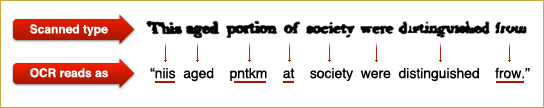
CAPTCHA (Completely Automated Public Turing test to tell Computers and Humans Apart)

*It si little code at bottom of form with numbers/characters to fill and verify.*

*Recaptcha is totally different.* reCAPTCHA is rather neat and free. Not only does it stop spammers but it helps digitize books. Each word that appears in the captcha has actually been scanned in from a book but sometimes the character recognition is off so the computer my save some gibberish of a sentence without knowing any better.

See the image off their site: [](http://www.google.com/recaptcha/learnmore)

By making people type in what they think the word is, it helps create a digital copy of the book or word that was scanned with accuracy while at the same time checking what the user submit, comparing it to other's submissions, and determining if the user is human or not.

For that reason I use reCAPTCHA. I'm not just selfishly protecting my site, I'm providing a service for others.

Not only that but it's fairly simple to implement and provided by a reliable company

Basic Idea to use Recaptcha

Go to link ; <https://www.youtube.com/watch?v=euRAfUGX8wY>

How it works

1. Your public key is required while generating client-side page.
2. The client uses this public key to request from recaptcha: an image, a corresponding correct answer and perhaps an id. Of course the answer and the id comes encrypted, using the public key. (So the client cannot know the answer)
3. User types in the answer, sends it to your server.
4. You have: {id, answer} encrypted using public key. You send your private key and this encrypted message to recaptcha server.
5. recaptcha unencrypts the message, revealing the answer and id, and checks if they match.
6. it tells your server the result of the check.

Note:

1. If the user sends a public key of his own to recaptcha, the check won't succeed since your private key does not work with his public key.
2. The scheme proves that your server is really the one receiving the recaptcha answe

2. CAPTCHA is the human validation tes (usually the blurry squiglly letters that need to be deciphered) t used by many sites to prevent spam.

[reCAPTCHA](http://blog.minteye.com/2009/08/01/recaptcha-definition-what-is-recaptcha/) is a reversed CAPTCHA - the same test, used not only to prevent spam but to help in the book digitazion project. In other words, the reCAPTCHA tests are not meaningless combination of words, but excerpts from books that undergo digitation, while CAPTCHA uses several human validation methods including math or general knowledge questions, visual puzzles and even chess puzzles.

Google purchased reCAPTCHA several years ago, and not it is also used to collect street view data.

6Le7ngsTAAAAAPe3UjxtPUNtsiBbsJAP4-gSYjiP

**Secret key**

Use this for communication between your site and Google. Be sure to keep it a secret.

6Le7ngsTAAAAAIpSvkRQn36CbvJYaaJxM4B6fbST

**Step 1: client-side integration**

Paste this snippet before the closing </head> tag on your HTML template:<script src='https://www.google.com/recaptcha/api.js'></script>Paste this snippet at the end of the <form> where you want the reCAPTCHA widget to appear:<div class="g-recaptcha" data-sitekey="6Le7ngsTAAAAAPe3UjxtPUNtsiBbsJAP4-gSYjiP"></div>[The reCAPTCHA documentation site](https://developers.google.com/recaptcha/) describes more details and advanced configurations.

**Step 2: Server side integration**

When your users submit the form where you integrated reCAPTCHA, you'll get as part of the payload a string with the name "g-recaptcha-response". In order to check whether Google has verified that user, send a POST request with these parameters:

**URL**: https://www.google.com/recaptcha/api/siteverify

|  |  |
| --- | --- |
| **secret** (required) | 6Le7ngsTAAAAAIpSvkRQn36CbvJYaaJxM4B6fbST |
| **response** (required) | The value of 'g-recaptcha-response'. |
| **remoteip** | The end user's ip address. |

**"why shouldn't I use it**",

so some criticisms:

Recaptcha volunteers your users to be OCR monkeys, without bothering to ask their opinion.

It requires that you advertise recaptcha in the captcha widget, which isn't always appropriate.

It's a web service, which means there's no hard guarantee it'll still exist a week or a year or two years from now. (Google has crippled or removed public, widely-used APIs in the past, such as their translation API.)

It only supports web pages, loading everything with scripts and iframes. It doesn't have a proper API, so if you ever want to have an iOS or Android app that logs into your system, and need to show a captcha there, you'll be out of luck.

You have no control over the complexity of the generated captcha. Captchas always have a tradeoff between how hard they are to read and how difficult they are to OCR. There are no knobs to adjust, based on how important stopping robots is to your use case. If they decide to make the captchas much harder to read (which they've done at times), and this becomes a nuisance to your users, there's nothing you can do about it.

Link: <https://developers.google.com/recaptcha/docs/display>

<https://code.google.com/p/recaptcha/wiki/HowToSetUpRecaptcha>