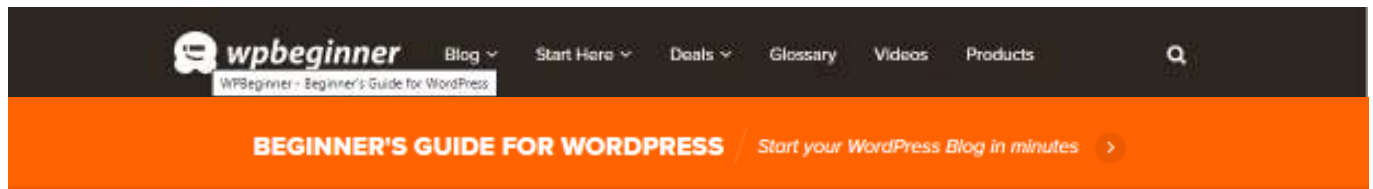


<https://www.wpbeginner.com/plugins/how-to-add-captcha-in-wordpress-login-and-registration-form/>:



How to Add CAPTCHA in WordPress Login and Registration Form (wpbeginner.com)

Last updated on October 9th, 2019 by [Editorial Staff](#)



Do you want to add CAPTCHA to login and registration forms on your WordPress site?

Often WordPress login page and user registration page are a prime target for hackers, spammers, and brute force attacks.

The attackers motivation is often to gain unauthorized access to your WordPress admin area to distribute malware or in other cases crash the entire network of websites hosted with a specific web hosting company to collect ransom.

One way to avoid these attacks is by using CAPTCHA which effectively blocks spambots and protects your site from being hacked.

In this article, we will show you how to easily add CAPTCHA in WordPress login and registration form.



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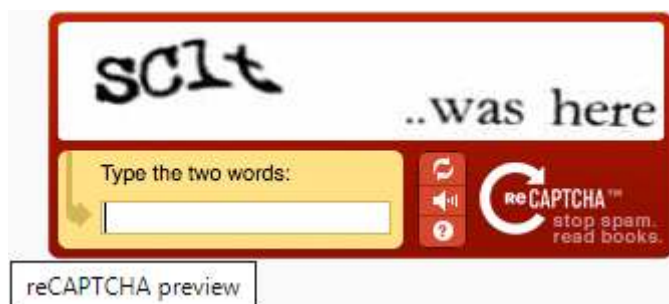
What is CAPTCHA?

A CAPTCHA is a computer program used to distinguish between human and automated users. It does that by presenting a test that would be quite easy for a human user to pass but way harder and almost impossible for automated scripts to get right.

In the earlier days of the CAPTCHA, users were asked to enter the text they saw in an image. This image displayed random letters, words, or numbers in a distorted style.



Later, a newer technology called reCAPTCHA was introduced. It showed random words as a challenge and used the user input to help digitalize books.



This technology was acquired by Google in 2009. Since then, it has helped digitalized thousands of books and complete New York Times archives.

However, these new CAPTCHAs were still annoying and ruined the user experience on websites.

To fix this, Google introduced "No CAPTCHA reCAPTCHA" which uses AI and user interactions to catch spambots.



It shows an easier checkbox for human users to click on. For other suspicious traffic, it would show a more difficult CAPTCHA like identifying objects in images.

That being said, let's take a look at how WordPress websites can improve security with CAPTCHA.

Why Use CAPTCHA for WordPress Login and Registration?

WordPress login and registration pages are an easy target for spammers, wannabe hackers, and brute force attacks.

That's because WordPress is the most [popular website builder](#) in the world, which makes it a common target for malicious attempts.

The easiest solution to protect your WordPress site is by using a [WordPress firewall plugin](#) like [Sucuri](#). It will block bad traffic from reaching your website and prevent unauthorized access.

Another solution is to add a secondary layer of [password protection on WordPress login](#) and registration pages. However, the problem with this method is that you'll have to share that second password with each user, and this simply doesn't scale for large multi-author blogs or membership sites.


CAPTCHA provides an easier alternative to those solutions. It uses Google's AI technologies to detect genuine visitors and present CAPTCHA challenges to suspicious users.

That being said, let's take a look at how to easily add CAPTCHA to your WordPress site.

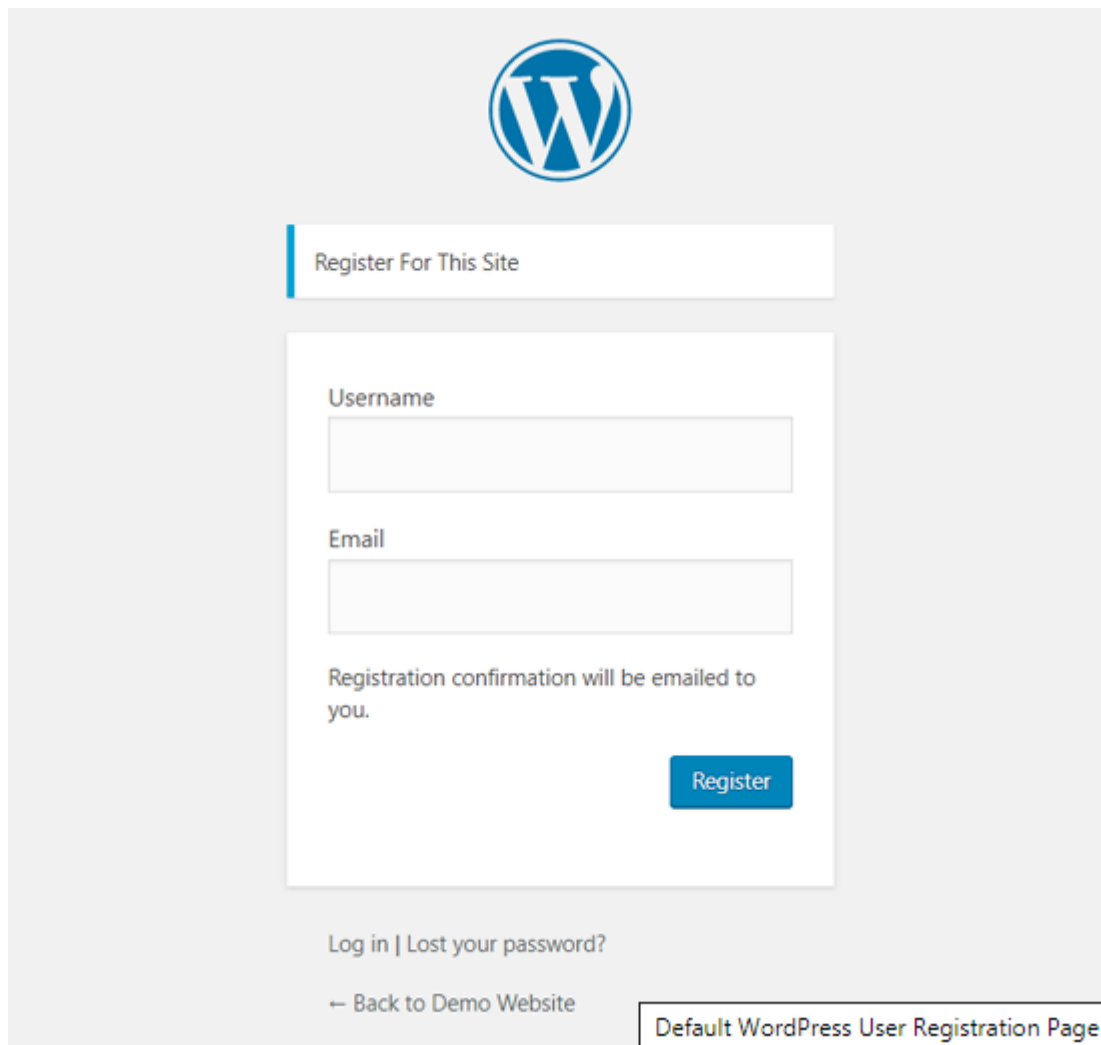
Default vs Custom WordPress Login and Registration Form

The default WordPress login and registration form provide a basic set of features.

The login page allow users to access the backend of your website according to their respective [user roles and permissions](#).

The image shows the default WordPress login page. At the top center is the WordPress logo, a blue circle with a white 'W'. Below the logo is a white rectangular login form. Inside the form, there are two input fields: the first is labeled 'Username or Email Address' and the second is labeled 'Password'. Below the password field is a checkbox labeled 'Remember Me'. To the right of the checkbox is a blue button with the text 'Log In'. Below the login form, there are two links: 'Register' and 'Lost your password?'. At the bottom left, there is a link that says '← Back to Demo Website'. At the bottom right, there is a box containing the text 'Default WordPress Login Page'.

The [default WordPress registration form](#) lets visitors create an account on your site. Once they are registered, they can also login to your website backend and perform specific tasks allowed by their user role.



Register For This Site

Username

Email

Registration confirmation will be emailed to you.

Register

Log in | Lost your password?

← Back to Demo Website

Default WordPress User Registration Page

A lot of website owners want to customize the default WordPress login and registration page with their own logo, styles, etc. They use one of the many plugins to create their own custom login and registration page to replace the default ones.

Whether you're using the default pages or custom ones, we have got you covered.

In this guide, we will show you how to set up reCAPTCHA for both default and custom login and registration pages in WordPress.

Let's get started by adding reCAPTCHA in default WordPress login and registration form.

Adding reCAPTCHA to Default WordPress Login and Registration Form

First thing you need to do is install and activate the [Advanced noCAPTCHA & reCAPTCHA \(v2 & V3\)](#) plugin. For more details, see our step by step guide on [how to install a WordPress plugin](#).

Once the plugin is activated, you need to visit **Settings » Advanced noCAPTCHA & Invisible CAPTCHA** page from your admin panel. Once done, WordPress will take you to the plugin's general settings page.

Advanced noCaptcha & invisible captcha Settings

Google Keys

Get reCaptcha keys from [Google](#). Make sure to get keys for your selected captcha version.

Version: V2 "I'm not a robot" ▼

Select your reCaptcha version. Make sure to use site key and secret key for your selected version.

Site Key:

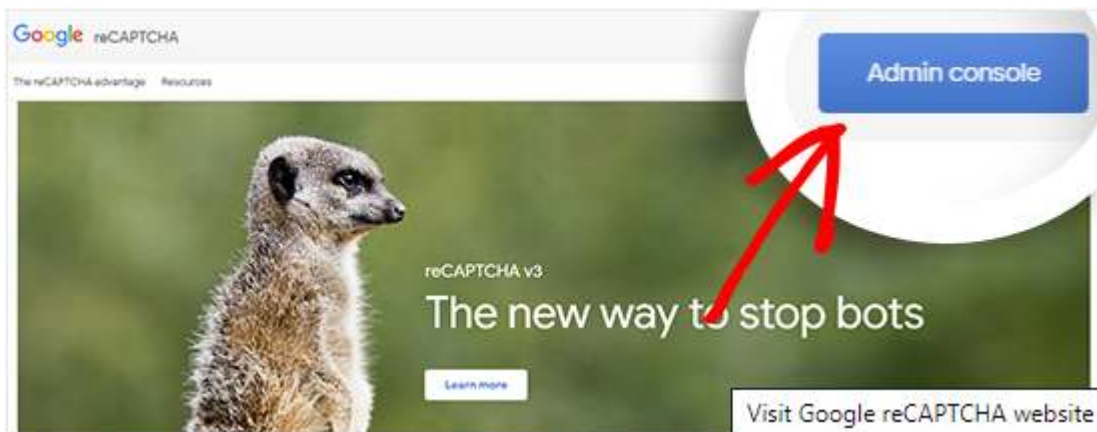
Secret Key:

Advanced noCaptcha & invisible Captcha (v2 & v3) Settings

From there, you need to choose a Google reCAPTCHA version and find reCAPTCHA API keys to enable the service on your site.

We recommend using v2 because we believe v3 is not as stable just yet.

To obtain these API keys, you need to visit [reCAPTCHA website](#) and click on the 'Admin Console' button.



On the next screen, Google will ask you to sign in to your account. Once you are logged in, you will see the 'Register a new site' page.

Google reCAPTCHA

← **Register a new site**

Label ⓘ

Demo Website 12 / 50

reCAPTCHA type ⓘ

☐ reCAPTCHA v3 Verify requests with a score

☒ reCAPTCHA v2 Verify requests with a challenge

☒ "I'm not a robot" Checkbox Validate requests with the "I'm not a robot" checkbox

☐ Invisible reCAPTCHA badge Validate requests in the background

☐ reCAPTCHA Android Validate requests in your android app

Register a New Site for Google reCAPTCHA

First, you need to enter your website name in the Label field. After that, you need to select a reCAPTCHA type. For example, we will choose reCAPTCHA v2 'I'm not a robot' checkbox.

Next, you need to enter your domain name under the Domains section. Make sure to enter your domain name without 'https://www.'

Domains ⓘ

+ example.com

Owners ⓘ

redacted@domain.com (You)

+ Enter email addresses

Add Domain Name and Owner for Google reCAPTCHA

The Owners section shows your email address and also lets you add a new owner.

After that you need to check the box next to 'Accept the reCAPTCHA Terms of Service'. Optionally, you can also check the 'Send alerts to owners' box to receive email alerts about suspicious traffic or captcha misconfiguration on your site.

☒ **Accept the reCAPTCHA Terms of Service**

By accessing or using the reCAPTCHA APIs, you agree to the Google APIs [Terms of Use](#), Google [Terms of Use](#) and to the Additional Terms below. Please read and understand all applicable terms and policies before accessing the APIs.

reCAPTCHA Terms of Service ▼

☒ **Send alerts to owners** ⓘ

[CANCEL](#) [SUBMIT](#)

Submit and register your WordPress site

Once done, click on the Submit button.

Next, you will see a success message along with the site and secret keys that you can use on your site.

Google reCAPTCHA

Adding reCAPTCHA to your site

'Demo Website' has been registered.

Use this site key in the HTML code your site serves to users. [See client side integration](#)

[COPY SITE KEY](#)

Use this secret key for communication between your site and reCAPTCHA. [See server side integration](#)

[COPY SECRET KEY](#)

Google reCAPTCHA API Keys

Now you need to open your WordPress dashboard and go to **Settings » Advanced noCAPTCHA & Invisible CAPTCHA** page to set up Google reCAPTCHA.

Once you are on the plugin settings page, you need to choose the Google reCAPTCHA version first. Since we've registered our site for Google reCAPTCHA v2 'I'm not a robot,' we will select that option from the dropdown.

Advanced noCaptcha & invisible captcha Settings

Google Keys

Get reCaptcha keys from [Google](#). Make sure to get keys for your selected captcha version.

Version

V2 "I'm not a robot" ▼

V2 "I'm not a robot"

V2 Invisible

V3

Site Key

Secret Key

Settings

General

Writing

Reading

Discussion

Media

Permalinks

Privacy

Advanced noCaptcha & invisible captcha

Choose Google reCAPTCHA V2 in Advanced noCAPTCHA & Invisible CAPTCHA (v2 & v3)

After that, you need to enter the site key and secret key provided by Google reCAPTCHA earlier.

Advanced noCaptcha & invisible captcha Settings

Google Keys

Get reCaptcha keys from [Google](#). Make sure to get keys for your selected captcha version.

Version

V2 "I'm not a robot" ▼

Select your reCaptcha version. Make sure to use site key and secret key for your selected version.

Site Key

6L8D0YUAAAAA...

Secret Key

6L8D0YUAAAAA...

Forms

Enabled Forms

☐ Login Form

Enter Site Key and Secret Key to Add reCAPTCHA to WordPress

Next, you will see the 'Enabled Forms' option. Check the box next to the forms where you want to enable the Google reCAPTCHA. Here, we will choose the Login Form and Registration Form.

Advanced noCaptcha & invisible captcha Settings

Google Keys
Get reCaptcha keys from [Google](#). Make sure to get keys for your selected captcha version.

Version: V2 "I'm not a robot" ▼
Select your reCaptcha version. Make sure to use site key and secret key for your selected version.

Site Key: 6Ld...
Secret Key: 6Ld...

Forms


Enabled Forms

- ☒ Login Form
- ☒ Registration Form
- ☐ Multisite User Signup Form
- ☐ Lost Password Form
- ☐ Reset Password Form

Enable reCAPTCHA for Default WordPress Login and Registration Form


After that, you can scroll down the page to review other options. Once you're done with the customization, click on the 'Save Changes' button at the bottom.

That's it! You have successfully added reCAPTCHA in default WordPress login and registration form. To preview it, you can open your [WordPress login URL](#) on your browser. For example; [www.example.com/wp-login.php](#).



Username or Email Address

Password

☐ I'm not a robot 
reCAPTCHA Privacy - Terms

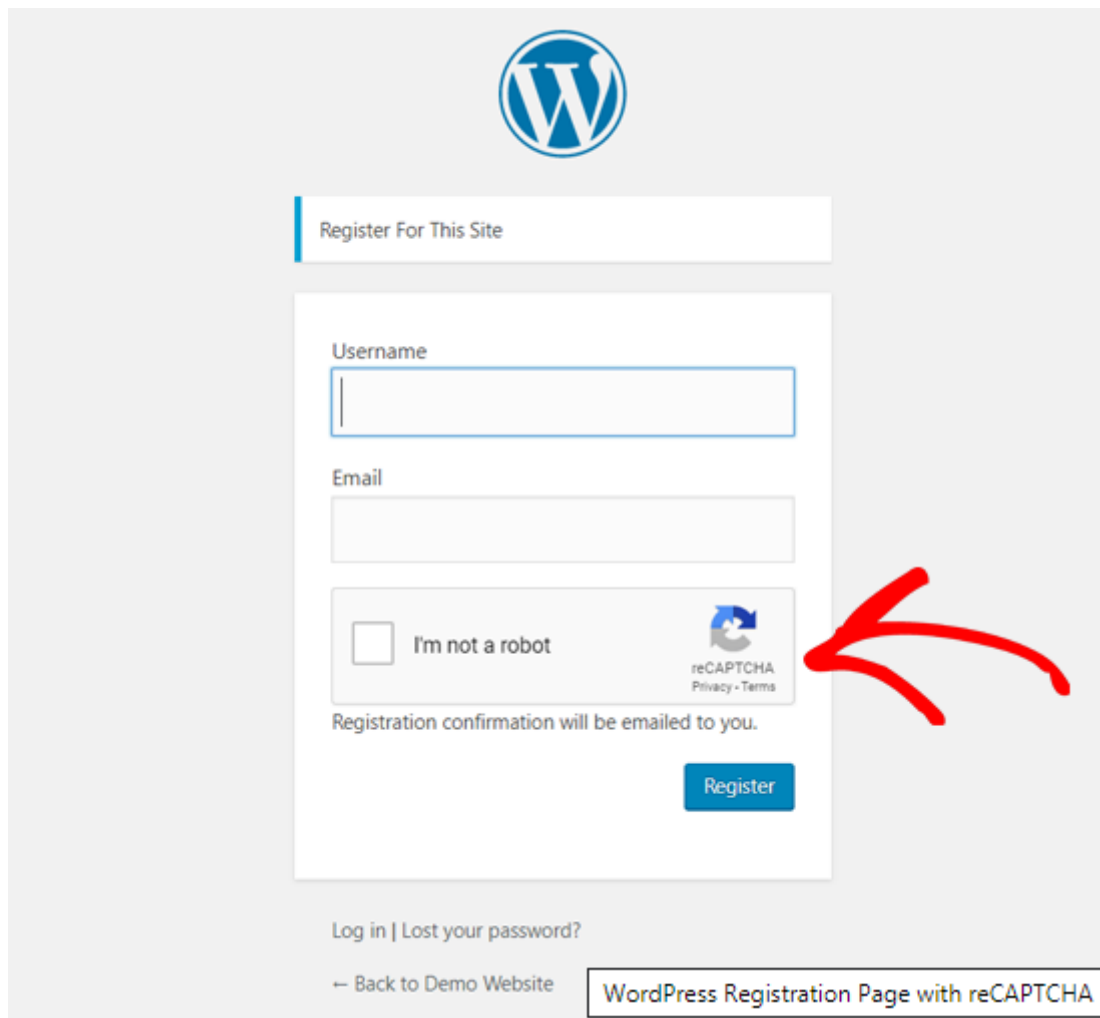
☐ Remember Me

[Register](#) | [Lost your password?](#)

[← Back to Demo Website](#)

WordPress Login Page With Google reCAPTCHA

If you want to check the reCAPTCHA on the registration form, then click on the Register link below the login form. After that, the WordPress registration form will open, and you can see how reCAPTCHA works.



The image shows a WordPress registration form titled "Register For This Site". It features a WordPress logo at the top. The form includes input fields for "Username" and "Email". Below these is a reCAPTCHA widget with the text "I'm not a robot" and a checkbox. A red arrow points to the reCAPTCHA widget. Below the reCAPTCHA, it says "Registration confirmation will be emailed to you." and a blue "Register" button. At the bottom, there are links for "Log in | Lost your password?" and "← Back to Demo Website". A label at the bottom right reads "WordPress Registration Page with reCAPTCHA".

Setting Up reCAPTCHA in Custom WordPress Login and Registration Form

As we mentioned earlier, custom WordPress login and registration forms offer more user-friendly membership options to your website visitors.

First, you can allow users to register or login to your website from the frontend. This improves user experience and lets you keep the same overall design experience across the website.

Next, it lets you add your website logo and customize the login and registration page in your style.

Creating a custom WordPress login form and user registration form is easy with the most user-friendly WordPress form plugin, [WPForms](#) (used by over 2 million websites).

To get started, install and activate the [WPForms plugin](#) on your WordPress site. For more details, see our step by step guide on [how to install a WordPress plugin](#).

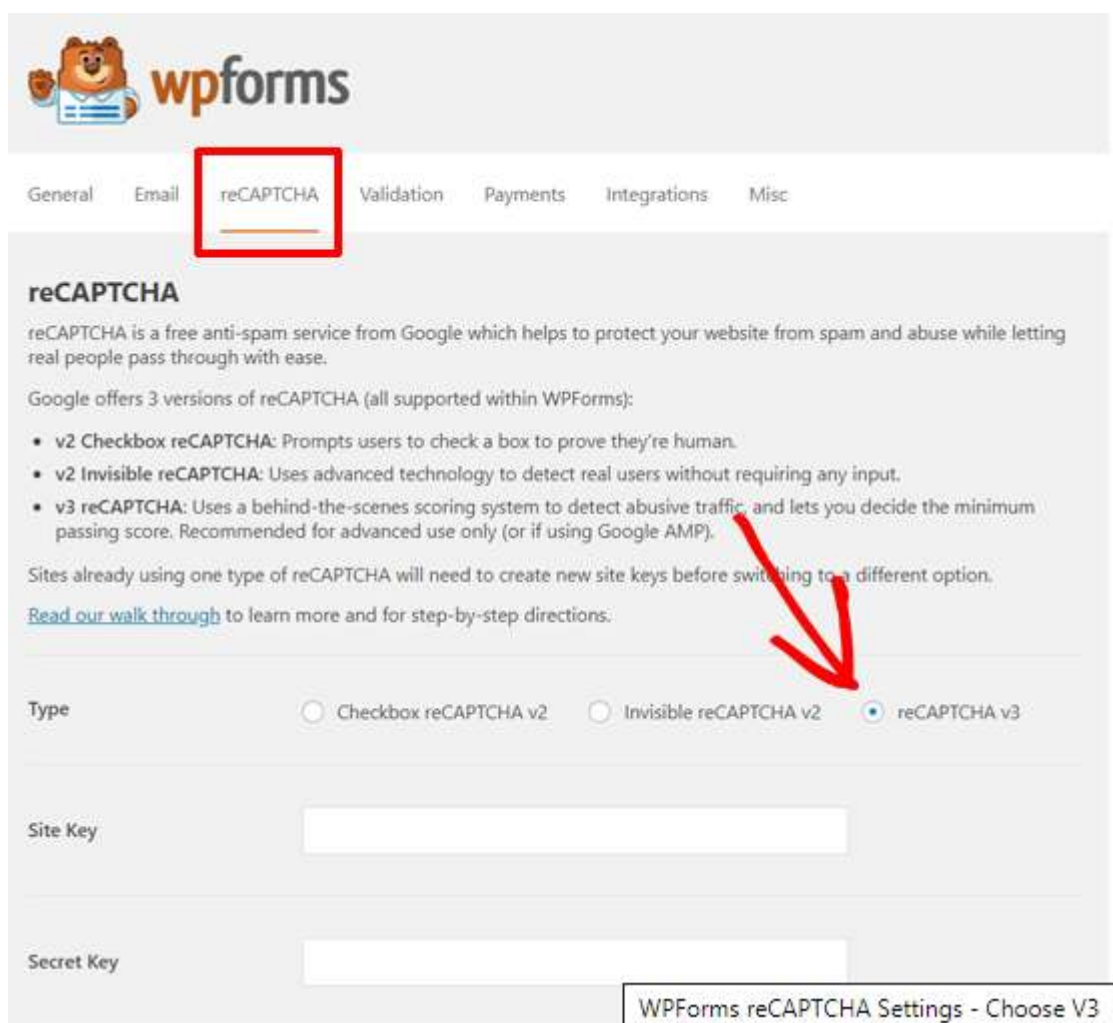
To create custom WordPress user registration form quickly, you need to get at least [WPForms Pro plan](#).

Upon activation, head over to **WPForms » Settings** page to enter your WPForms license key. You can get this key from your account area on the WPForms website.



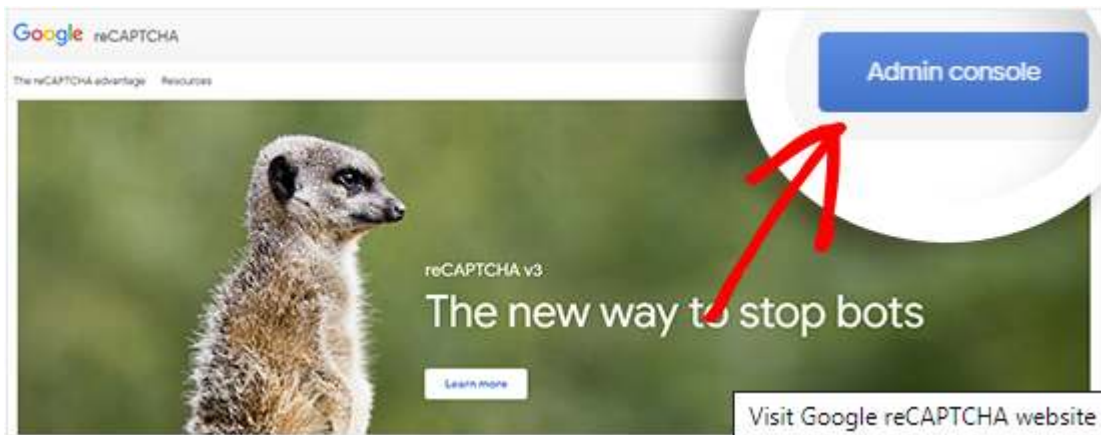
After that, click on the reCAPTCHA option at the top to configure reCAPTCHA for your custom made WordPress forms. First, you need to choose a reCAPTCHA type.

Since we chose v2 earlier, we will choose reCAPTCHA v3 here in this example, but please know that our recommendation is still v2.



After that, you will see the site key and secret key field. To get these keys, you need to register your site on Google reCAPTCHA website.

Go to the [Google reCAPTCHA website](#) and then click on the Admin Console button at the top right corner.

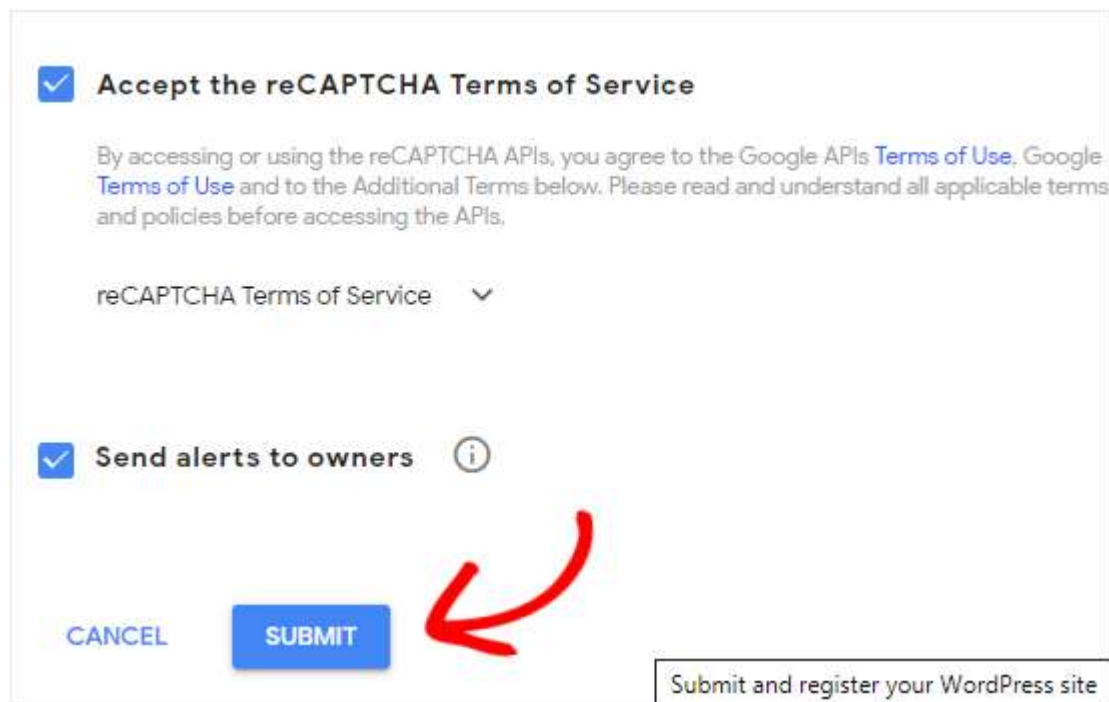


After that, Google will ask you to sign in to your account. Once done, you will see the 'Register a new site' page.

Enter your website name and then select reCAPTCHA v3 from the reCAPTCHA type option. Next, you need to enter your domain name (without https://www.) as shown in the screenshot below.

If you want to add another Gmail user as the owner of the reCAPTCHA, then you can add the email address under the Owners section.

After that, you need to accept the reCAPTCHA terms of service. You can also check the box next to 'Send alerts to owners' option to get notification emails from Google about suspicious traffic on your site.



☒ **Accept the reCAPTCHA Terms of Service**

By accessing or using the reCAPTCHA APIs, you agree to the Google APIs [Terms of Use](#), Google [Terms of Use](#) and to the Additional Terms below. Please read and understand all applicable terms and policies before accessing the APIs.

reCAPTCHA Terms of Service ▼

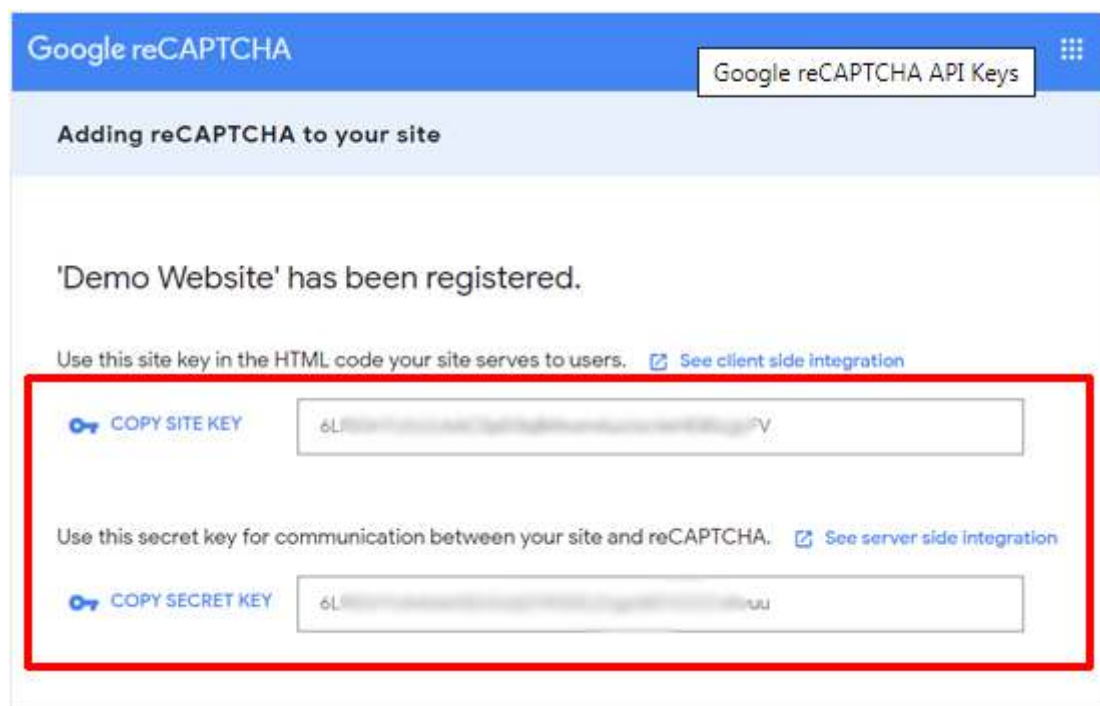
☒ **Send alerts to owners** ⓘ

[CANCEL](#) [SUBMIT](#)

Submit and register your WordPress site

Once done, click on the Submit button.

After that, Google will show a success message along with the site key and the secret key to add reCAPTCHA to your site.



Google reCAPTCHA Google reCAPTCHA API Keys

Adding reCAPTCHA to your site

'Demo Website' has been registered.

Use this site key in the HTML code your site serves to users. [See client side integration](#)

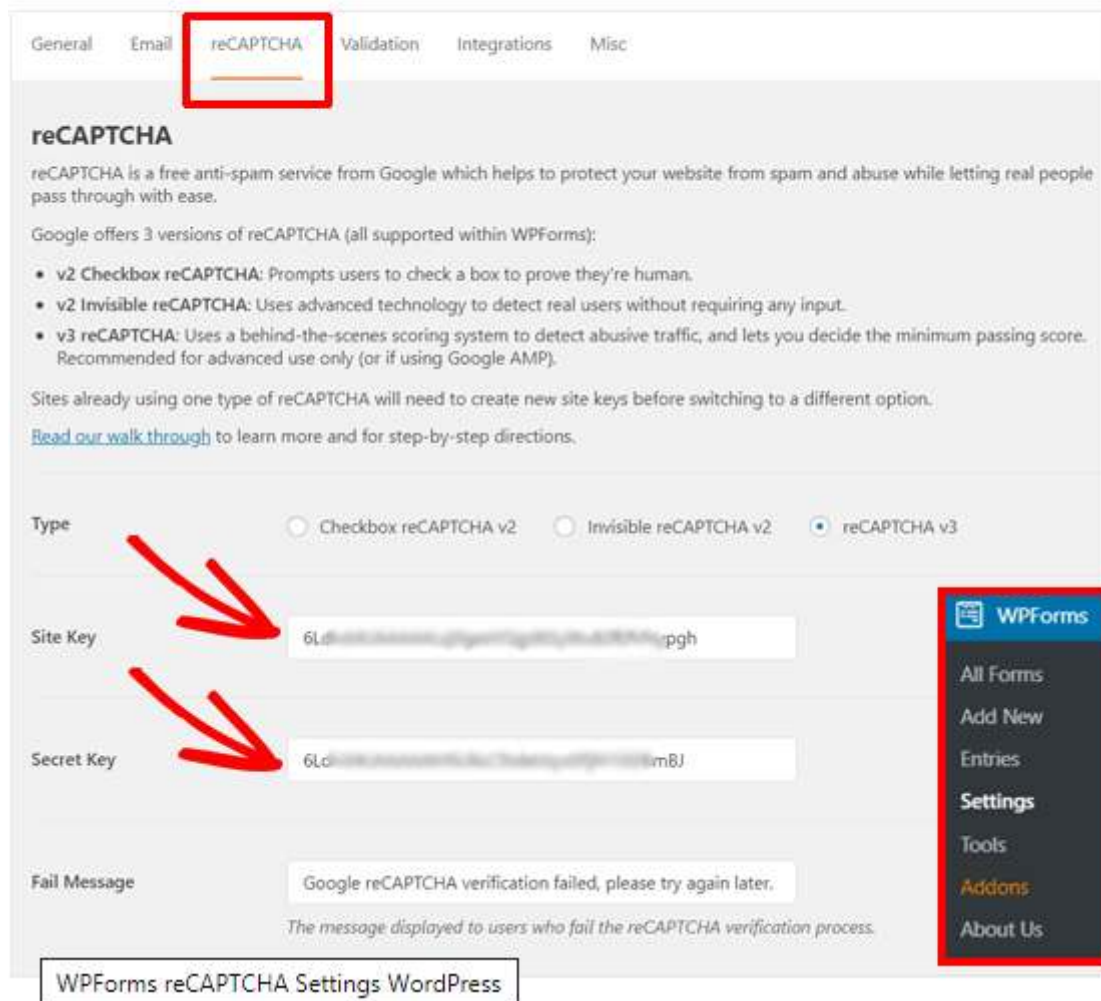
[COPY SITE KEY](#)

Use this secret key for communication between your site and reCAPTCHA. [See server side integration](#)

[COPY SECRET KEY](#)

Now that you have the Google reCAPTCHA API keys, you need to open **WPForms » Settings » reCAPTCHA** page in your WordPress dashboard.

Now that you have the Google reCAPTCHA API keys, you need to open **WPForms » Settings » reCAPTCHA** page in your WordPress dashboard.



General Email **reCAPTCHA** Validation Integrations Misc

reCAPTCHA

reCAPTCHA is a free anti-spam service from Google which helps to protect your website from spam and abuse while letting real people pass through with ease.

Google offers 3 versions of reCAPTCHA (all supported within WPForms):

- **v2 Checkbox reCAPTCHA:** Prompts users to check a box to prove they're human.
- **v2 Invisible reCAPTCHA:** Uses advanced technology to detect real users without requiring any input.
- **v3 reCAPTCHA:** Uses a behind-the-scenes scoring system to detect abusive traffic, and lets you decide the minimum passing score. Recommended for advanced use only (or if using Google AMP).

Sites already using one type of reCAPTCHA will need to create new site keys before switching to a different option.
[Read our walk through](#) to learn more and for step-by-step directions.

Type ☐ Checkbox reCAPTCHA v2 ☐ Invisible reCAPTCHA v2 ☒ reCAPTCHA v3

Site Key

Secret Key

Fail Message

The message displayed to users who fail the reCAPTCHA verification process.

WPForms reCAPTCHA Settings WordPress

WPForms

- All Forms
- Add New
- Entries
- Settings**
- Tools
- Addons
- About Us

On the WPForms reCAPTCHA settings page, enter the site key and secret key. Once done, save your settings.

Now that you have successfully added reCAPTCHA on WPForms, you can easily enable reCAPTCHA in your custom login form, user registration form, or any form built with WPForms.

So now let's go ahead and create a custom WordPress registration form.

Visit **WPForms » Addons** page. Locate 'User Registration Addon' and click on the 'Install Addon'.

The screenshot shows the WPForms dashboard. On the left, a sidebar menu has 'Addons' highlighted in orange. The main area displays the 'User Registration Addon' card, which is currently 'Status: Not Installed'. A red arrow points to the 'Install Addon' button on this card. Below the card, a text box says 'Install WPForms User Registration Addon'.

After that, WPForms will download and install the addon. Once you see the User Registration Addon's status 'Active,' you are ready to add a new user registration form.

Now you need to go to **WPForms » Add New** to launch the WPForms Builder. On the WPForms setup page, select 'User Registration Form' template.

The screenshot shows the WPForms Setup page. On the left, a sidebar menu has 'Setup' highlighted in orange. The main area displays a grid of form templates: 'Donation Form', 'Billing / Order Form', 'Newsletter Signup Form', 'Suggestion Form', 'User Login Form', and 'User Registration Form'. A red arrow points to the 'User Registration Form' template. Below the grid, a text box says 'Select User Registration Form Template WPForms'.

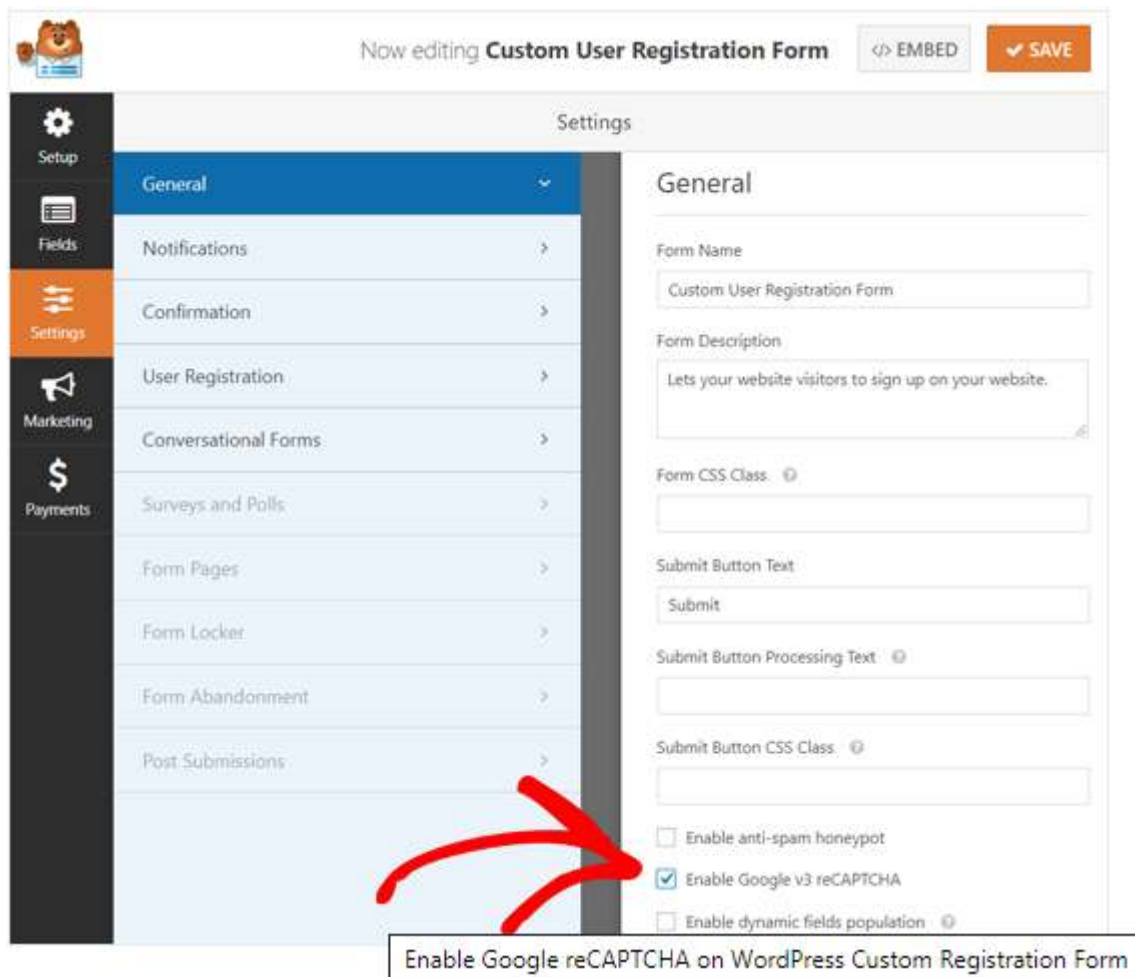
After that, WPForms will automatically build a custom user registration form and open the Form Setup page.

The screenshot shows the WPForms 'Fields' editor for a 'User Registration Form'. On the left is a sidebar with navigation icons for Setup, Fields (active), Settings, Marketing, and Payments. The main area is titled 'Fields' and contains two tabs: 'Add Fields' and 'Field Options'. Below these are two sections: 'Standard Fields' and 'Fancy Fields'. The 'Standard Fields' section includes buttons for Single Line Text, Paragraph Text, Dropdown, Multiple Choice, Checkboxes, Numbers, Name, and Email. The 'Fancy Fields' section includes buttons for Phone, Address, Date / Time, Website / URL, File Upload, Password, Page Break, and Section Divider. On the right, a preview of the 'User Registration Form' is shown. It features a title 'User Registration Form', a 'Name' field split into 'First' and 'Last' sub-fields, a 'Username' field, an 'Email' field, a 'Password' field, and a 'Short Bio' field. Below the 'Short Bio' field is a small text prompt: 'Share a little information about yourself.' At the bottom right of the preview, there is a text box containing the text 'User Registration Form Builder WPForms'.

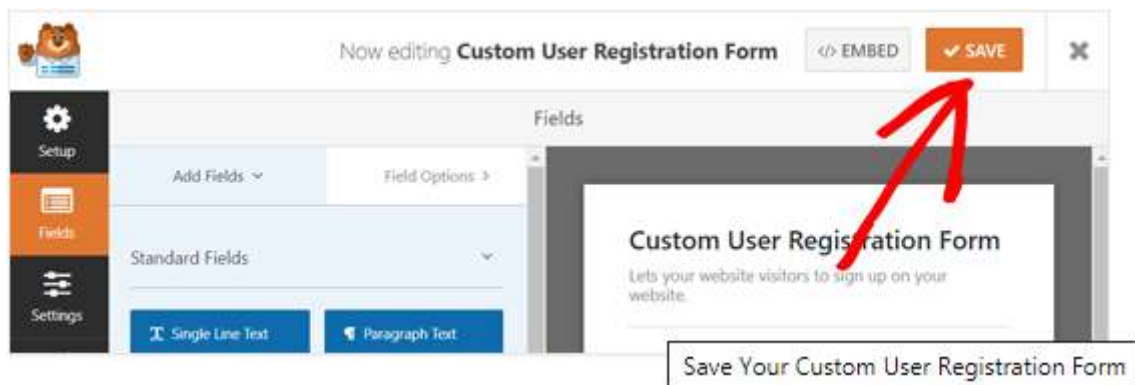
Now you can customize your form by adding new fields or editing the field options. If you like the default form, then you can use it without making any changes.

Next, you need to click on the Settings option to configure your form settings and enable the Google reCAPTCHA.

On the General Settings page, you can edit your form name, add form description, edit the Submit button text, and more. At the bottom, you can see checkboxes including Enable Google v3 reCAPTCHA box.



Simply check the box to enable Google reCAPTCHA in your user registration form. Once done, click on the Save button at the top right corner.

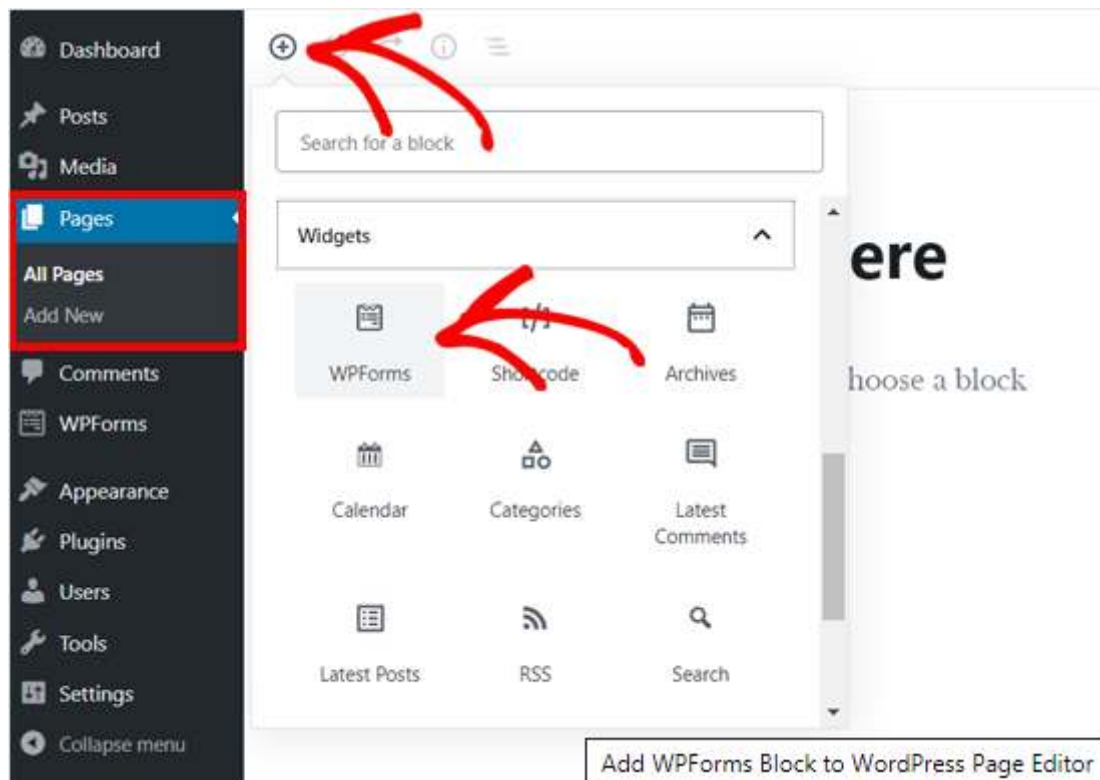


After that, you can close the form builder by clicking on the Close button next to the Save button.

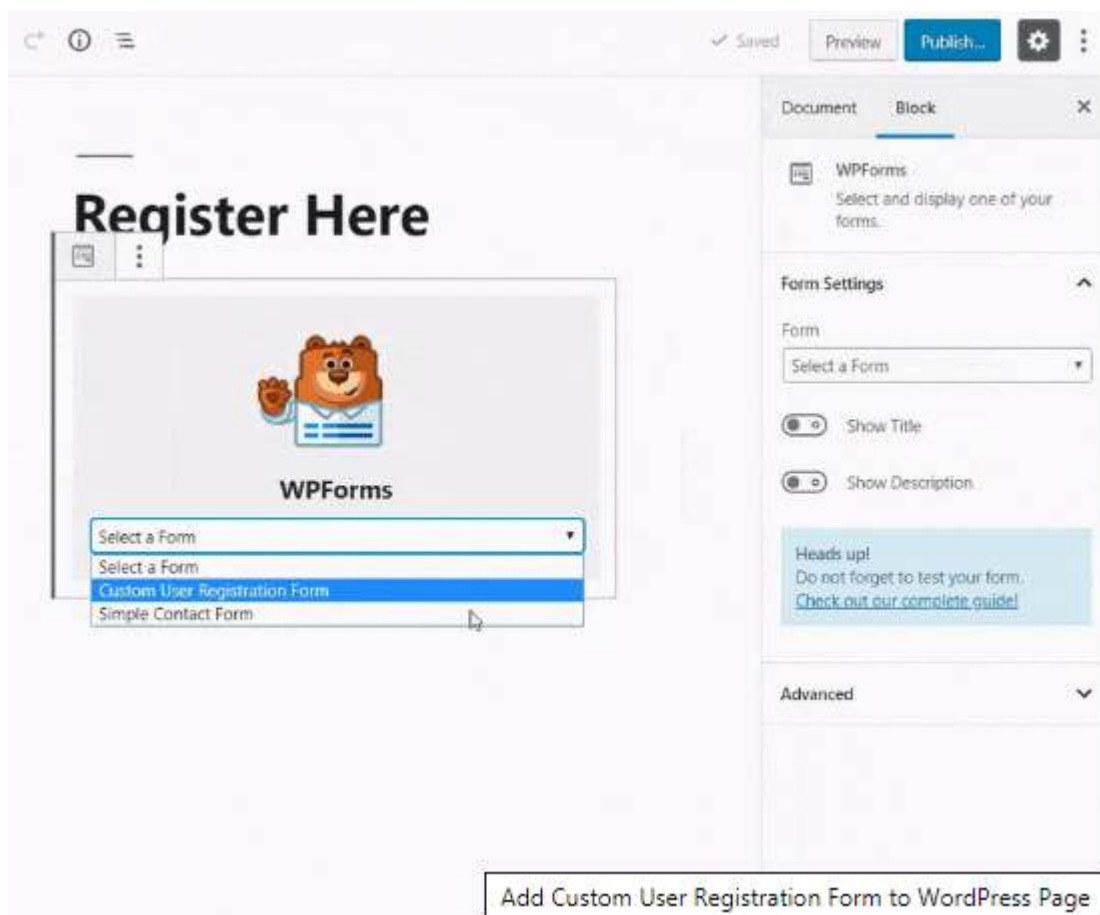
That's it! You have created a custom WordPress user registration form and also added reCAPTCHA to it.

The next thing you need to do is add the custom user registration form on your site. You can add the form to your posts, pages, or any widget-ready area easily. For example, we will create a new page and add the form to it.

Go to **Pages » Add New** page from your WordPress dashboard to build a new page. On your page edit screen, click on the 'Add New Block' icon and select the WPForms block.



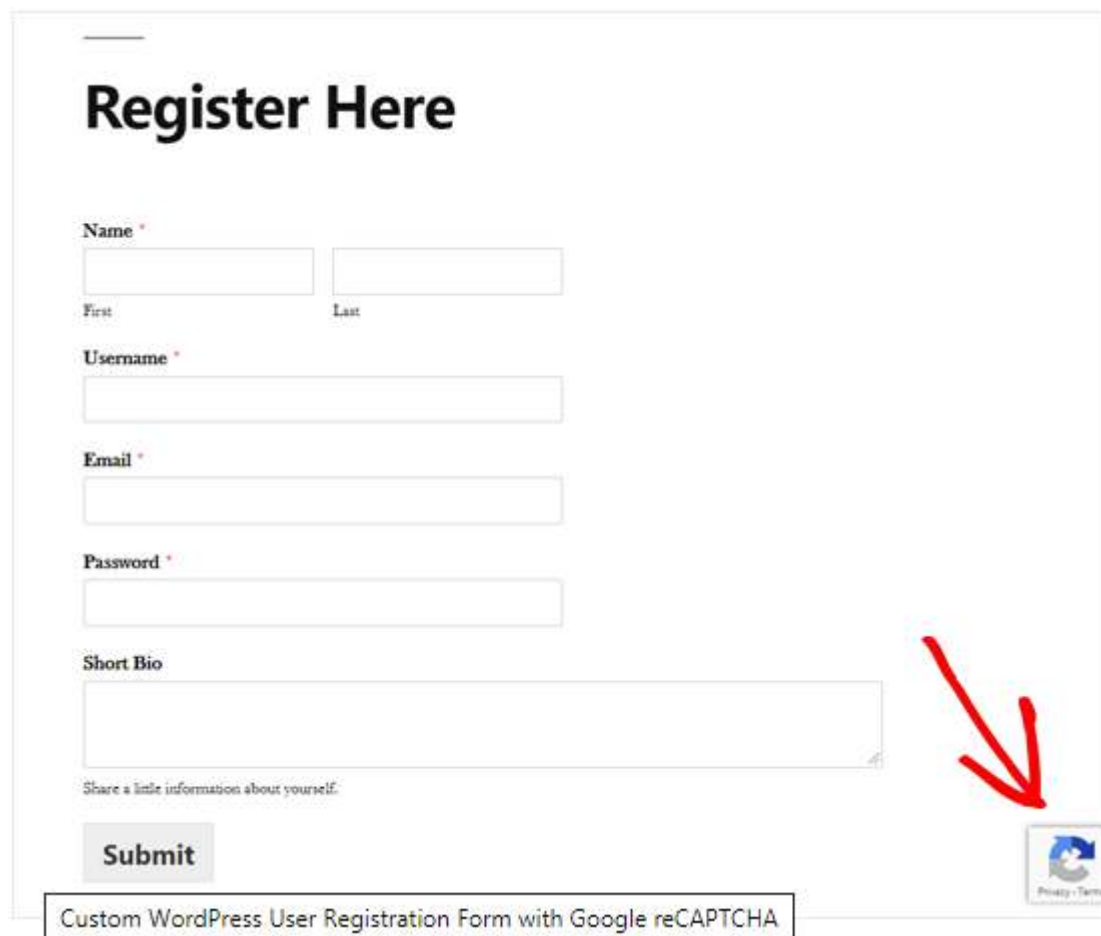
Next, you can see the WPForms widget added to your page edit screen. You just need to select the Custom User Registration Form you created earlier. After that, the widget will automatically load the form in the page editor.



Next, you can add other necessary content and publish the page.

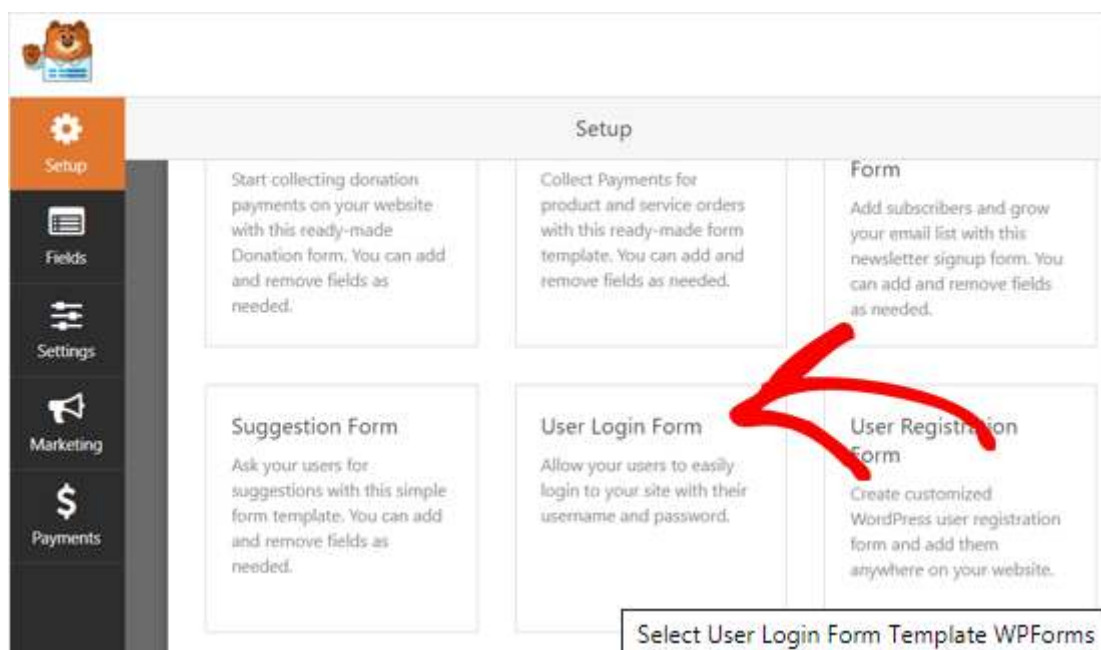
Now you can open the page on your web browser to see the custom user registration form with Google reCAPTCHA in action.

Since we chose reCAPTCHA v3 in this example, you won't see a Google reCAPTCHA checkbox like 'I'm not a robot'. This is because reCAPTCHA v3 works in the background, but you will still see a small badge at the bottom right corner.



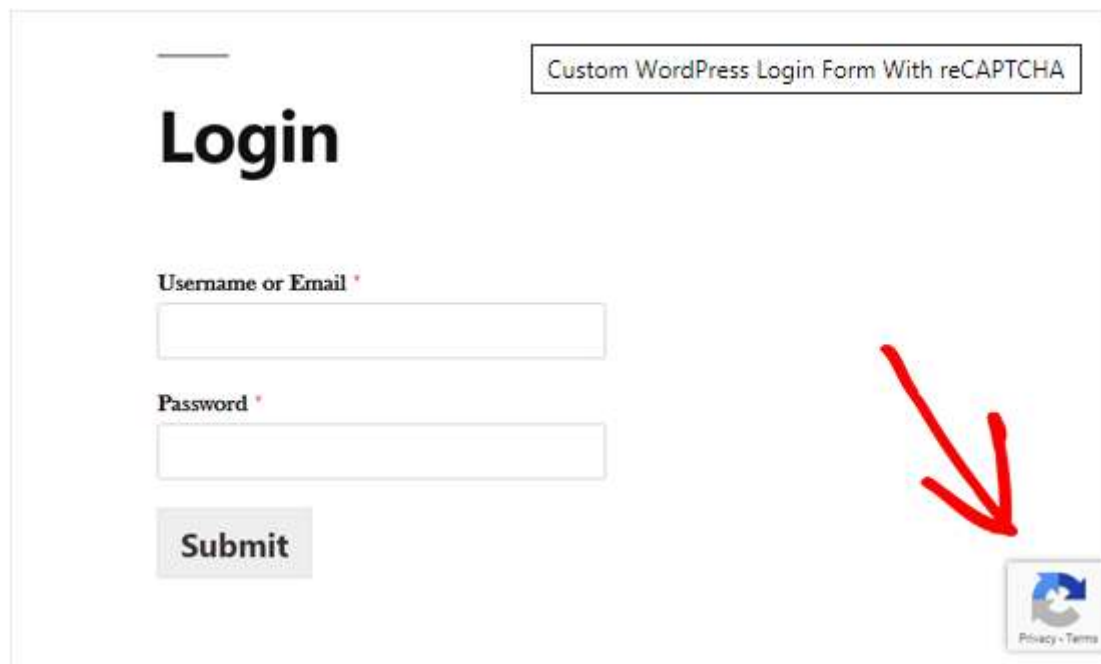
The image shows a 'Register Here' form with the following fields: Name (First and Last), Username, Email, Password, and Short Bio. A red arrow points to a small Google reCAPTCHA badge in the bottom right corner. A text box at the bottom of the form reads 'Custom WordPress User Registration Form with Google reCAPTCHA'.

The process of creating a custom login form is almost the same. The only difference is that you need to choose the User Login Form template from the WPForms setup page.



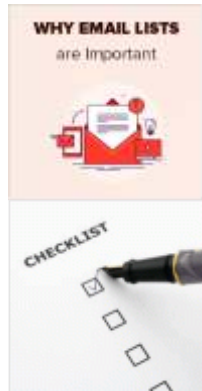
The image shows the WPForms Setup page with a sidebar menu containing Setup, Fields, Settings, Marketing, and Payments. The main area is titled 'Setup' and contains six form templates: Donation Form, Product and Service Orders Form, Newsletter Signup Form, Suggestion Form, User Login Form, and User Registration Form. A red arrow points to the 'User Login Form' template. A text box at the bottom of the page reads 'Select User Login Form Template WPForms'.

After that, the whole process is the same. For more details, you can see our guide on how to [create a custom login page in WordPress](#).



We hope this article helped you to learn how to add CAPTCHA in WordPress login and registration forms. You may also want to see our [ultimate WordPress security guide](#) to strengthen your overall website security.

If you liked this article, then please subscribe to our [YouTube Channel](#) for WordPress video tutorials. You can also find us on [Twitter](#) and [Facebook](#).



[Revealed: Why Building an Email List is so Important Today \(6 Reasons\)](#)

[Checklist: 15 Things You MUST DO Before Changing WordPress Themes](#)



[How to Fix the Error Establishing a Database Connection in WordPress](#)
[How to Start Your Own Podcast \(Step by Step\)](#)

```
1 <?php
2 add_action('wp_head', 'wpb_add_ga_analytics');
3 function wpb_add_ga_analytics() { ?>
4
5 // Paste your Google Analytics code from Step 4 here
6
7 <?php } ?>
```



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