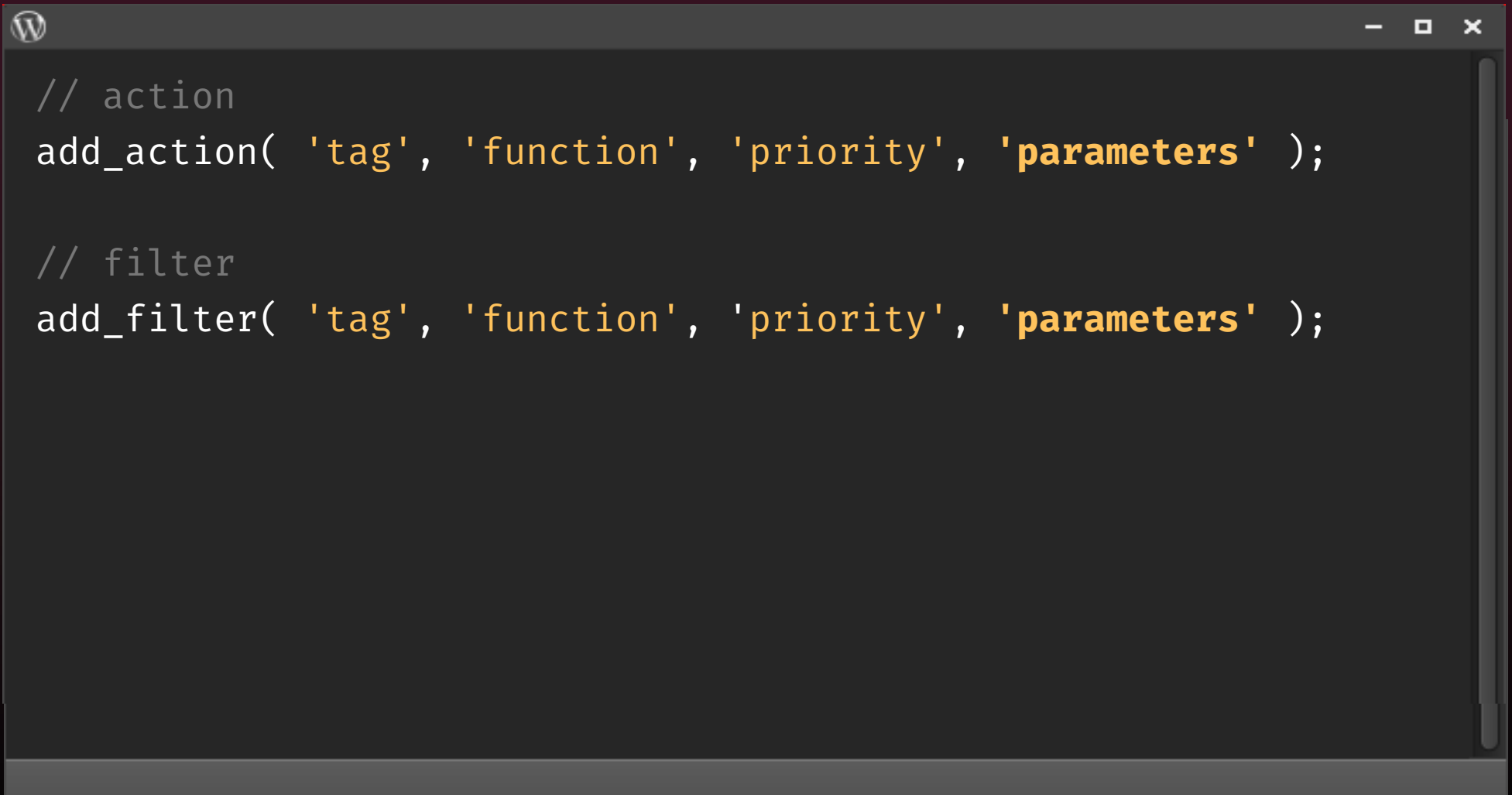
```
/**
```

Deve-se tomar mais cuidado com a prioridade nos filtros, já que uma alteração pode interferir em outra.

```
**/
```

# Partes de um hooks: Número de parâmetros

Quantos parâmetros a função aceita. Se não há uma documentação devemos cavar no fonte.

A screenshot of a code editor window with a dark theme. The window has a title bar with a WordPress logo on the left and standard window controls (minimize, maximize, close) on the right. The code is written in a light gray font on a dark background. It shows two function calls: `add_action` and `add_filter`. Both functions take four arguments: `'tag'`, `'function'`, `'priority'`, and `'parameters'`. The word `parameters` is highlighted in a bold, orange font in both calls. The code is as follows:

```
// action
add_action( 'tag', 'function', 'priority', 'parameters' );

// filter
add_filter( 'tag', 'function', 'priority', 'parameters' );
```

## Partes de um hook: parameters (action)

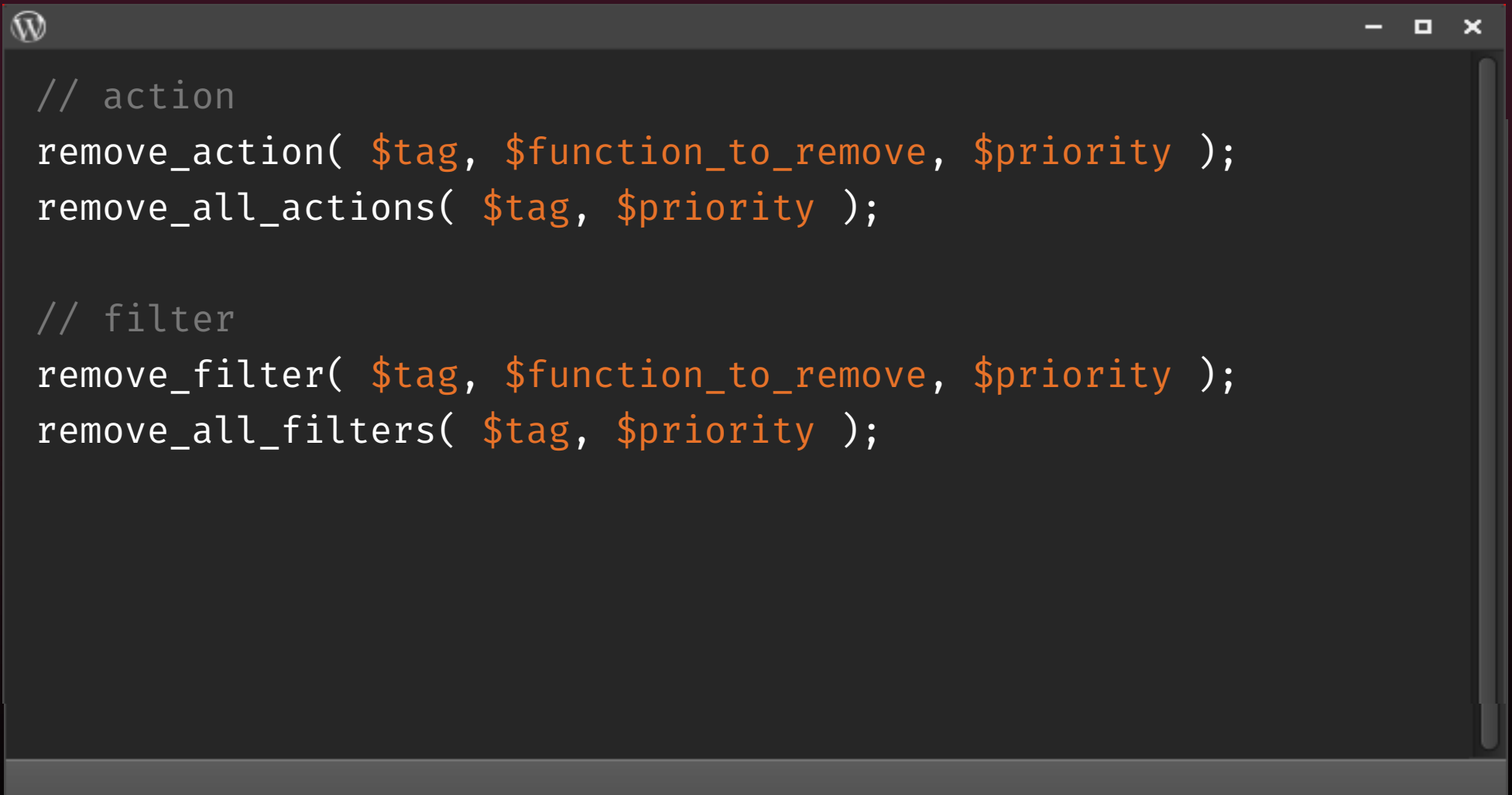
```
// wp_includes/default_filters.php:288
add_action( 'post_updated',
            'wp_check_for_changed_slugs', 12, 3 );
// wp-includes/post.php:5286
/**
 * @param int      $post_id      Post ID.
 * @param WP_Post  $post          The Post Object
 * @param WP_Post  $post_before  The Previous Post Object
 * @return int      Same as $post_id
 */
function wp_check_for_changed_slugs(
    $post_id, $post, $post_before ) {
    // (...)
}
```

## Partes de um hook: parameters (filter)

```
// wp_includes/formatting.php:1311
add_action( 'sanitize_title',
            'sanitize_title_with_dashes', 10, 3 );
// wp-includes/post.php:5286
/**
 * @param string $title The title to be sanitized.
 * @param string $raw_title Optional. Not used.
 * @param string $context Optional. The operation for which the
string is sanitized.
 * @return string The sanitized title.
 */
function sanitize_title_with_dashes(
    $title, $raw_title = '', $post_before ) {
    // (...)
}
```

# Removendo actions ou filters

Podemos remover um ou todos os hooks de determinado filtro ou ação

A screenshot of a code editor window with a dark theme. The window has a title bar with a WordPress logo icon on the left and standard window controls (minimize, maximize, close) on the right. The code is written in a monospaced font with syntax highlighting: comments are in light gray, function names are in white, and variables are in orange. The code is organized into two sections, one for actions and one for filters.

```
// action
remove_action( $tag, $function_to_remove, $priority );
remove_all_actions( $tag, $priority );

// filter
remove_filter( $tag, $function_to_remove, $priority );
remove_all_filters( $tag, $priority );
```



# Removendo actions

```
// remove update warning
function tacensi_remove_update_warning() {
    if ( ! current_user_can( 'activate_plugins' ) )
        remove_action( 'admin_notices', 'update_nag', 3 );
}
add_action(
    'admin_notices',
    'tacensi_remove_update_warning',
    1
);
```

## Exemplos: remove\_action

```
// remove header info
function tacensi_remove_header_info() {
    remove_action( 'wp_head', 'rsd_link' );
    remove_action( 'wp_head', 'wlwmanifest_link' );
    remove_action( 'wp_head', 'wp_generator' );
    remove_action( 'wp_head', 'start_post_rel_link' );
    remove_action( 'wp_head', 'index_rel_link' );
    remove_action( 'wp_head', 'adjacent_posts_rel_link' );
}
add_action( 'init', 'tacensi_remove_header_info' );
```

## Exemplos: add\_action

```
// add promo banner
add_action(
    'woocommerce_before_shop_loop',
    'tacensi_add_promo'
);
function tacensi_add_promo() {
    ?>
    <div class="banner-promo">
        <h2>O patrão está maluco!</h2>
        <p>Somente hoje, tudo pela metade do dobro!</p>
    </div>
    <?php
}
```

# Exemplos: add\_action

## Singles

**O patrão está maluco!**

Somente hoje, tudo pela metade do dobro!

Default sorting



Showing all 2 results



Woo Single #1

R\$3,00



Woo Single #2



## Exemplos: add\_filter

```
// change 0800 text
add_filter(
    'woocommerce_free_price_html',
    'tacensi_free_price'
);
function tacensi_free_price( $price ) {
    $price = '<span class="amount">' .
        __( 'Totalmente de GRÁTIS!', 'tacensi' ) .
        '</span>';
    return $price;
}
```

## Exemplos: add\_filter

### Woo Single #2

★★★★★ [\(2 avaliações de clientes\)](#)

Totalmente de GRÁTIS!

Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Vestibulum tortor quam, feugiat vitae, ultricies eget, tempor sit amet, ante. Donec eu libero sit amet quam egestas semper. Aenean ultricies mi vitae est. Mauris placerat eleifend leo.

1

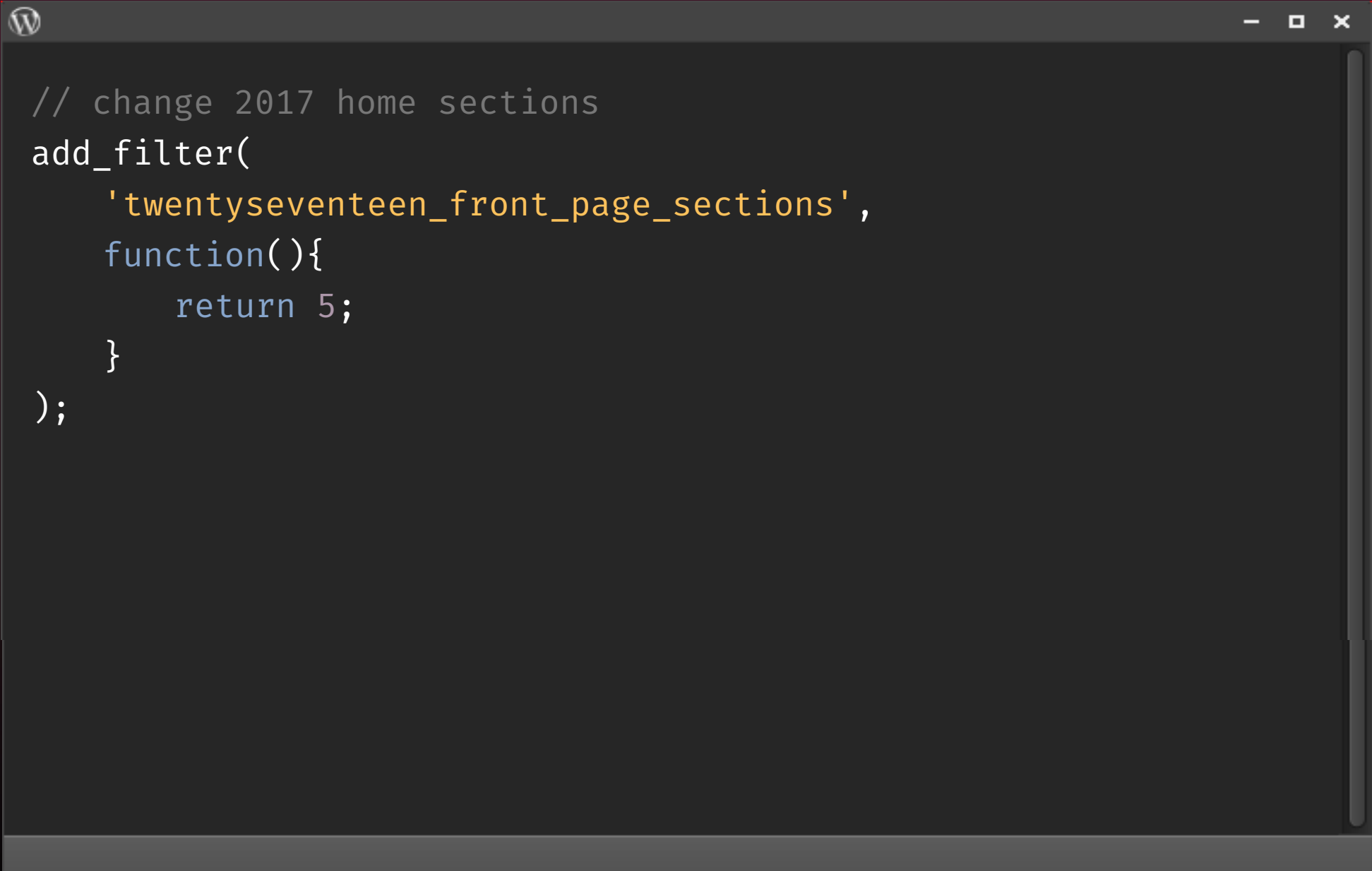
▲

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Comprar

Categorias [Music](#), [Singles](#)

## Exemplos: add\_filter

A screenshot of a code editor window with a dark theme. The window has a title bar with a 'W' icon and standard window controls (minimize, maximize, close). The code is written in PHP and uses syntax highlighting: comments are grey, function names are white, strings are orange, and keywords like 'function' and 'return' are blue. The code is as follows:

```
// change 2017 home sections
add_filter(
    'twentyseventeen_front_page_sections',
    function(){
        return 5;
    }
);
```

# Exemplos: add\_filter

**Front Page Section 1 Content**

*Select pages to feature in each area from the dropdowns. Add an image to a section by setting a featured image in the page editor. Empty sections will not be displayed.*

A homepage section ▾

Add New Page

**Front Page Section 2 Content**

About Us ▾

Add New Page

**Front Page Section 3 Content**

Blog ▾

Add New Page

**Front Page Section 4 Content**

Contact Us ▾

Add New Page

**Front Page Section 1 Content**

*Select pages to feature in each area from the dropdowns. Add an image to a section by setting a featured image in the page editor. Empty sections will not be displayed.*

A homepage section ▾

Add New Page

**Front Page Section 2 Content**

About Us ▾

Add New Page

**Front Page Section 3 Content**

Blog ▾

Add New Page

**Front Page Section 4 Content**

Contact Us ▾

Add New Page

**Front Page Section 5 Content**

▾

Add New Page



## Exemplos: add\_action

```
// 2016 credits
add_action( 'twentysixteen_credits', 'tacensi_copyright' );
function tacensi_copyright() {
    echo '<p>&copy; Copyright ' . date( 'Y' ) . ' Acme Inc.</p>';
}
```

## Exemplos: add\_action

© Copyright 2016 Acme Inc.

Woo Teste / Orgulhosamente desenvolvido com WordPress

# Mais informações

**Codex:** [https://codex.wordpress.org/Plugin\\_API](https://codex.wordpress.org/Plugin_API)

**Hook data:** [http://adambrown.info/p/wp\\_hooks](http://adambrown.info/p/wp_hooks)

**Woo:** <https://docs.woocommerce.com/document/introduction-to-hooks-actions-and-filters/>

**Mais:** Leitura e análise do core ;-)

**Obrigado.**