

Solving CAPTCHAs for Fun

by *@vavkamil*

~\$ whoami

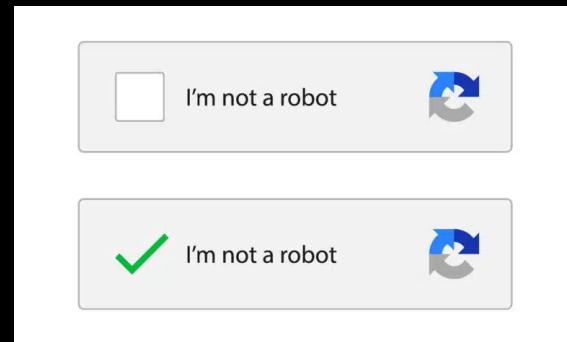
- Kamil Vavra (@vavkamil)
- Application Security Engineer
- Burp Suite Certified Practitioner
- Offensive Web Application Security
- OWASP Czech Chapter Leader
- Moderator of [reddit.com/r/bugbounty](https://www.reddit.com/r/bugbounty)
- vavkamil.cz
- github.com/vavkamil
- twitter.com/vavkamil
- [linkedin.com/in/vavkamil](https://www.linkedin.com/in/vavkamil)
- [reddit.com/user/vavkamil](https://www.reddit.com/user/vavkamil)

~\$ Agenda

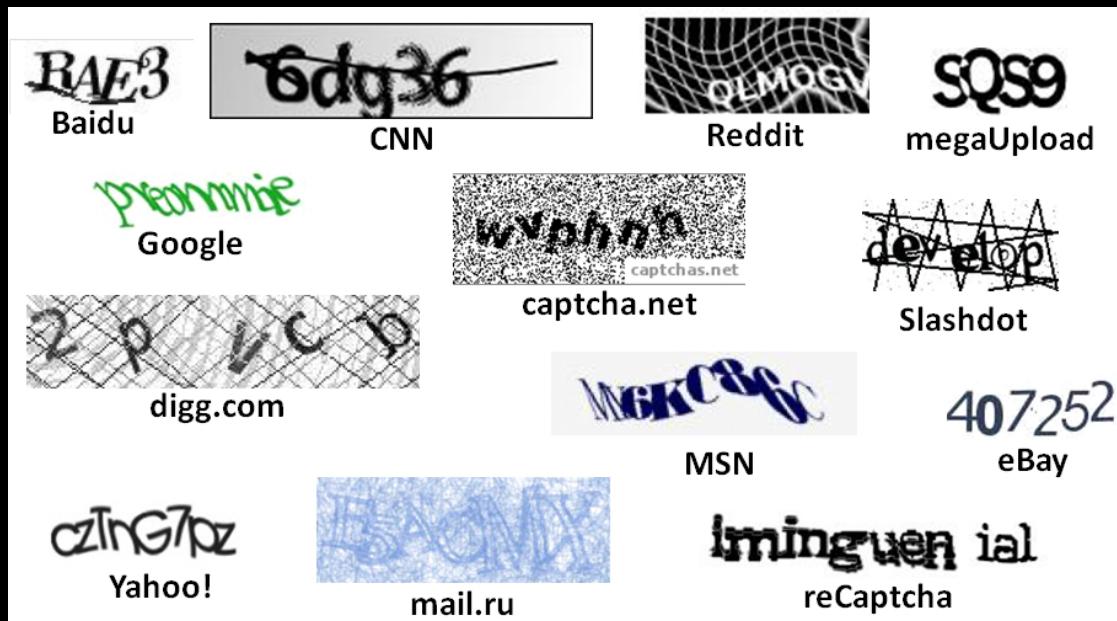
- Wtf is CAPTCHA
- Top CAPTCHA vendors
 - reCaptcha (Google)
 - hCaptcha (Intuition Machines)
 - Turnstile (Cloudflare)

~\$ Agenda

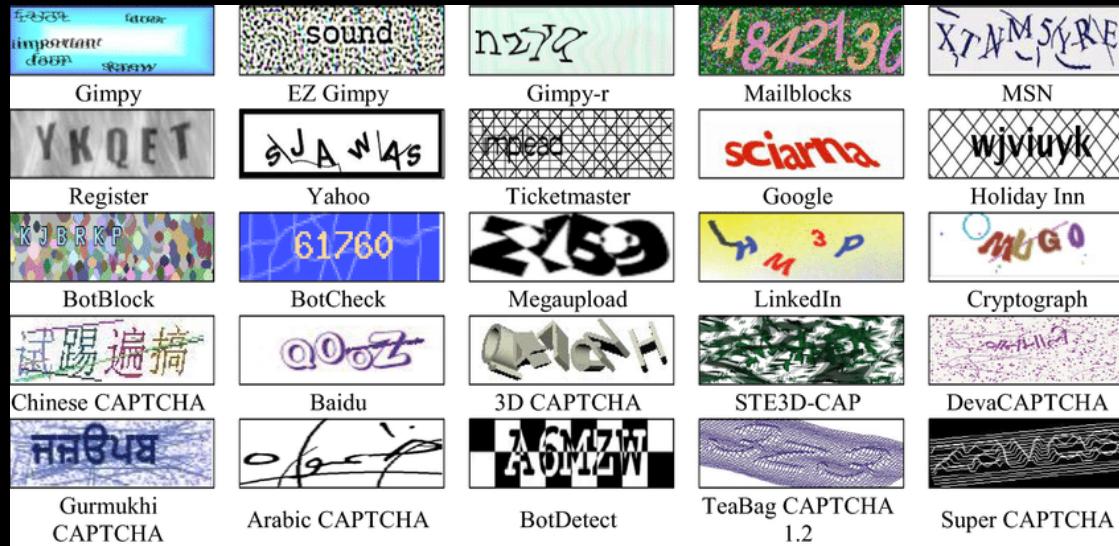
- Wtf is CAPTCHA
- Top CAPTCHA vendors
 - reCaptcha (Google)
 - hCaptcha (Intuition Machines)
 - Turnstile (Cloudflare)
- How to bypass CAPTCHAs
 - Top CAPTCHA-solving vendors
- Using AI to automate the process



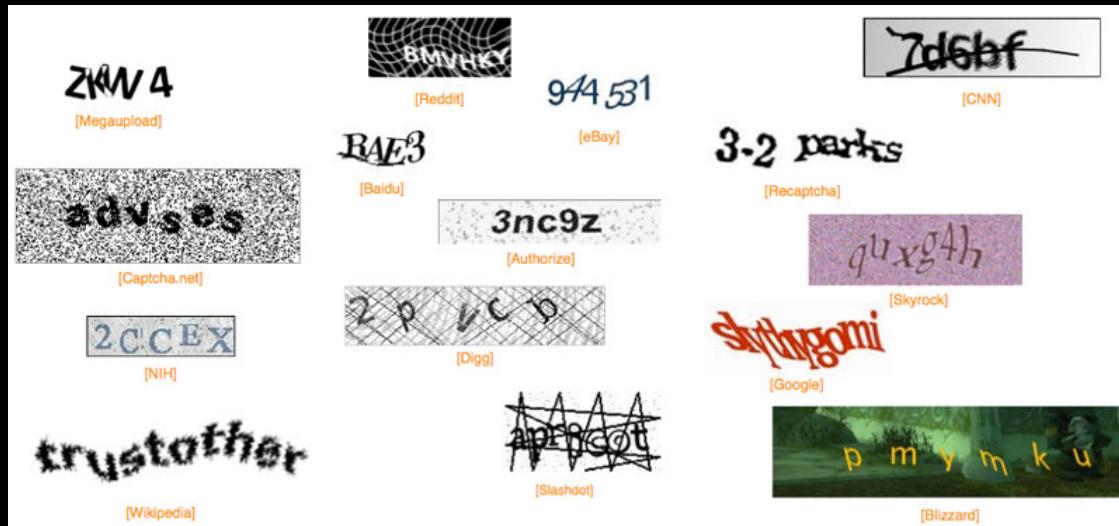
~\$ Old CAPTCHA examples



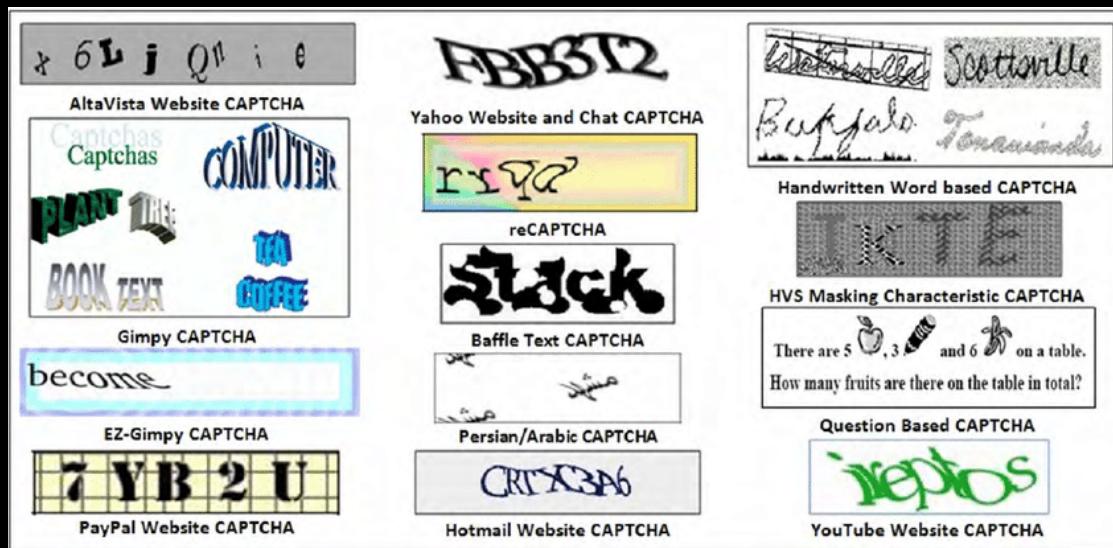
~\$ Old CAPTCHA examples



~\$ Old CAPTCHA examples



~\$ Old CAPTCHA examples



~\$ Old CAPTCHA examples

CAPTCHA module settings
Here you can select and configure CAPTCHA plugins, which implement various ways to reject registration attempts from so-called spambots.

General options

GD CAPTCHA foreground noise:
Use foreground noise to make the GD based CAPTCHA harder.
 Yes No

GD CAPTCHA background noise x-axis:
Use lower settings of this to make the GD based CAPTCHA harder. 0 will disable x-axis background noise.

GD CAPTCHA background noise y-axis:
Use lower settings of this to make the GD based CAPTCHA harder. 0 will disable y-axis background noise.

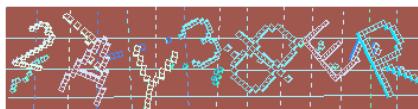
GD CAPTCHA wave distortion:
This applies a wave distortion to the CAPTCHA.
 Yes No

Add 3D-noise objects:
This adds additional objects to the CAPTCHA, over the letters.
 Yes No

Use different fonts:
This setting controls how many different letter shapes are used. You can just use the default shapes or introduce altered letters. Adding lowercase letters is also possible.
 Default New Shapes Also use lowercase

Preview

Preview:
The CAPTCHA as it would look like using the current selection.



Submit **Reset** **Preview**

~\$ Wtf is CAPTCHA

~\$ Wtf is CAPTCHA

- Completely
- Automated
- Public
- Turing test to tell
- Computers and
- Humans
- Apart
- The term was coined in early 2000's
 - by Luis von Ahn, Manuel Blum, Nicholas J. Hopper, and John Langford
 - Read the whitepaper *CAPTCHA: Using Hard AI Problems for Security*
 - *Abstract. We introduce captcha, an automated test that humans can pass, but current computer programs can't pass: any program that has high success over a captcha can be used to solve an unsolved Artificial Intelligence (AI) problem.*
- Luis von Ahn later founded reCAPTCHA in 2007, which was acquired by Google in 2009

~\$ (re)CAPTCHA origins

- In a September 2000 chief scientist of the Internet portal Yahoo, Dr. Udi Manber, *conference call* with a group of computer science researchers at Carnegie Mellon University
 - Yahoo had a problem with constant spam in their chat rooms and automated registrations of Yahoo e-mail accounts used for spam
- Dr. Manuel Blum, a professor at Carnegie Mellon proposed a solution: "*Why not devise a new sort of Turing test, that would be simple for humans but would baffle sophisticated computer programs.*"
 - He started working on it with his Ph.D. student Luis von Ahn (22-year-old) and others.
- They registered the *captcha.net* domain in 2001
- As a Proof of Concept, they designed two CAPTCHA proposals
 - Gimpy
 - Bongo

~\$ (re)CAPTCHA origins

Gimpy (text-based)

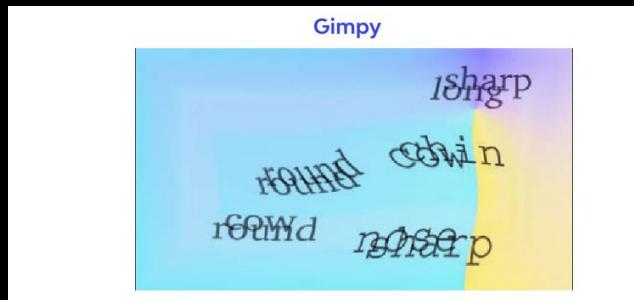
- It's based on the human ability to read an extremely distorted and corrupted text, and the inability of current computer programs to do the same
- Gimpy works by choosing a certain number of words from a dictionary and then displaying them distorted in an image;
 - Afterward, Gimpy asks the user to type the words displayed in that image.

Bongo (image-based)

- Bongo is a program that asks the user to solve a visual pattern recognition problem.
- Bongo displays two series of blocks, and the user must find the characteristic that sets the two series apart.
- After seeing the two series of blocks, the user is presented with four single blocks and is asked to determine whether each block belongs to the right series or the left

~\$ (re)CAPTCHA origins

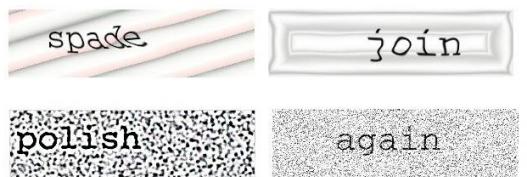
Gimpy (text-based)



• EZ-Gimpy

It's an assortment of Gimpy that just utilizes a single word.

EZ-Gimpy

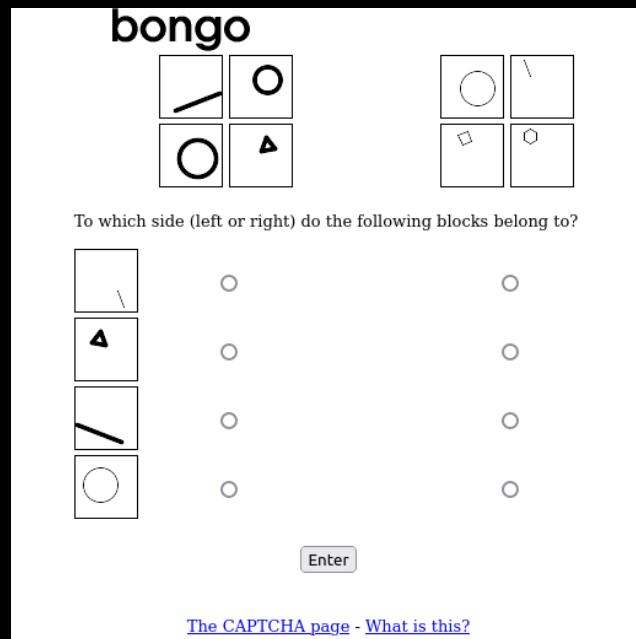


polish



again

Bongo (image-based)



[The CAPTCHA page](#) - [What is this?](#)

~\$ (re)CAPTCHA origins

- 2000 - Yahoo has a problem with spam
- 2001 - First PoC of CAPTCHA
- 2003 - CAPTCHA white paper released
- 2007 - reCAPTCHA company started
- 2008 - Over 100 million CAPTCHAs displayed/solved every day
- 2009 - reCAPTCHA acquired by Google
- 2012 - reCAPTCHA began using photographs taken from Google Street View
- 2014 - reCAPTCHA is only presenting challenges if it suspects that the user may be a bot
- 2017 - A new "invisible" reCAPTCHA introduced, where verification occurs in the background, and no challenges are displayed
- 2017 - New reCAPTCHA v3 introduced; This version is a complete shift from the challenge-based approach

~\$ CAPTCHA vendors

~\$ CAPTCHA vendors

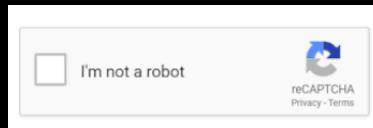
- CAPTCHA Usage Distribution in the Top 1 Million Sites
 - trends.builtwith.com

Vendor	Websites	%
reCaptcha	211,339	21.13
hCaptcha	5,178	0.52

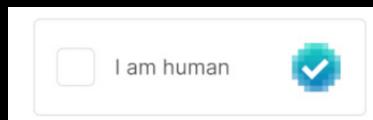
- CAPTCHA Usage Distribution based on # of websites
 - wappalyzer.com

Vendor	Websites	%
reCaptcha	4,002,000	96.71
hCaptcha	87,000	2.10
turnstile	49,300	1.19

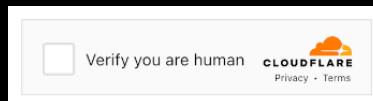
- reCaptcha (Google)
 - google.com/recaptcha/about



- hCaptcha (Intuition Machines)
 - hcaptcha.com



- Turnstile (Cloudflare)
 - cloudflare.com/products/turnstile



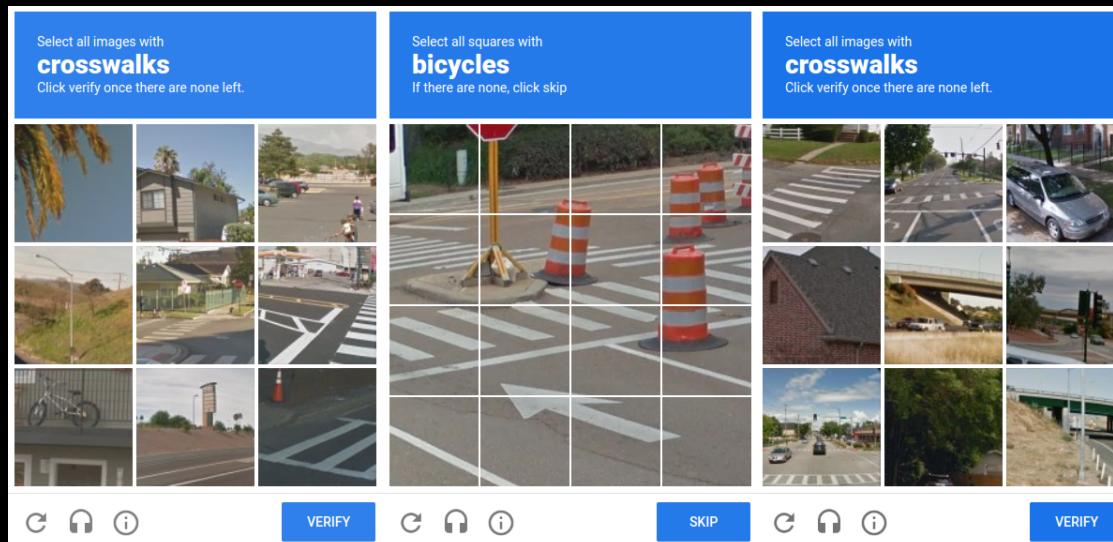
~\$ CAPTCHA vendors | reCaptcha

- The text-based version used to completely digitize the archives of The New York Times and books from Google Books
- It helped to digitize books illegible to be scanned by computers, as well as translate books to different languages
 - Completed as of 2011
 - Within the first year, 440 million words were deciphered; the equivalent of 17,600 books
 - More than 13 million articles in total have been published (from NYT; dating from 1851 to the present day)
- Since 2012, they started adding street addresses, street names, house numbers, and even traffic signs
 - Data from Google Maps



~\$ CAPTCHA vendors | reCaptcha

- Nowadays, Google uses reCaptcha to identify objects in images, like traffic lights, buses, crosswalks, fire hydrants, etc.
 - Google uses user inputs to improve its machine learning models, and specifically, its image recognition models

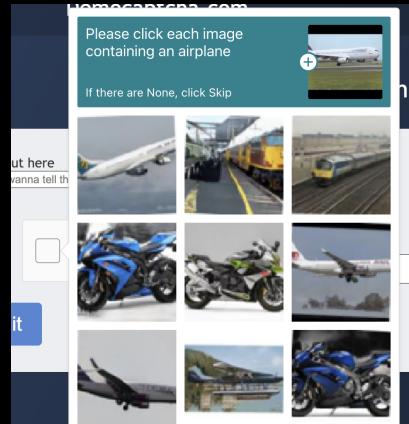
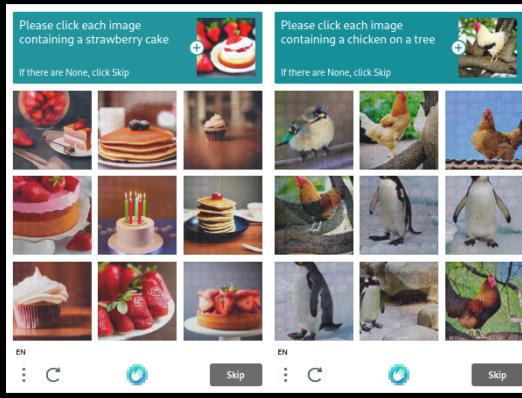


~\$ CAPTCHA vendors | reCaptcha

- reCAPTCHA v1 (released in 2007)
 - Distorted text pulled from books, newspapers, or other sources that Optical Character Recognition (OCR) had failed to recognize
- reCAPTCHA v2 (released in 2014)
 - The "I'm not a robot" checkbox was introduced
 - The images used in these challenges are often photos from Google Street View
 - Users help train machine learning (image recognition and mapping technologies)
- Invisible reCAPTCHA (released in 2017)
 - This version works in the background to determine if a user is a human or a bot without any interaction
 - If the system isn't sure, it may present an image-based challenge like in v2
- reCAPTCHA v3 (released in 2018)
 - It gives each user a score between 0.0 and 1.0, representing 20 / 52 the likelihood that they're a human

~\$ CAPTCHA vendors | hCaptcha

- hCaptcha was introduced in 2018 by Intuition Machines, Inc.
 - A company that provides AI and machine learning solutions
- hCaptcha is designed to solve problems for machine learning models
 - While Google is using reCAPTCHA to help train its own services, hCaptcha's primary goal is to sell the anonymized human-validated data to companies interested in improving their machine-learning models
- One of the key differences between hCaptcha and reCAPTCHA is in their approach to privacy and transparency



~\$ CAPTCHA vendors | Turnstile

- Introduced in 2022 by Cloudflare
 - Invisible alternative to CAPTCHA
 - A key difference is to solve terrible user experience
- It automatically chooses from a rotating suite of non-intrusive browser challenges based on telemetry and client behavior exhibited during a session.
- First, it runs a series of small non-interactive JavaScript challenges gathering more signals about the visitor/browser environment
 - Those challenges include proof-of-work, proof of space, probing for web APIs, and various other challenges
- Turnstile also includes machine learning models that detect common features of end visitors who were able to pass a challenge before.
 - The computational hardness of those initial challenges may vary by visitor, but is targeted to run fast

~\$ CAPTCHA vendors

reCAPTCHA (Google)

- Free up to 1 million assessments per month (then it stop working)
- Enterprise free up to 1m, then \$1 per 1,000 calls

hCaptcha (Intuition Machines)

- Free up to one million requests per month
- Pro \$139 per month, 100,000k evaluations per month
 - Additional evaluations are billed at \$0.99 per 1000 requests

Turnstile (Cloudflare)

- Free, but customers are limited to 1 million calls to the siteverify verification endpoint per month
- Customers who need additional requests must upgrade to Enterprise Bot Management (really expensive)

~\$ CAPTCHA solving
vendors

~\$ CAPTCHA solving vendors

- Main SaaS platforms
- 2captcha.com
 - Founded in 2014
 - Price ~\$1 - \$2.99 for 1000 reCAPTCHAs V2
 - Solving speed for reCAPTCHA V2 ~25 sec.
- anti-captcha.com
 - Founded in 2007; same as reCAPTCHA
 - Price ~\$0.95 - \$2 for 1000 reCAPTCHAs V2
 - Solving speed for reCAPTCHA V2 ~5 sec.

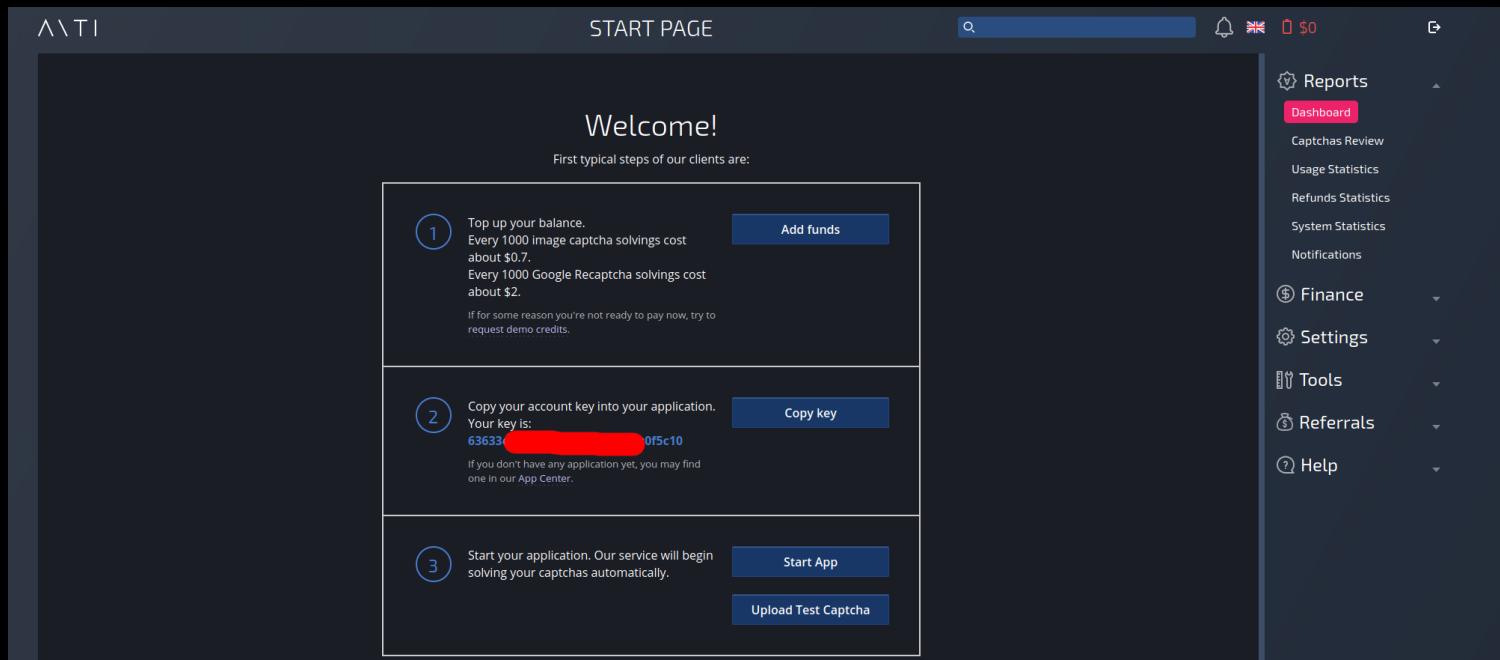
	Captcha type	Price per 1000	Solving speed
 VishVek	Normal CAPTCHA	\$0.5 - \$1	⚡ 4 sec.
 V2	reCAPTCHA V2	\$1 - \$2.99	⚡ 25 sec.
 V3	reCAPTCHA V3	\$1.45 score <= 0.3 \$2.99 score > 0.3	⚡ 7 sec.
 Enterprise	reCAPTCHA Enterprise	\$1 - \$2.99	⚡ 28 sec.
 hCaptcha	hCaptcha	\$2.99	⚡ 22 sec.
 Turnstile	Cloudflare Turnstile	\$2.99	⚡ 22 sec.
 GeeTest	GeeTest CAPTCHA	\$2.99	⚡ 14 sec.
 KeyCaptcha	KeyCaptcha	\$2.99	⚡ 12 sec.

Pay as you go Subscription

	Price per 1000	Solving Speed	Workers	Free Capacity
 Images	\$0.5 - \$0.7*	5 s	Busy: 1000 Idle: 1200	1000 / per minute
 reCAPTCHA v2	\$0.95 - \$2*	5 s	Busy: 1000 Idle: 1200	1000 / per minute
 reCAPTCHA v3	\$1 - \$2**	5 s	Busy: 1000 Idle: 1200	1000 / per minute
 reCAPTCHA Enterprise v2/v3	\$5	5 s	Busy: 1000 Idle: 1200	1000 / per minute
 hCaptcha	\$2	5 s	Busy: 1000 Idle: 1200	1000 / per minute
 GeeTest	\$1.8	5 s	Busy: 1000 Idle: 1200	1000 / per minute
 Arkose Labs	\$3	5 s	Busy: 1000 Idle: 1200	1000 / per minute
 Turnstile	\$2	5 s	Busy: 1000 Idle: 1200	1000 / per minute
 Custom Tasks	\$2	5 s	Busy: 1000 Idle: 1200	1000 / per minute

~\$ anti-captcha.com

~\$ anti-captcha.com | Welcome



The screenshot shows the 'START PAGE' of the anti-captcha.com website. The main content is a 'Welcome!' message with three numbered steps:

1. Top up your balance. Every 1000 image captcha solvings cost about \$0.7. Every 1000 Google Recaptcha solvings cost about \$2. [Add funds](#)
2. Copy your account key into your application. Your key is: **636334e0-1000-405c-8000-0f5c10**. [Copy key](#)
3. Start your application. Our service will begin solving your captchas automatically. [Start App](#) [Upload Test Captcha](#)

On the right side, there is a sidebar with the following sections:

- Reports**
 - Dashboard**
 - Captchas Review
 - Usage Statistics
 - Refunds Statistics
 - System Statistics
 - Notifications
- Finance**
- Settings**
- Tools**
- Referrals**
- Help**

~\$ anti-captcha.com | Refill balance

REFILL BALANCE

Choose Pay Done

Czech Republic

VISA

mastercard.

Apple Pay

PayPal

Bitcoin

Litecoin

Ethereum

BUSD BEP20

BNB

USDC

USDT ERC20 TRC20 BEP20

TRX

JCB

AMERICAN EXPRESS

Bank Transfer

Reports

Finance

Add Funds

Withdraw

History

Invoices

Subscriptions New

Loans

Resellers

Demo Credits

Settings

Tools

Referrals

Help

~\$ anti-captcha.com | Crypto
with 20% bonus

A\TI

REFILL BALANCE

Send 0.000188 BTC to the following address:

37rWyg[REDACTED]sXqQ

Copy address



Status: waiting for transaction

Please note

1. You need to send 0.000188BTC to refill your account with 5 USD. Current exchange rate: 1BTC = 26593.318 USD.
2. Additional promotion bonus of 0.5 USD will be applied to your balance for this payment. We add 20% bonus for payments above \$100 and 10% for payments below this

Reports

Finance

Add Funds

Withdraw

History

Invoices

Subscriptions New

Loans

Resellers

Demo Credits

Settings

Tools

Referrals

Help

~\$ anti-captcha.com | BTC 1
confirmation

ANTI

This is to confirm that we've just received enough confirmations for your Bitcoin payment and successfully added it to your balance.

Received: 0.00018799 BTC

USD equivalent: \$5

Bonus: \$0.5

Total added: \$5.5

Thank you for doing business with us!

Regards,
Anti Captcha team.

ANTI

~\$ anti-captcha.com | App center

APP CENTER

Search Search

Top Categories New

AntiCaptcha plugin (automatic captcha solver) free

A browser plugin for Chrome and Firefox, which allows you to automatically solve CAPTHchas found on a webpage. The plugin works with iMacros. Плагин для Chrome и Firefox, который автоматически решает найденные на странице капчи. Работает в связке с iMacros.

python-anticaptcha free

Python client library for solve captchas with Anticaptcha.com support. Support Recaptcha, tex, funcaptcha & custom type. Scripts and libraries

Key Collector 2300.00 RUR

Программа для раскрутки сайта позволяет быстрым и удобным способом собирать ключевые фразы для составления семантического ядра, определить их конкурентность, стоимость и эффективность, а также провести экспресс-анализ вашего сайта на соответствие его содержимого этому ядру.... Other SEO

jDownloader free

jDownloader is a free download-manager that makes downloading as easy, fast and automated as it should be. Other

eTXT Антиплагiat free

Программа для поиска плагиата в сети и оценки уникальности текстов Other SEO

OpenBullet free

OpenBullet is a webtesting suite that allows to perform requests towards a target webapp and offers a lot of tools to work with the results. This software can be used for scraping and parsing data, automated pentesting, unit testing through selenium and much more. Submitters Account creators

Reports

Finance

Settings

Tools

App Center

Developers Center

Proxy Monitor

Proxy Checker

IP Search

Referrals

Help

~\$ anti-captcha.com | Developers center

ATI

DEVELOPERS CENTER

Settings

Reports

Finance

Settings

Tools

App Center

Developers Center

Proxy Monitor

Proxy Checker

IP Search

Referrals

Help

Add application

Post a job

Post a resume

AntiGate template

LATEST JOBS LIST [VIEW ALL](#)

Description	Budget
Need To Submit Clouflare Turnstile Solved Token Publish date: 5 June views: 40	50
python solve captcha Publish date: 4 June views: 52	10
find out why anti captcha code does not work on some sites Publish date: 27 May views: 40	up to 250 time and materials
need help to solve a google captcha Publish date: 5 May views: 160	50 usd
I need to solve the captcha for Amazon's registration. Publish date: 2 May views: 68	60

RESUMES LIST [VIEW ALL](#)

Capabilities	Platforms	Costs
Automatic browser actions (development of bots) Publish date: 18 June views: 248 contact views: 127	💻	50 / hour
Bot creating Publish date: 18 June views: 8 contact views: 5	💻	Custom pricing

~\$ anti-captcha.com | Referrals

The screenshot shows the 'Referrals' section of the anti-captcha.com website. The top navigation bar includes a search icon, a bell icon, a flag icon (UK), a balance icon (\$0), and a user icon. The left sidebar has sections for Reports, Finance, Settings, Tools, and Referrals (which is currently selected and highlighted in pink). The Referrals section is expanded to show 'Links & Stats' and 'Top Referrers' (which is also highlighted in pink). The main content area displays the 'TOP20 REFERRALS' and 'TOP EARNING REFERRERS' sections. The 'TOP EARNING REFERRERS' table lists the top 10 referrers with their names and monthly earnings:

Place	Name	Montly Earnings
1	Olexandr5000	\$3378.13
2	Flauros	\$931.08
3	*****	\$732.93
4	SMARTESTASS	\$485.70
5	Tony2015	\$444.47
6	*****	\$225.56
7	*****	\$225.32
8	*****	\$128.58
9	*****	\$112.66
10	*****	\$94.61

~\$ anti-captcha.com

- Awesome documentation at anti-captcha.com/apidoc

```
#!/bin/bash
echo "[i] Creating reCaptcha V2 bypass task"

response=$(curl -s -H "Accept: application/json" \
    -H "Content-Type: application/json" \
    -X POST -d '{
    "clientKey": "anti-captcha-api-key",
    "task": {
        "type": "RecaptchaV2TaskProxyless", "websiteURL": "https://example.com/captcha.php", "websiteKey": "captcha-site-key"
    },
    "softId": 0
}' https://api.anti-captcha.com/createTask)

taskId=$(echo "$response" | jq '.taskId')

echo -e "\t[i] Waiting 5 seconds for task to complete ... \n"
sleep 5

while true; do
    echo "[i] Requesting task solution"
    result=$(curl -s -H "Accept: application/json" \
        -H "Content-Type: application/json" \
        -X POST -d '{
            "clientKey": "anti-captcha-api-key",
            "taskId": '$taskId'
        }' https://api.anti-captcha.com/getTaskResult)

    status=$(echo "$result" | jq -r '.status')

    if [ "$status" == "ready" ]; then
        gRecaptchaResponse=$(echo "$result" | jq -r '.solution.gRecaptchaResponse')
        echo -e "\n[!] gRecaptchaResponse: \n\n$gRecaptchaResponse\n"
        break
    else
        echo -e "\t[i] Wait for 3 seconds before retrying ... \n"
        sleep 3
    fi
done
```

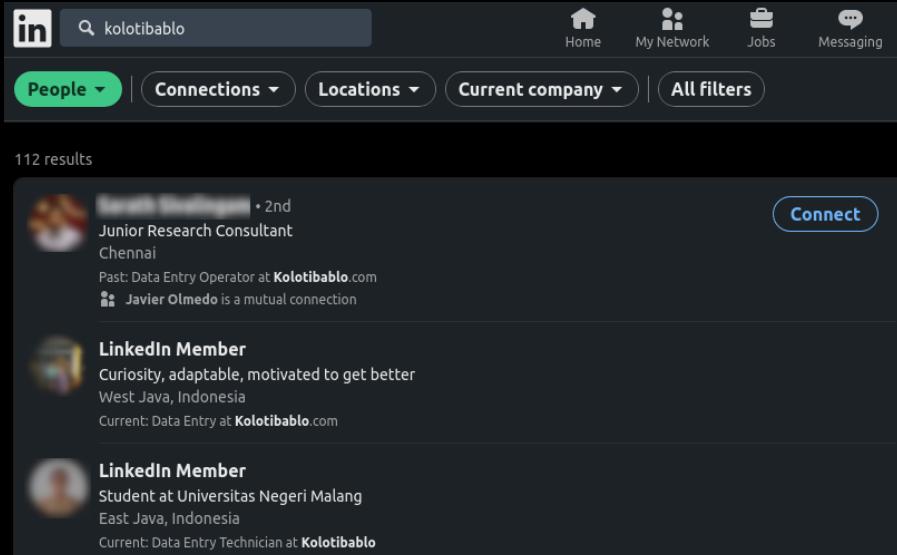
~\$ kolotibablo.com
Work for anti-captcha.com

~\$ kolotibablo.com

- Founded in 2007 (same as reCAPTCHA) | Work for anti-captcha.com
 - They used to pay 0.5 cents per correctly entered captcha (earnings ~\$3 per hour)
- Now you get \$1 per 1000 CAPTCHAs solved (earning ~\$2 per day)
 - Bonus system based on monthly volume of solves (e.g., + 15% for 50k solves)
 - Estimated earnings ~\$100 per month, working every day
- You earn RP (recaptcha points) for each successful solve
 - If you do 3+ mistakes per 1k solves, you get banned
 - You can unban yourself or a friend by spending 2k RP
- Top 3 countries (workers):
 - Venezuela
 - Indonesia
 - Vietnam
 - India
 - Bangladesh

~\$ kolotibablo.com

- You can read inspirational success stories at *kolostories.com*
- Not so good reviews at *trustpilot.com*
- Plenty of people (112) list this as their current/past job at LinkedIn
 - Data Entry Operator / Data Entry Technician / Data Encoder
 - Typing job / Typist / Typesetter



The image shows a screenshot of a LinkedIn search results page. The search bar at the top contains the text 'kolotibablo'. The navigation bar includes links for Home, My Network, Jobs, and Messaging, along with dropdown menus for People, Connections, Locations, Current company (which is selected), and All filters. Below the search bar, it says '112 results'. The results list three profiles, each with a small profile picture, the user's name, their current job title and location, and a 'Connect' button. The first profile is 'Junior Research Consultant' in 'Chennai', with a note that they 'Past: Data Entry Operator at Kolotibablo.com' and a mutual connection 'Javier Olmedo'. The second profile is a 'LinkedIn Member' from 'West Java, Indonesia' who 'Curiosity, adaptable, motivated to get better' and 'Current: Data Entry at Kolotibablo'. The third profile is another 'LinkedIn Member' from 'East Java, Indonesia' who 'Student at Universitas Negeri Malang' and 'Current: Data Entry Technician at Kolotibablo'.

~\$ kolotibablo.com | Start page

The screenshot shows the start page of the kolotibablo.com website. At the top, there is a navigation bar with a logo, a language switch (UK), a 'Start working' button, a balance of '\$0.0029', and a user icon. Below the navigation bar are five main buttons: 'work via Web', 'work via App', 'send money', 'track stats', and 'referrals'. The 'work via Web' button is highlighted with a blue background and white text. The 'work via App' button has a cloud icon. The 'send money' button has a dollar sign icon. The 'track stats' button has a line graph icon. The 'referrals' button has a person icon. The main content area is titled 'START PAGE'. It displays three task cards: 'Recaptcha Solving', 'Image Captcha Solving', and 'AntiGate Tasks'. Each card shows task details and a 'Receive tasks' button. The 'Recaptcha Solving' card has a '388 demand' badge. The 'Image Captcha Solving' card has a '578 demand' badge. The 'AntiGate Tasks' card has a '152 demand' badge. The sidebar on the right contains a navigation menu with sections: Captchas (with a 'Start Working' button), My Stats, My Errors, Top Workers, System Stats, Finance, Settings, Referrals, Tools, and Information. Each section has a dropdown arrow next to it.

START PAGE

work via Web

work via App

send money

track stats

referrals

Recaptcha Solving

Current bid: \$1.1 / 1000 | Priority: 0 / 53141

Follow easy instructions to enable Recaptcha tasks:

Condition	Status
Compatible browser	✓
Certificate Installed	✗ Installation instructions
Browser Plugin Installed and Running	✗ Installation instructions
Plugin version	n/a
IP status	All fine
Account status	All fine

Receive tasks

388 demand

Image Captcha Solving

Usual Image captcha tasks

Current bid: 0.3 / 1000

Monthly entries: 4

Monthly earnings: 0.003302

Priority: 0 / 49573

Demand: 578 demand

Receive tasks

AntiGate Tasks

Custom assignment tasks

Task description

Current bid: 1.3 / 1000

Demand: 152 demand

Minimum plugin version: 3.14

Receive tasks

£ Captchas

Start Working

My Stats

My Errors

Top Workers

System Stats

£ Finance

⚙️ Settings

💰 Referrals

🛠️ Tools

ℹ️ Information

~\$ kolotibablo.com | Your stats

YOUR STATS

Start working \$0.0029

Pending payments for image captchas:
You have to input at least 500 captchas for the last 48 hours to bypass moderation. You will receive payment for these entries only after our moderator checks them.

date	volume	\$ earned	\$ bonus
2 Jun	1	0.000420	0.0000000

All captcha types

Captchas pending moderation: \$ 0.0004, 1 captchas

date	volume	\$ earned	\$ bonus *	refunds **
21 Jun	0	0	0	-
20 Jun	0	0	0	-
19 Jun	0	0	0	-
18 Jun	0	0	0	-
17 Jun	0	0	0	-
16 Jun	0	0	0	-
15 Jun	0	0	0	-
14 Jun	0	0	0	-
13 Jun	0	0	0	-
12 Jun	0	0	0	-
11 Jun	0	0	0	-
10 Jun	0	0	0	-

⌚ Captchas

Start Working

My Stats

My Errors

Top Workers

System Stats

💵 Finance

⚙️ Settings

💰 Referrals

💡 Tools

❓ Information

~\$ kolotibablo.com | Top workers

TOP 5K WORKERS LIST

7 DAYS TOP WORKERS

You are not present in Top 5K List

position	captchas	money	Recaptchas/Images
1	63117	\$55.96	\$55.96 / \$0
2	71616	\$55.38	\$55.38 / \$0
Hong Kong	68340	\$54.2	\$54.2 / \$0
4	54255	\$53.9	\$53.9 / \$0
5	54715	\$53.62	\$53.62 / \$0
6	53832	\$53.48	\$53.48 / \$0
7	54456	\$53.39	\$53.39 / \$0
8	60370	\$53.38	\$53.38 / \$0
Hong Kong	66479	\$53.32	\$53.31 / \$0.01
10	59109	\$53.18	\$53.18 / \$0
11	53261	\$52.89	\$52.89 / \$0
12	53665	\$52.83	\$52.83 / \$0
13	51849	\$51.52	\$51.52 / \$0
14	61400	\$51.11	\$51.11 / \$0.01
Hong Kong	65778	\$51.02	\$51.01 / \$0.01
15			

Start working \$0.0029

Start Working My Stats My Errors Top Workers System Stats Finance Settings Referrals Tools Information

~\$ kolotibablo.com | Your typing errors

YOUR TYPING ERRORS

Start working \$0.0029

Your account has several errors on file!

Please type more carefully, otherwise your account will be automatically banned.

1. Your account might get banned immediately if our moderator finds a rude error among your answers.
2. Automated quality control gives every user different chances, depending on monthly typing volume.
3. We reserve the right to do an immediate ban if we see that mistype is done intentionally. Thus the best rule you can follow: be attentive, provide exact answers and you will never have any problems. (And we too with our clients).

Errors ratio: 2 errors / 4 (50%)

You cannot continue until you mark all errors as read.

Appeal points left: 1

captcha	your answer
Select all squares with: airplane. Cell numbers are 0-8. 	airplane: skipped control captcha! Correct answer: 2
	pmwcm Correct answer: PMWCM

mark as read remove 0.02 USD remove 200 RP

mark as read remove 0.02 USD remove 200 RP

new error

Start Working My Stats Top Workers System Stats

My Errors

Start Working My Stats Top Workers System Stats

Finance

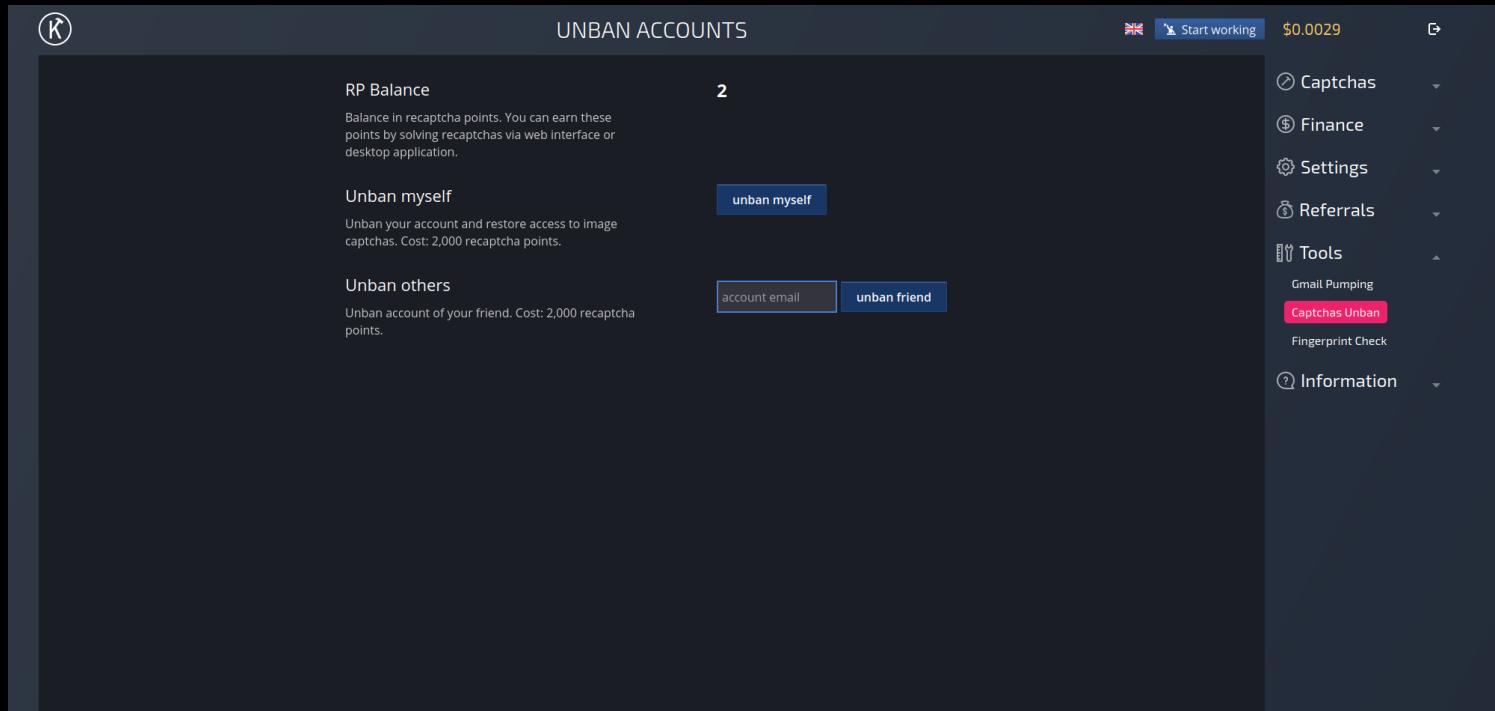
Settings

Referrals

Tools

Information

~\$ kolotibablo.com | Unban accounts



UNBAN ACCOUNTS

RP Balance 2

Balance in reCAPTCHA points. You can earn these points by solving reCAPTHAs via web interface or desktop application.

Unban myself [unban myself](#)

Unban others [account email](#) [unban friend](#)

£ Start working \$0.0029

🕒 Captchas

">\$ Finance

⚙️ Settings

🔗 Referrals

🔧 Tools

Gmail Pumping

Captcha Unban

Fingerprint Check

ℹ️ Information

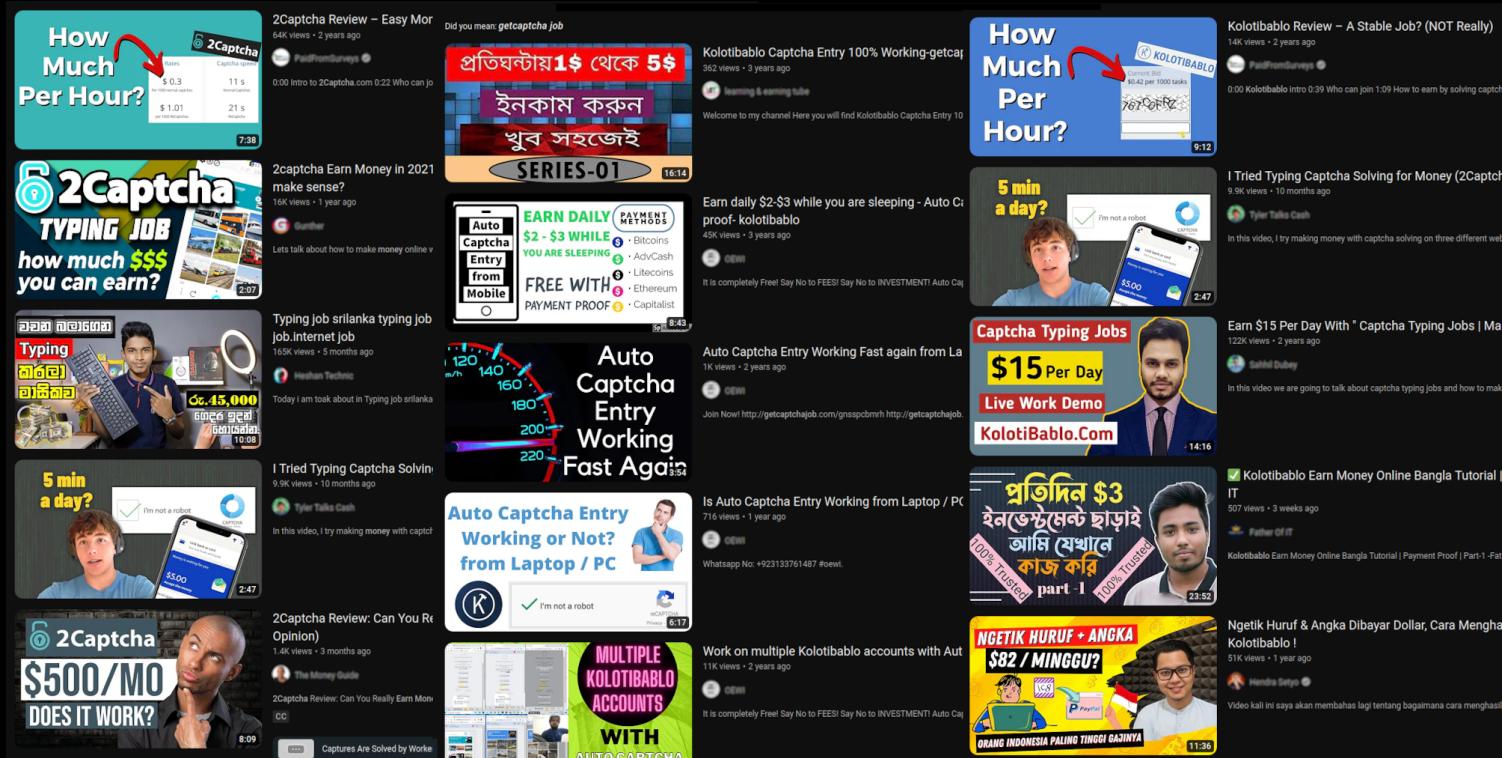
~\$ kolotibablo.com | Top referrers

The screenshot shows the kolotibablo.com dashboard with the following interface elements:

- Header:** A dark header bar with a logo icon, a language switch (UK), a "Start working" button, a balance of "\$0.0029", and a user profile icon.
- Left Sidebar:** A sidebar with a dark background and light text, containing links to "Captcha", "Finance", "Settings", "Referrals" (which is expanded to show "Links & Stats" and "Top Referrers" which is highlighted with a pink box), "Tools", and "Information".
- Top Referrers Section:** A central box titled "TOP100 REFERRERS" with a message: "Oops, it seems that you are not taking part in this top list :(Generate a referral link and get paid by referring other workers!" and a "Start earning money now" button.
- Table:** A table titled "TOP MONTHLY EARNING REFERRERS" showing the following data:

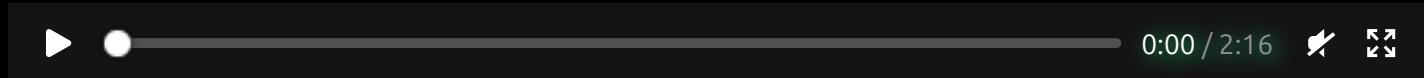
Place	Name	Monthly Earnings
1	*****	\$288.58
2	*****	\$266.34
3	We Can Do It	\$255.18
4	We Can Do It	\$243.98
5	We Can Do It	\$238.25
6	*****	\$226.98
7	*****	\$176.25
8	*****	\$171.60
9	*****	\$156.85
10	*****	\$144.55
11	Aminur/josore Magir Chele	\$137.38
12	*****	\$124.92
13	*****	\$110.70

~\$ kolotibablo.com | Top
referrers

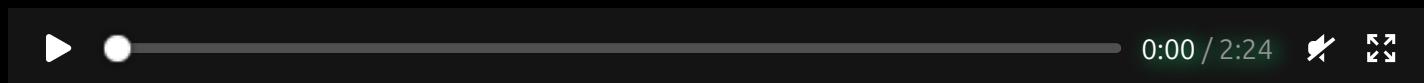


~\$ DEMO TIME

~\$ Solving captchas for profit



~\$ Solving captchas for fun



~\$ And what about artificial intelligence?

- Can ChatGPT solve CAPTCHAs for you?

~\$ And what about artificial intelligence?

- Can ChatGPT solve CAPTCHAs for you?
 - NO, but it can do this:

~\$ And what about artificial intelligence?

- Can ChatGPT solve CAPTCHAs for you?
 - NO, but it can do this:

V Create a Burp Suite extension in Python, which will generate custom Intruder payloads using [IIIntruderPayloadGenerator API](#).
<https://portswigger.net/burp/extender/api/burp/iiintruderpayloadgenerator.html>

In Burp's Intruder, I will use the Pitchfork attack type with custom wordlists. One of the payload sets will invoke our Burp extension, and it will do the following:

- 1) Sent a request to external API to: `createTask`
- 2) Sent a request to external API to: `getTaskResult`
- 3) Use JSON response value of `['solution'][gRecaptchaResponse']` to get a payload for Intruder

Remember to use native `HttpURLConnection` as we are using the Jython environment. The external API documentation is here:
<https://anti-captcha.com/apidoc/methods/createTask>
<https://anti-captcha.com/apidoc/methods/getTaskResult>

Example of the requests in bash:

```
...
#!/bin/bash

echo -e "\n[ OWASP reCaptcha bypass PoC ]\n"
```

T Sure, I can help you with creating a Burp Suite extension in Python using Jython. The following is an example of how you could use the `IIIntruderPayloadGenerator API` in the way you've described.

Please be aware that you will need to replace `'api-key'` and `'site-key'` with your actual keys.

```
python
from burp import IBurpExtender
from burp import IIIntruderPayloadGenerator
from burp import IIIntruderPayloadGeneratorFactory

from java.net import URL, HttpURLConnection
from java.io import BufferedReader, InputStreamReader, OutputStreamWriter
from org.json import JSONObject

import time

class BurpExtender(IBurpExtender, IIIntruderPayloadGeneratorFactory):
    def registerExtenderCallbacks(self, callbacks):
```

~\$ Solving captchas for fun



THANK YOU !

Any questions ?

github.com/vavkamil/owasp-captchas