

# JavaScript Ajax

## jQuery

- JavaScript
- jQuery
- AJAX
- PHP
- API
-



# jQuery

## jQuery

WordPress jQuery jQuery HTML

```
jQuery(selector).event(function);
```

HTML

myplugin\_settings.php

```
<form id="radioform">
<table>
<tbody>
<tr>
<td><input class="pref" checked="checked" name="book" type="radio" value="Sycamore Row" />Sycamore
Row</td>
<td>John Grisham</td>
</tr>
<tr>
<td><input class="pref" name="book" type="radio" value="Dark Witch" />Dark Witch</td>
<td>Nora Roberts</td>
</tr>
</tbody>
</table>
</form>
```

File not found or type unknown

AJAX AJAX jQuery usermeta: <script> PHP

CSS class="id" jQuery JavaScript



```
$(".pref").change(function(){  
  /*do stuff*/  
});
```

“pref” “ ”

AJAX

# AJAX

## AJAX

AJAX JavaScript XMLHttpRequest UX Ajax Internet

XMLHttpRequest

AJAX WordPress “”

AJAX Google AJAX

## AJAX

AJAX

AJAX

WordPress AJAX WordPress wp-load.php PHP WordPress /wp-content/ wp-load.php

AJAX JavaScript PHP AJAX PHP WordPress

## AJAX

WordPress AJAX WordPress AJAX

WordPress AJAX JavaScript jQuery PHP AJAX

- JavaScript jQuery HTTP JavaScript HTTP jQuery
- HTTP
- AJAX jQuery

## AJAX jQuery

jQuery.ajax({url: 'POST', type: 'POST'})

```
var this2 = this;
```



WordPress AJAX wp-admin/admin-ajax.php . URL PHP jQuery jQuery URI  
ajaxurl URL wp\_localize\_script(URI PHP jQuery URL PHP [

```
my_ajax_obj.ajax_url
```

```
{}
```

```
.post(URI)
```

```
{
  _ajax_nonce: my_ajax_obj.nonce, // nonce
  action: "my_tag_count", // action
  title: this.value // data
}
```

```
{}
```

```
{}
```

Nonce "Number used ONCE" my\_ajax\_obj.nonce PHP URL jQuery

```
{}
```

```
{} AJAX WordPress 24
```

```
{} Ajax
```

```
{} ajax_nonce PHP
```

```
_ajax_nonce: my_ajax_obj.nonce
```

```
{}
```

```
{} WordPress AJAX action="my_tag_count" AJAX
```

```
action: "my_tag_count"
```

XML JSON

jQuery this.value

title: this.value

XML JSON

```
function( data ) {
  this2.nextSibling.remove();
  $( this2 ).after( data );
}
```

jQuery this2 this; this2 ? this2 ? /\* do stuff \*/ this2

XML JSON

# XML

XML AJAX "X" PHP JSON

5.8 WordPress Internet Explorer

# JSON

JSON PHP

PHP

jQuery Ajax

```
jQuery(document).ready(function($) { //wrapper
  $(".pref").change(function() { //event
```



# PHP

AJAX PHP jQuery jQuery PHP AJAX

WordPress AJAX wp-admin/admin-ajax.php

[wp\\_enqueue\\_script\(\)](#) WordPress

enqueue

- **\$handle**
- **\$src** `plugins_url()` URL -
- **\$deps** 'jquery' jQuery AJAX
- **\$ver**
- **\$args** `in_footer` `strategy` `defer` `async` `$in_footer` WordPress 6.3

```
wp_enqueue_script(
    'ajax-script',
    plugins_url( 'js/myjquery.js', __FILE__ ),
    array( 'jquery' ),
    '1.0.0',
    array(
        'in_footer' => true,
    )
);
```

`admin_enqueue_scripts` `wp_enqueue_scripts` `login_enqueue_scripts`

`admin_enqueue_scripts` `is_home()` `is_single()`

```
add_action( 'admin_enqueue_scripts', 'my_enqueue' );
function my_enqueue( $hook ) {
    if ( 'myplugin_settings.php' !== $hook ) {
        return;
    }
}
```

```

    }
    wp_enqueue_script(
        'ajax-script',
        plugins_url( '/js/myjquery.js', __FILE__ ),
        array( 'jquery' ),
        '1.0.0',
        array(
            'in_footer' => true,
        )
    );
}

```

jQuery PHP jQuery PHP

wp\_register\_script()

wp\_enqueue\_script()

WordPress

WordPress wp\_enqueue\_script() strategy \$args

WordPress

- 'strategy' => 'defer' \$args
  - defer script DOMContentLoaded window load DOM
- 'strategy' => 'async' \$args
  - script async DOMContentLoaded B A DOM

WordPress

```

wp_register_script(
    'ajax-script-two',
    plugins_url( '/js/myscript.js', __FILE__ ),
    array( 'ajax-script' ),
    '1.0.0',
    array(
        'strategy' => 'defer',
    )
);

```

```
wp_enqueue_script() 'ajax-script-two'
```

```
$args
```

```
jQuery AJAX PHP jQuery
```

```
$title_nonce = wp_create_nonce( 'title_example' );
```

```
title_example
```

```
jQuery PHP jQuery my_ajax_obj admin-ajax.php URL wp_localize_script()
```

```
wp_localize_script(
    'ajax-script',
    'my_ajax_obj',
    array(
        'ajax_url' => admin_url( 'admin-ajax.php' ),
        'nonce'    => $title_nonce,
    )
);
```

```
ajax-script
```

```
add_action( 'admin_enqueue_scripts', 'my_enqueue' );

/**
 * Enqueue my scripts and assets.
 *
 * @param $hook
 */
function my_enqueue( $hook ) {
    if ( 'myplugin_settings.php' !== $hook ) {
        return;
    }
}
```

```

wp_enqueue_script(
    'ajax-script',
    plugins_url( '/js/myjquery.js', __FILE__ ),
    array( 'jquery' ),
    '1.0.0',
    true
);

wp_localize_script(
    'ajax-script',
    'my_ajax_obj',
    array(
        'ajax_url' => admin_url( 'admin-ajax.php' ),
        'nonce' => wp_create_nonce( 'title_example' ),
    )
);
}

```

```
current_user_can()
```

## AJAX

PHP AJAX [WordPress](#)

**\$\_GET** **\$\_POST** **\$\_COOKIE** **\$\_REQUEST**

```
$_GET $_POST $_COOKIE $_REQUEST POST GET $_REQUEST
```

```
jQuery action: "my_tag_count" wp_ajax_my_tag_count . wp_ajax_nopriv_my_tag_count
```

```
add_action( 'wp_ajax_my_tag_count', 'my_ajax_handler' );
```

```
/**
```

```
* Handles my AJAX request.
```

```
*/
```

```
function my_ajax_handler() {
```

```
// Handle the ajax request here
```

```
wp_die(); // All ajax handlers die when finished
```

```
}
```

AJAX `check_ajax_referer()`

```
check_ajax_referer( 'title_example' );
```

`wp_create_nonce()`

```
}}
```

`$_POST['title']` `wp_unslash()`

```
$title = wp_unslash( $_POST['title'] );
```

`update_user_meta()`

```
update_user_meta( get_current_user_id(), 'title_preference', sanitize_post_title( $title ) );
```

```
}}
```

```
$args = array(
    'tag' => $title,
);
$query = new WP_Query( $args );
```

`jQuery`

## XML

PHP `XML` `WP_Ajax_Response` `WP_Ajax_Response` `XML`

## JSON

`wp_send_json` `WP_Ajax_Response` `WordPress` `wp_send_json_success` `wp_send_json_error`  
`done()` `failed()`

```
}}
```

```
echo esc_html( $title ) . ' ( ' . $the_query->post_count . ' ) ';
```



[WP\\_Ajax\\_Response](#) [WP\\_send\\_json\\*](#) [wp\\_die\(\)](#) [WordPress](#)

## AJAX

AJAX

```
/**
 * AJAX handler using JSON
 */
function my_ajax_handler_json() {
    check_ajax_referer( 'title_example' );
    $title = wp_unslash( $_POST['title'] );

    update_user_meta( get_current_user_id(), 'title_preference', sanitize_post_title( $title ) );

    $args = array(
        'tag' => $title,
    );
    $the_query = new WP_Query( $args );
    wp_send_json( esc_html( $title ) . ' ( ' . $the_query->post_count . ' ) ' );
}
```

```
/**
 * AJAX handler not using JSON.
 */
function my_ajax_handler() {
    check_ajax_referer( 'title_example' );
    $title = wp_unslash( $_POST['title'] );

    update_user_meta( get_current_user_id(), 'title_preference', sanitize_post_title( $title ) );
}
```

```
$args = array(
    'tag' => $title,
);
$query = new WP_Query( $args );
echo esc_html( $title ) . ' ( ' . $query->post_count . ' ) ';
wp_die(); // All ajax handlers should die when finished
}
```

# API

Heartbeat API WordPress API

## 

“tick” 15-120 heartbeat jQuery

Heartbeat

1. heartbeat-send
2. PH heartbeat\_received
3. S(heartbeat-tick)

## API

API JavaScript PHP

## 

Heartbeat

```
jQuery( document ).on( 'heartbeat-send', function ( event, data ) {  
    // Add additional data to Heartbeat data.  
    data.myplugin_customfield = 'some_data';  
});
```

## 

```
/**  
 * Receive Heartbeat data and respond.  
 *  
 * Processes data received via a Heartbeat request, and returns additional data to pass back to the front end.  
 */
```

```

* @param array $response Heartbeat response data to pass back to front end.
* @param array $data Data received from the front end (unslashed).
*
* @return array
*/
function myplugin_receive_heartbeat( array $response, array $data ) {
    // If we didn't receive our data, don't send any back.
    if ( empty( $data['myplugin_customfield'] ) ) {
        return $response;
    }

    // Calculate our data and pass it back. For this example, we'll hash it.
    $received_data = $data['myplugin_customfield'];

    $response['myplugin_customfield_hashed'] = sha1( $received_data );
    return $response;
}

add_filter( 'heartbeat_received', 'myplugin_receive_heartbeat', 10, 2 );

```



```

jQuery( document ).on( 'heartbeat-tick', function ( event, data ) {
    // Check for our data, and use it.
    if ( ! data.myplugin_customfield_hashed ) {
        return;
    }

    alert( 'The hash is ' + data.myplugin_customfield_hashed );
});

```





```

$title = wp_unslash( $_POST['title'] );

update_user_meta( get_current_user_id(), 'title_preference', $title );

$args = array(
    'tag' => $title,
);

$query = new WP_Query( $args );

echo esc_html( $title ) . ' ( ' . $query->post_count . ' ) ';

wp_die(); // all ajax handlers should die when finished
}

```

## jQuery

js/myjquery.js

```

jQuery(document).ready(function($) {
    //wrapper
    $(".pref").change(function() {
        //event
        var this2 = this; //use in callback
        $.post(my_ajax_obj.ajax_url, {
            //POST request
            _ajax_nonce: my_ajax_obj.nonce, //nonce
            action: "my_tag_count", //action
            title: this.value //data
        }, function(data) {
            //callback
            this2.nextSibling.remove(); //remove the current title
            $(this2).after(data); //insert server response
        });
    });
});

```

- [WordPress](#) [AJAX](#)
- [WordPress](#) [AJAX](#)