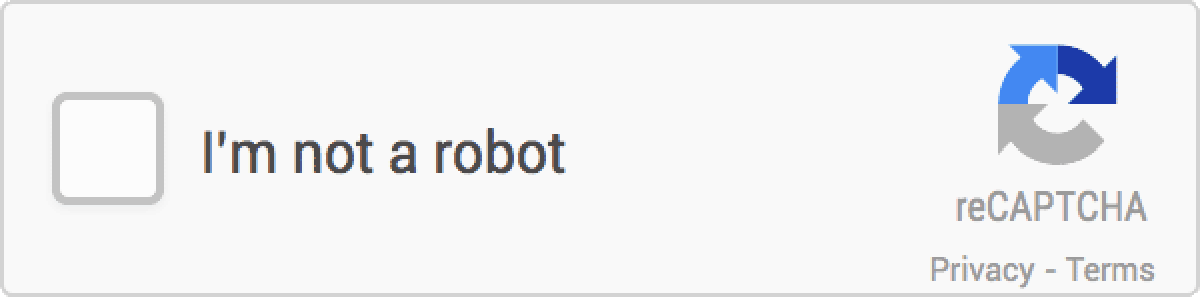
reCAPTCHA



CAPTCHA

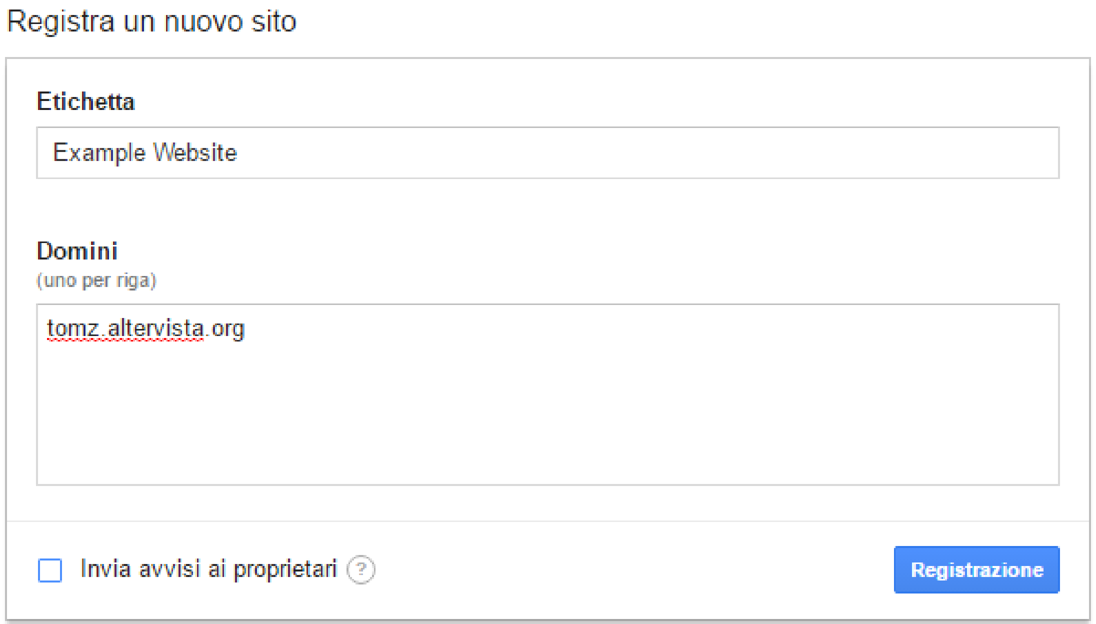
A **CAPTCHA** (Completely Automated Public Turing test to tell Computers and Humans Apart) is a type of challenge-response test used in computing to determine whether or not the user is human.

[wikipedia.org]

Google provides free APIs for ReCAPTCHA, that lets you embed a CAPTCHA in your web pages in order to protect them against spam and other types of automated abuse.

reCAPTCHA key pair

To use reCAPTCHA, you need to sign up here for an API key pair for your site. The key pair consists of a **site key** and **secret**. At the time of the registration you will need to specify the domain name.



Registra un nuovo sito

Etichetta

Example Website

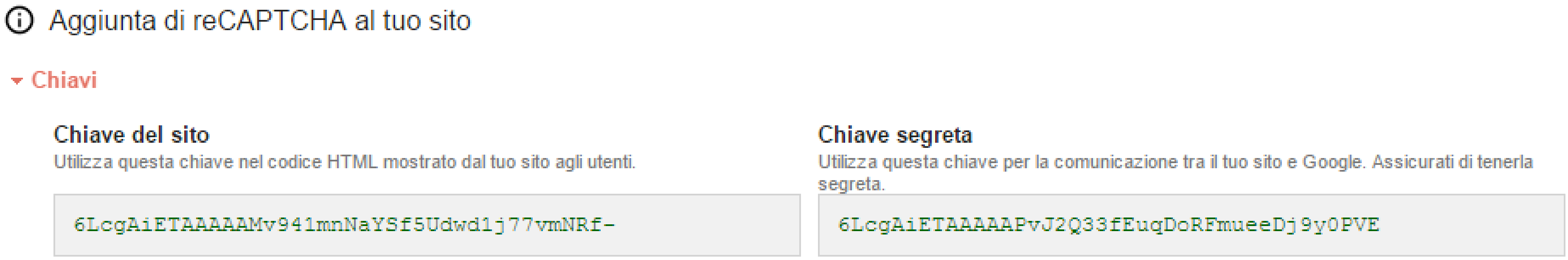
Domini
(uno per riga)

tomz.altervista.org

□ Invia avvisi ai proprietari ?

reCAPTCHA key pair

- The **site key** is used to display the widget on your site.
- The **secret key** authorizes communication between your backend application and the reCAPTCHA server to verify the user's response. The secret key needs to be kept safe for security purposes.



ⓘ Aggiunta di reCAPTCHA al tuo sito

▾ Chiavi

Chiave del sito
Utilizza questa chiave nel codice HTML mostrato dal tuo sito agli utenti.

```
6LcgAiETAAAAMv941mnNaYSf5Udwd1j77vmNRf-
```

Chiave segreta
Utilizza questa chiave per la comunicazione tra il tuo sito e Google. Assicurati di tenerla segreta.

```
6LcgAiETAAAAAPvJ2Q33fEuqDoRFmueeDj9y0PVE
```

Display the widget

- Before closing the </head> tag you have to include the JS library:

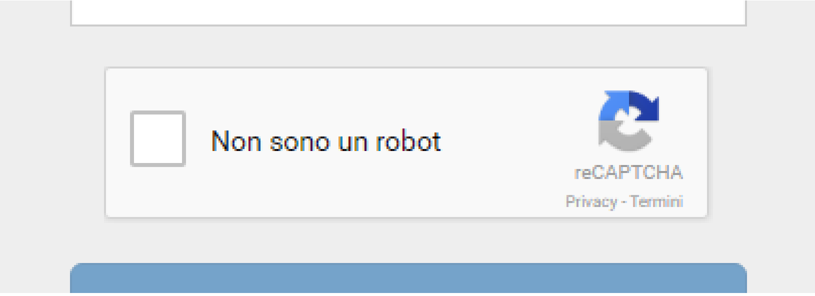
```
<script src='https://www.google.com/recaptcha/api.js'></script>
```

- Then you have to put this div into the form, where you want to see the widget:

```
<div class="g-recaptcha" data-sitekey="XXXXX"></div>
```

Display the widget

If you’ve done everything correctly, you should now be able to see the widget in the page:

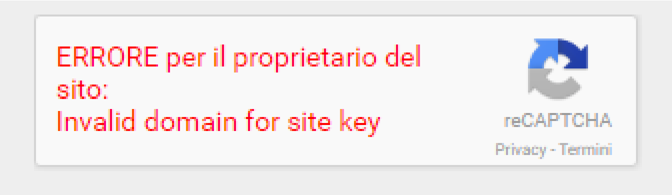


□ Non sono un robot

reCAPTCHA

Privacy - Termini

Instead, if you entered a wrong domain you will see a similar thing:



ERRORE per il proprietario del sito:
Invalid domain for site key

reCAPTCHA

Privacy - Termini

Control on the client

Before sending the data to the server you need to check if the user clicked on the reCAPTCHA control. You can do this with JS.

In order, you have to:

1. Disable the submit button
2. Set a callback function on the reCAPTCHA widget

Then, if the callback function is called, you can enable the submit button.

Control on the client - Example

HTML

```
<form>

<div class="g-recaptcha" data-callback="recaptchaCallback" data-sitekey="XXXXX"></div>
<button id="submitBtn" type="submit" disabled>Send</button>

</form>
```

JS

```
function recaptchaCallback() {
        $('#submitBtn').removeAttr('disabled');
}
```

Control on the server

First you have to check if you receive, as a part of the payload, a string named "g-recaptcha-response".

Then, you have to make a POST request to the page *https://www.google.com/recaptcha/api/siteverify* with these parameters:

secret (mandatory)	Your secret key.
response (mandatory)	The value of "g-recaptcha-response ".
remoteip	The IP address of the user.

Control on the server - Example

```
if(!isset($_POST['g-recaptcha-response'])) die();

$url = 'https://www.google.com/recaptcha/api/siteverify';
$data = array('secret'=>'XXXXX', 'response'=>$_POST['g-recaptcha-response'], 'remoteip'=>$_SERVER['REMOTE_ADDR']);
$options = array(
          'http' => array(
                    'header'  => "Content-type: application/x-www-form-urlencoded\r\n",
                    'method'  => 'POST',
                    'content' => http_build_query($data)
          )
);

$context = stream_context_create($options);
$result = file_get_contents($url, false, $context);
if ($result === FALSE) die();
$array = json_decode($result, true);

if($array['success']) {
          /*DO WHAT YOU WANT TO DO*/
} else die();
```