

Introdução a Hooks

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



Thiago Censi

Thiago Censi



- facebook.com/tacensi
- github.com/tacensi
- br.wordpress.org/support/users/frq/
- tacensi@gmail.com



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.

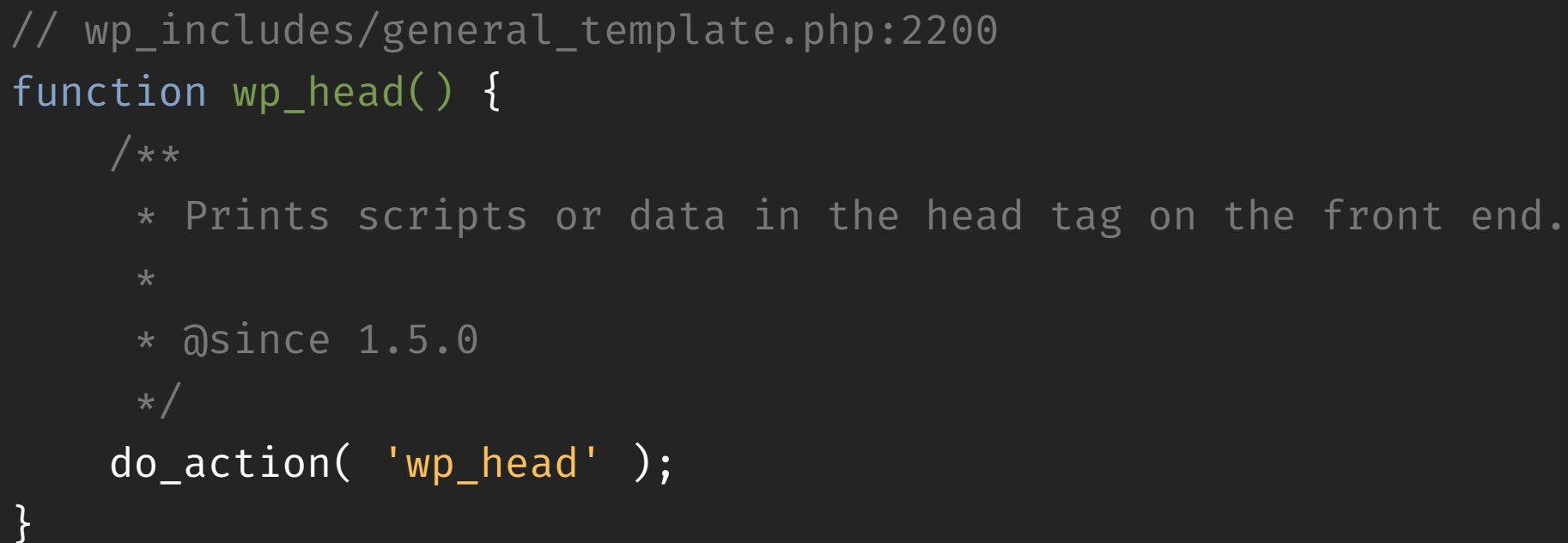
Hooks no WordPress

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' );
}
```

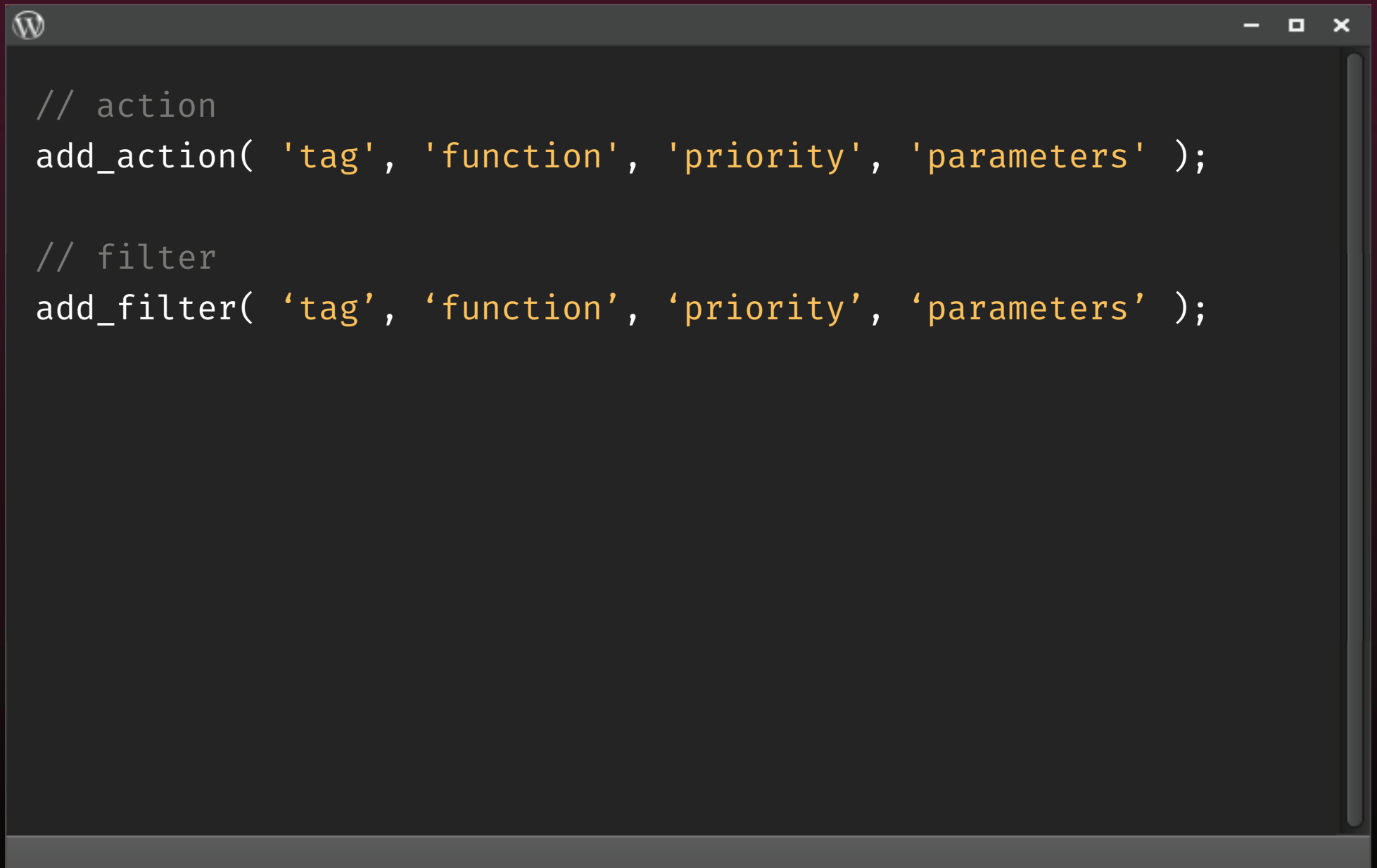
Exemplos no core: filter

```
// 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!?

- API usada por plugins e temas para interação com WP (plugin API);
- 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

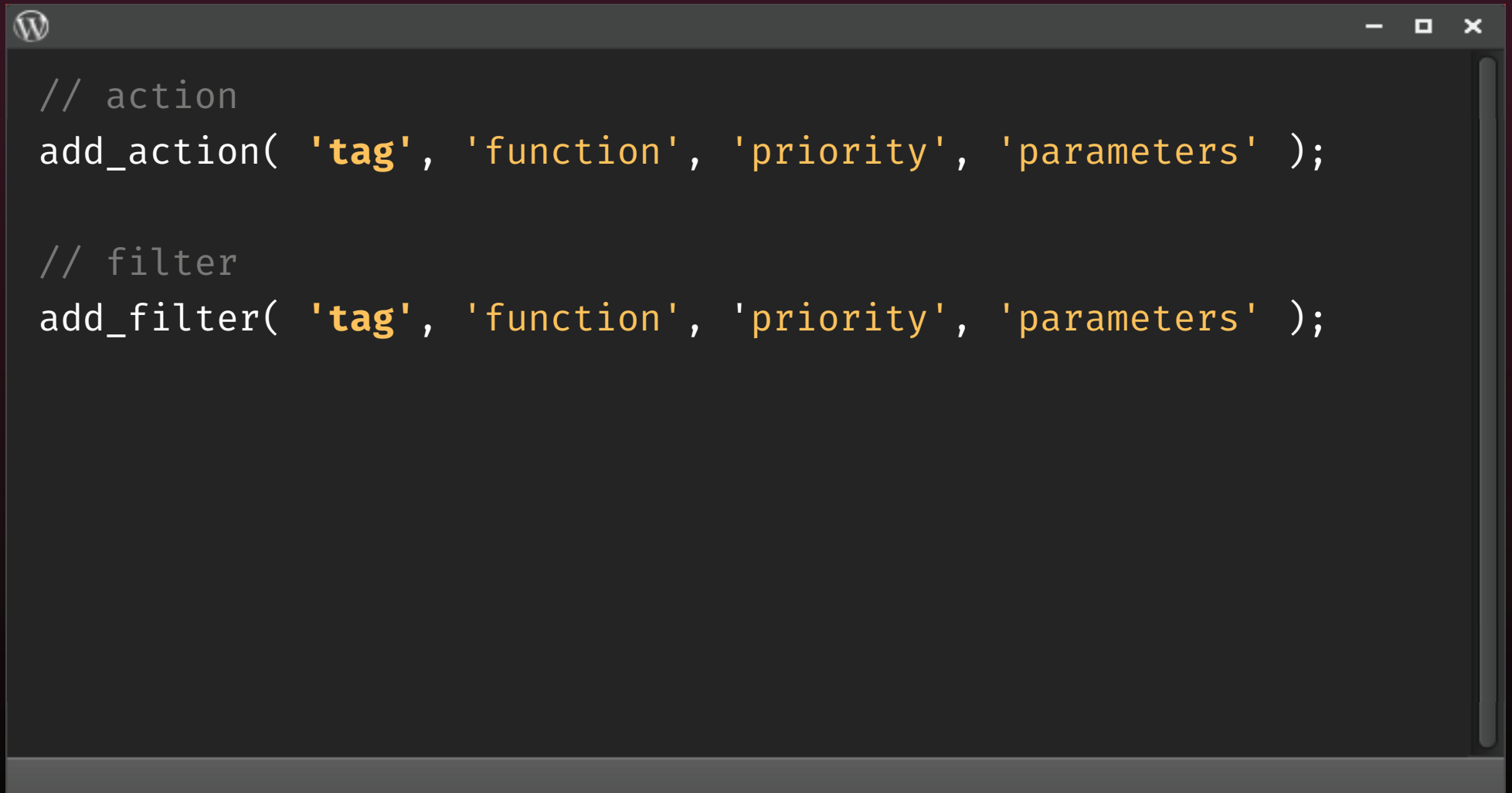
A screenshot of a code editor window with a dark background. The window has a title bar with a 'W' icon and standard window controls (minimize, maximize, close). The code is written in a light gray font, with string literals in orange. It shows two examples of WordPress hooks: an action and a filter. The first example is an action hook, and the second is a filter hook. Both use the same parameter structure: 'tag', 'function', 'priority', and 'parameters'.

```
// 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 icon 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** (highlighted in orange), a `function` (highlighted in orange), a `priority` (highlighted in orange), and `parameters` (highlighted in orange). The `add_action` line is preceded by a comment `// action`, and the `add_filter` line is preceded by a comment `// filter`.

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

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

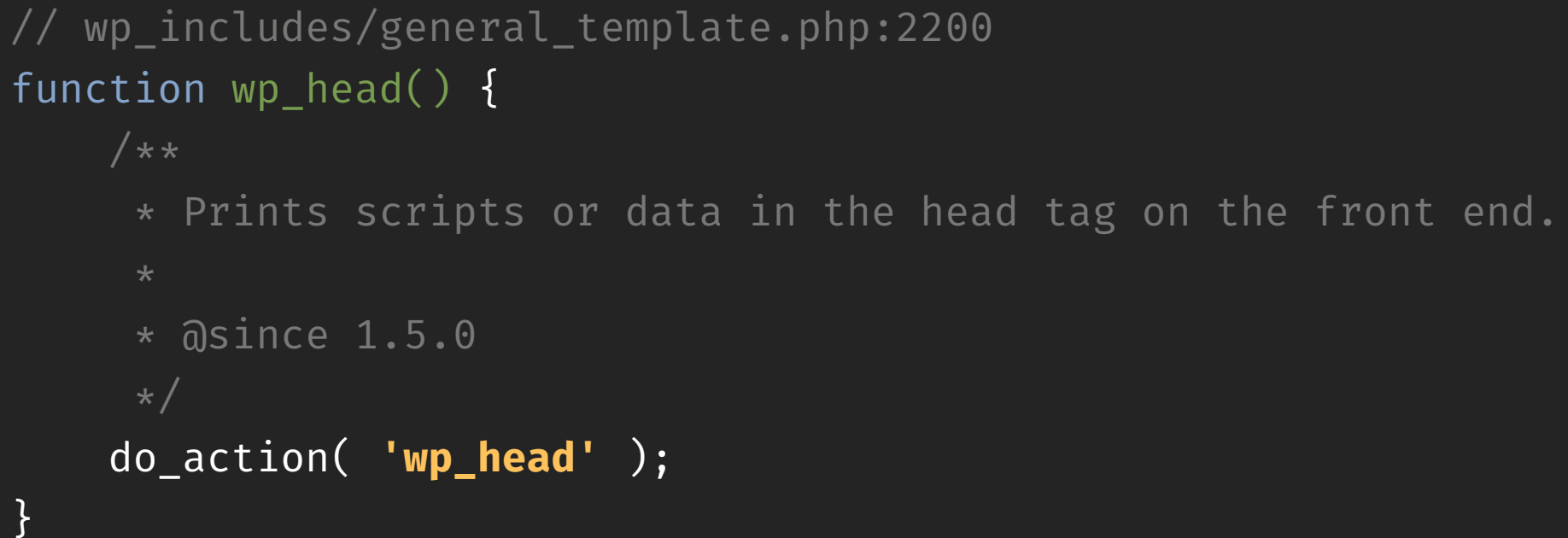
Partes de um hook: tag (filter)

```
// 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' );
}
```

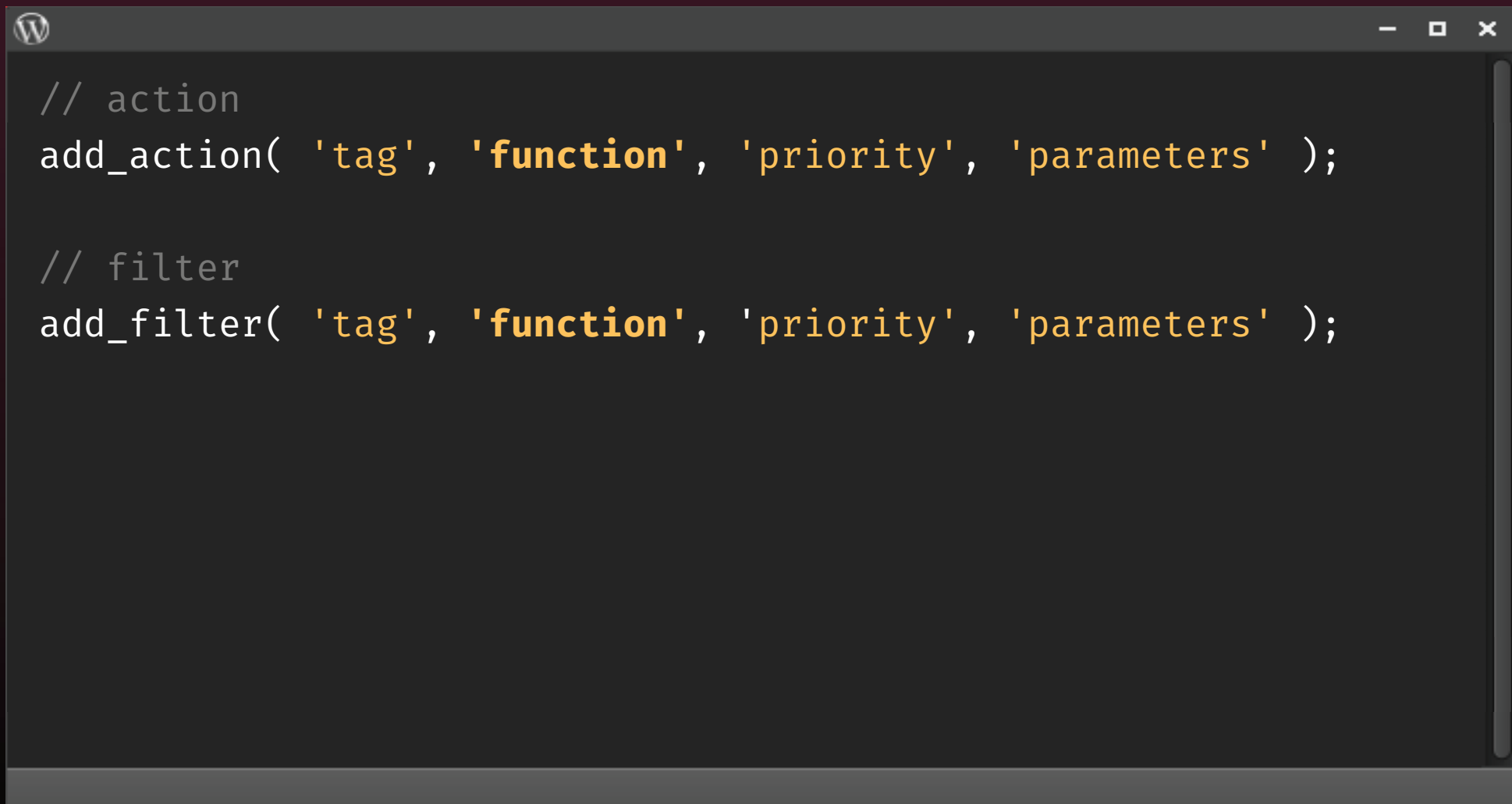
Partes de um hook: tag (action)

A screenshot of a code editor window with a dark background. 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 PHP and is a WordPress hook. The code is as follows:

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

Partes de um hooks: função de callback

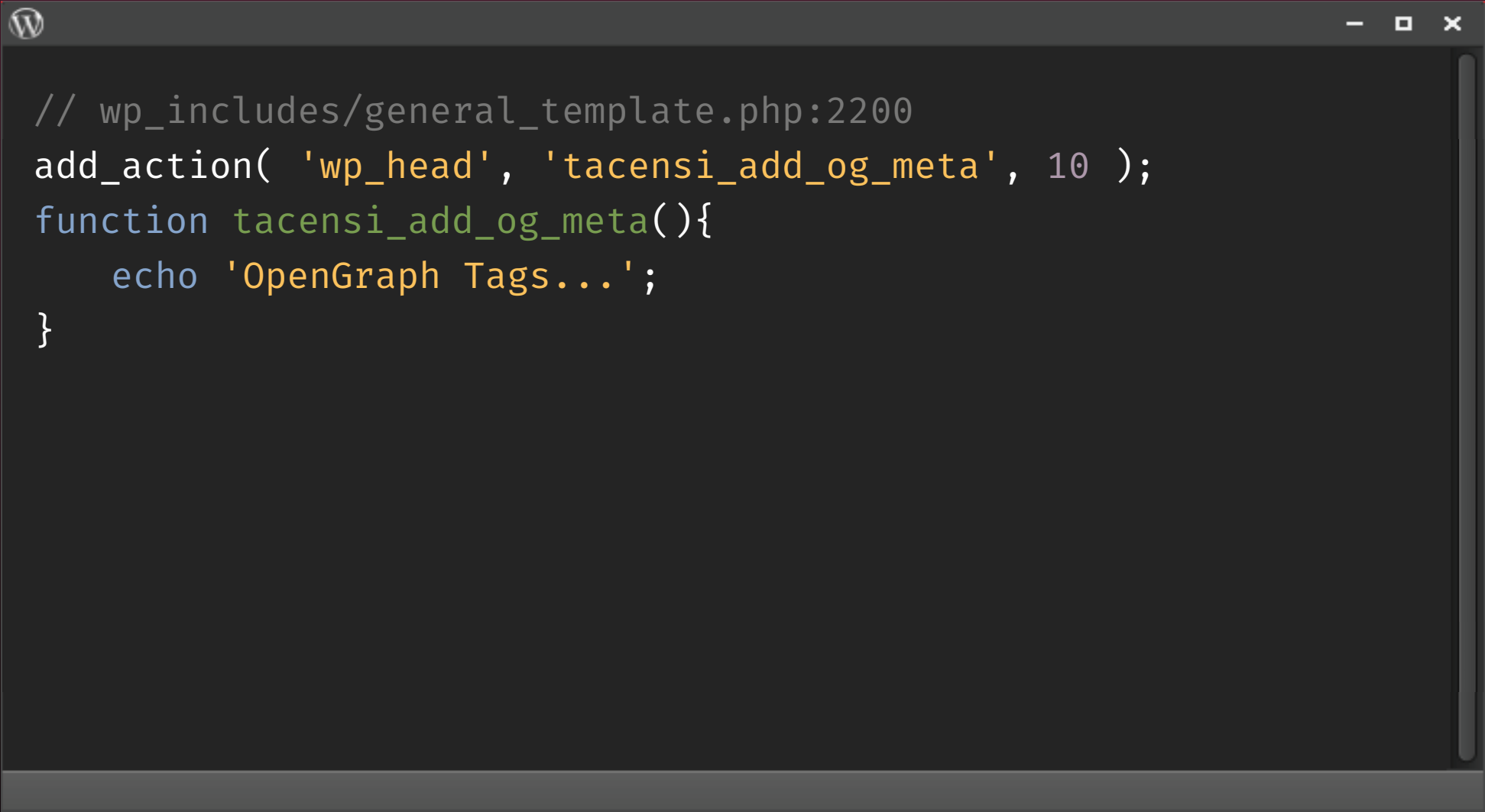
Nome da sua função

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 examples of WordPress hooks: an action hook and a filter hook. 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)

A screenshot of a code editor window with a dark background. 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 PHP and is color-coded: comments are in light gray, function names in blue, strings in orange, and the function body in green. The code defines a function named 'tacensi_add_og_meta' and registers it as an action for the 'wp_head' hook.

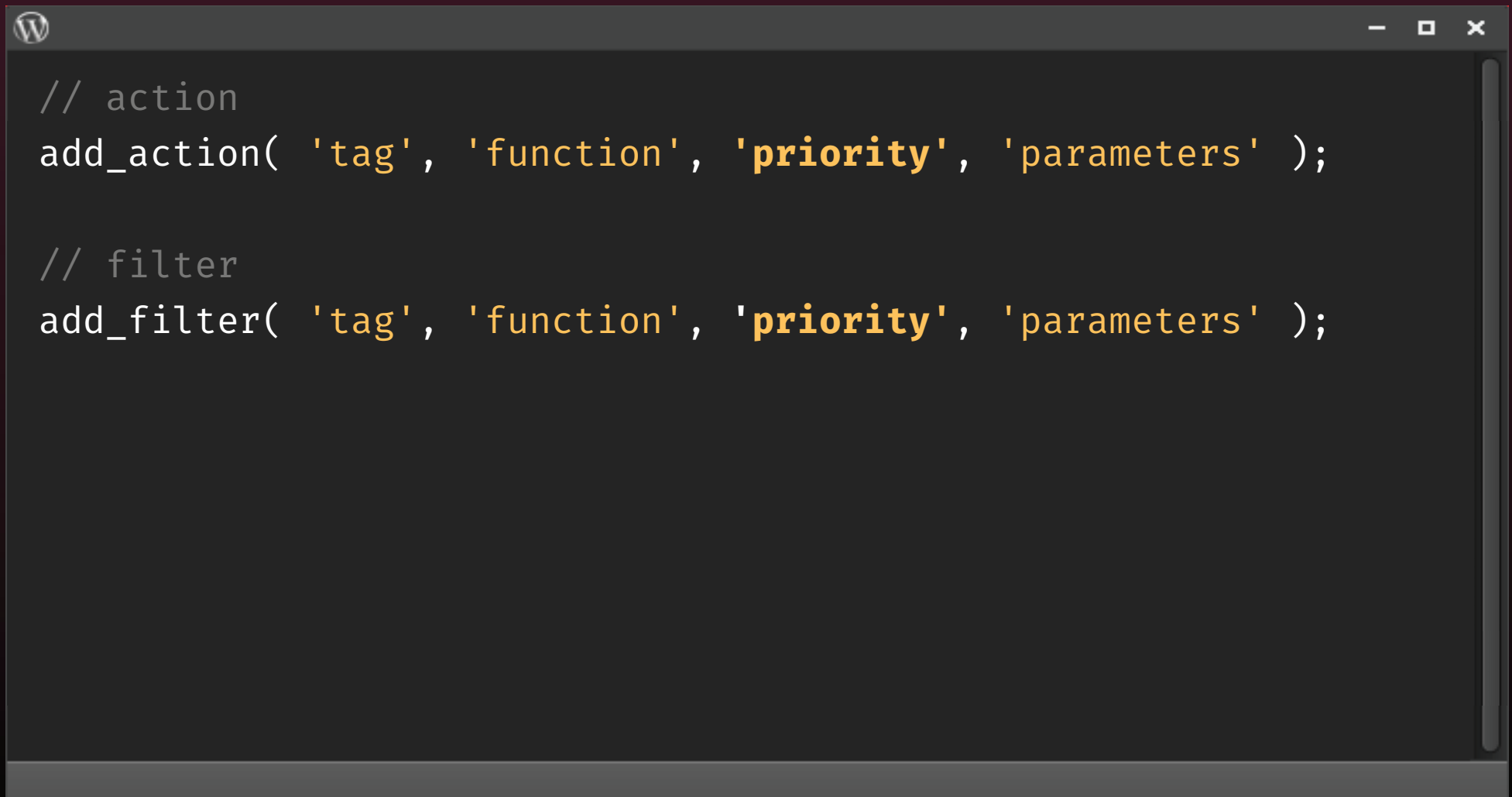
```
// wp_includes/general_template.php:2200
add_action( 'wp_head', 'tacensi_add_og_meta', 10 );
function tacensi_add_og_meta(){
    echo 'OpenGraph Tags...';
}
```


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...).



```
// 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 );
```

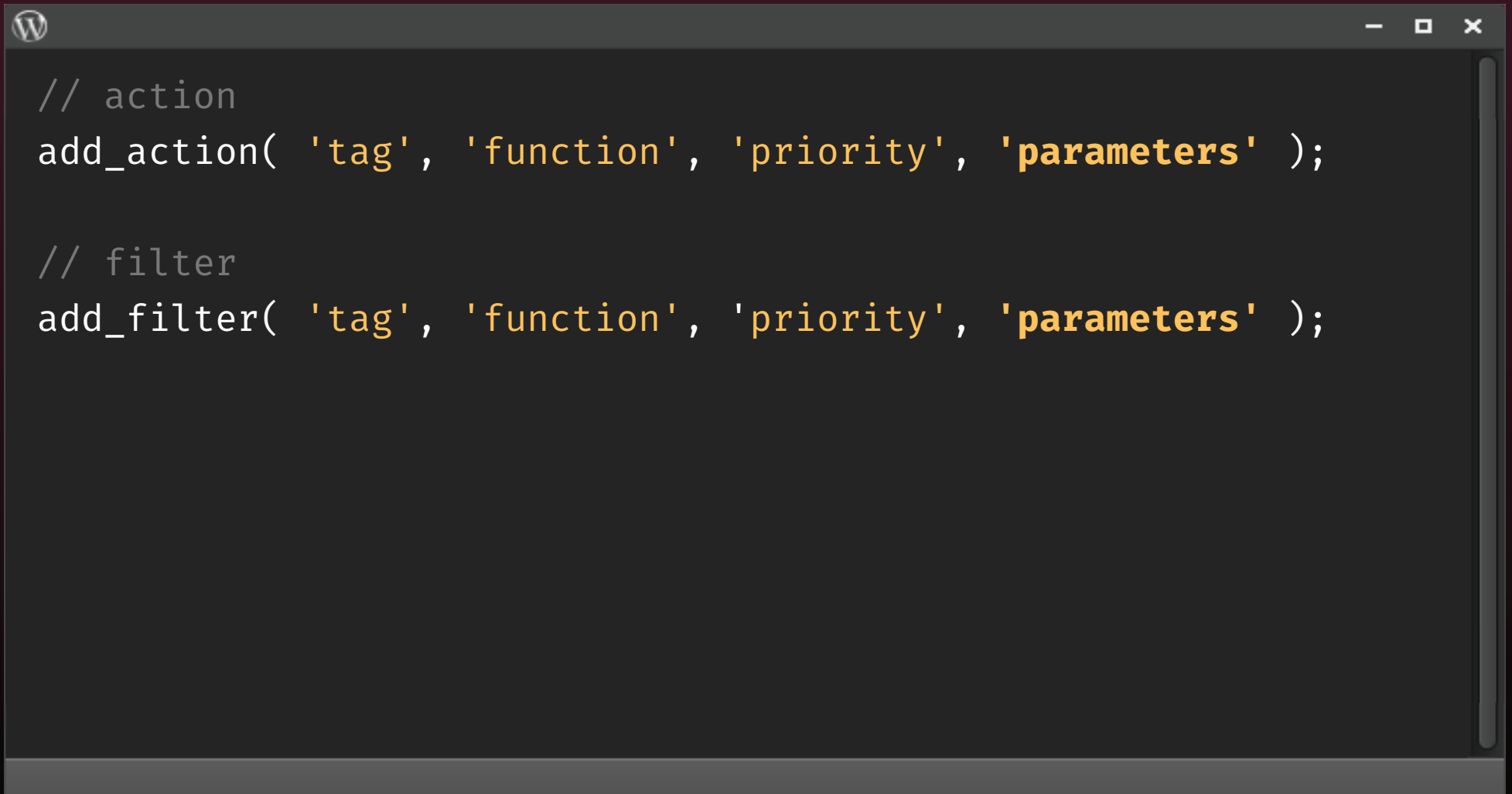
```
/**
```

```
Deve-se tomar mais cuidado com a prioridade nos filtros, já que  
um 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.

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

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

Partes de um hook: parameters (action)

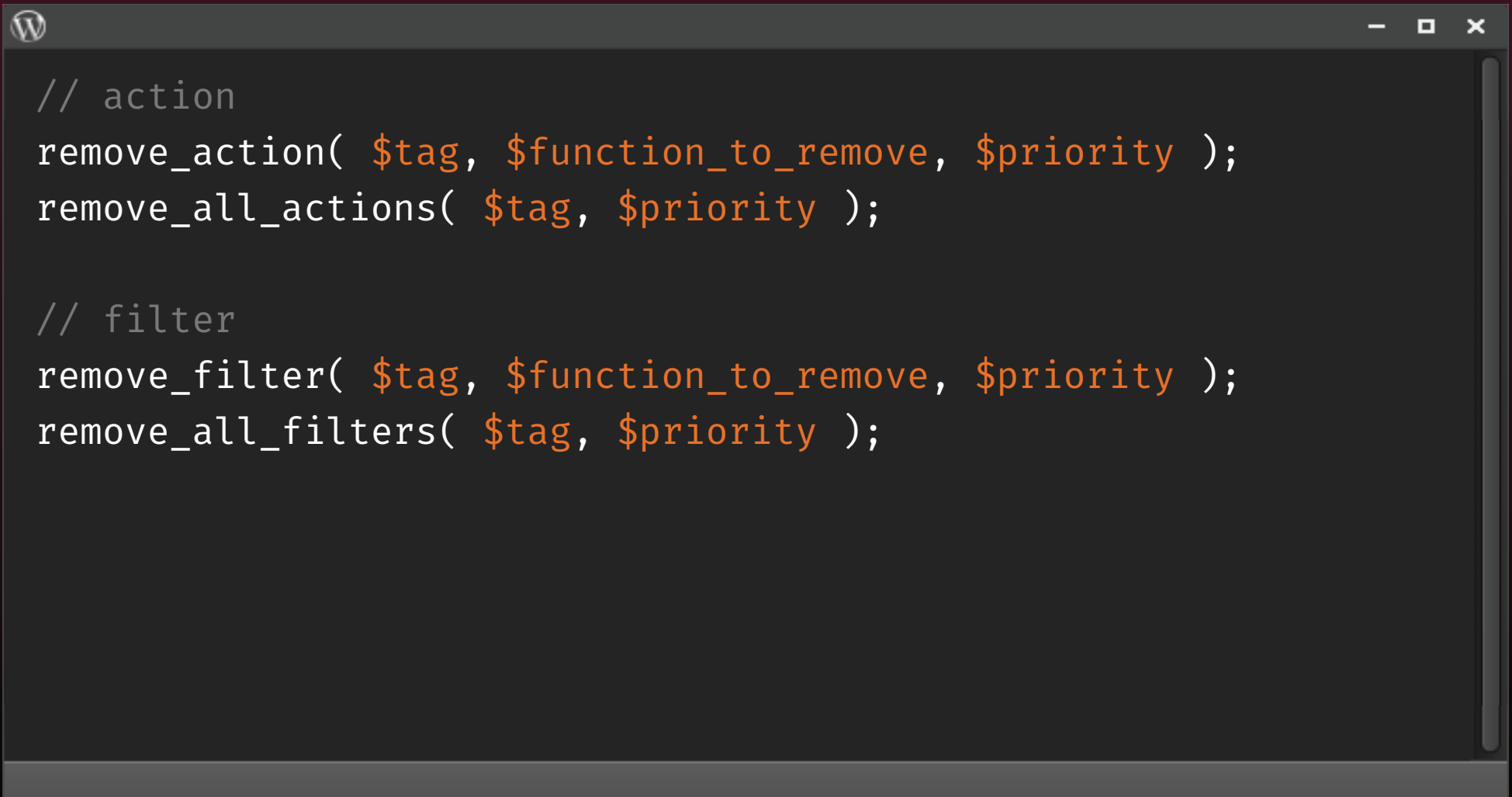
```
// wp_includes/default_filters.php:288
add_action( 'post_updated',
            'wp_check_for_changed_slugs', 12, 3 );
// wp-includes/post.php:5286
/**
 * @param int      $post_id      Post ID.
 * @param WP_Post  $post          The Post Object
 * @param WP_Post  $post_before  The Previous Post Object
 * @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 light gray font on a dark background. It shows two sections: one for actions and one for filters. Each section contains two functions: one to remove a specific hook and another to remove all hooks of a certain priority.

```
// 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

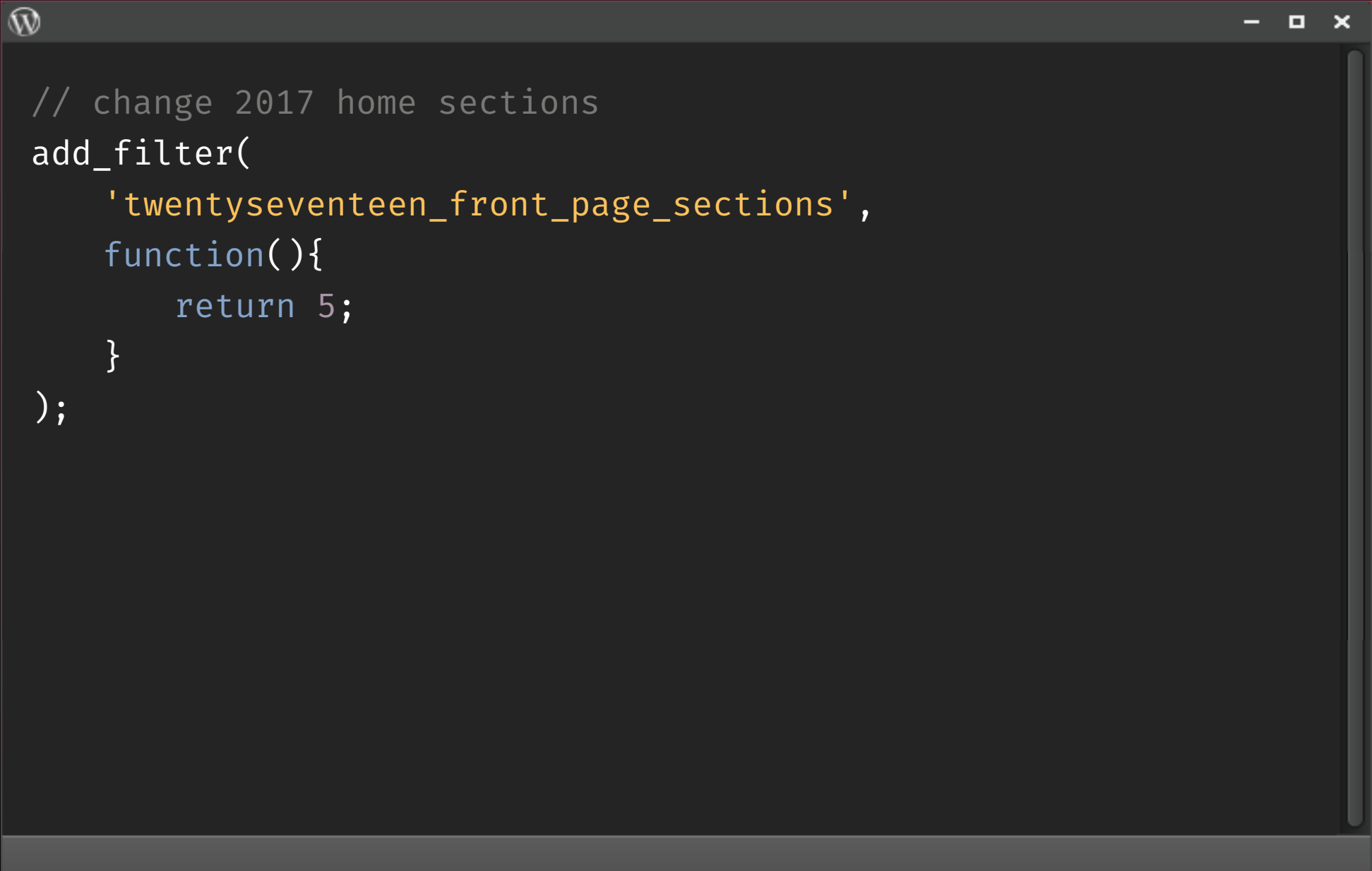
▲

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Comprar

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

Exemplos: add_filter

A screenshot of a code editor window with a dark background. 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 in light gray, strings are in orange, and keywords like 'function' and 'return' are in light blue. The code defines a filter for the 'twentyseventeen_front_page_sections' hook, returning the value 5.

```
// 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: codex.wordpress.org/Plugin_API

Hook data: adambrown.info/p/wp_hooks

Woo: [docs.woocommerce.com/document/
introduction-to-hooks-actions-and-filters/](https://docs.woocommerce.com/document/introduction-to-hooks-actions-and-filters/)

Mais: Leitura e análise do core ;-)

Obrigado.