

# Espiando redes de microblogging. El caso de la red Mastodon



# Disclaimer





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### Doctor de Telecomunicaciones (UPM) & Postdoc (UC3M)

Books (3), artículos científico-técnicos (+60), speaker (+60), security tools, premios...

Empresas: UPM, UC3M, Telefónica, IOActive, BBVA-i4s...

Certificados profesionales: CEH, CHFI, CISA, CES, OSCP, CCSK

Some conferences: STIC CCN-CERT, DeepSec, HackInTheBox, Virus Bulletin, RootedCon, 8.8, No cON Name, GSICKMinds, Cybercamp, Secadmin, JNIC, Ciberseg...

Co-editor **@criptored** (Red Temática de Criptografía y Seguridad de la información) □ +16 años de vida

Background: **Investigador (academia) | Industria | Underground**

Profesor (docente – Máster Seguridad): **UEM, UNIR, UC3M, UPM, UJAEN ...**

**Perfil Técnico:** Seguridad defensiva/ofensiva (pentesting), protección de información (criptografía/esteganografía - comunicaciones seguras) y Data Science (machine learning y NLP)



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Ingeniero en Telecomunicaciones por la universidad de Zaragoza (UNIZAR) y Máster en Ciberseguridad por la universidad Carlos III de Madrid (UC3M).

Analista de seguridad Informática. Amante de CTFs, programación e IA.

Ha invertido los últimos años de su carrera profesional en multinacionales españolas, como Telefónica o BBVA (i4s), en investigación e innovación de nuevos procedimientos de detección de fraude, thread intelligence y seguridad defensiva.

Actualmente trabaja en el sector bancario aplicando tecnologías de Natural Language Processing, Deep Learning y graph databases. Ha sido premiado con diferentes reconocimientos por su trabajo en estas disciplinas: Accesit y Finalista – III / IV Concurso de Jóvenes Profesionales ISACA, ganador del Sinfonier Contest 2015 (Telefónica) o publicación en la revista SIC. Conferencias: RootedCon, Mariapitadefcon, JNIC, Secrypt...



Def: Social media is the collective of online communications channels dedicated to community-based input, interaction, content-sharing and collaboration.



teamliquid tech support  
**CENSORED**  
for your protection

Business?



PRIVACY





# CENSORSHIP



WORLD

## CHINA EXTENDS INTERNET CRACKDOWN WITH BAN ON CELEBRITY GOSSIP

BY ELEANOR ROSS ON 6/13/17 AT 5:46 AM

Saudia Arabia leads Arab regimes in internet censorship

RONI JACOBSON

BACKCHANNEL 04.12.17 12:00 AM

## INTERNET CENSORSHIP IS ADVANCING UNDER TRUMP

The screenshot shows a web page from [onlinecensorship.org](https://onlinecensorship.org/en). At the top, there's a navigation bar with links for 'ABOUT', 'RESOURCES', 'SUBMIT REPORT', and language options ('EN'). Below the navigation, a large text area asks 'Has your photo been taken down?'. A 'SUBMIT YOUR REPORT' button is located to the right. In the center, there's a dark blue box with the question 'WHAT IS ONLINE CENSORSHIP?' and a paragraph explaining the organization's mission to encourage transparency and accountability from social media companies. Below this, there are several examples of censored content:

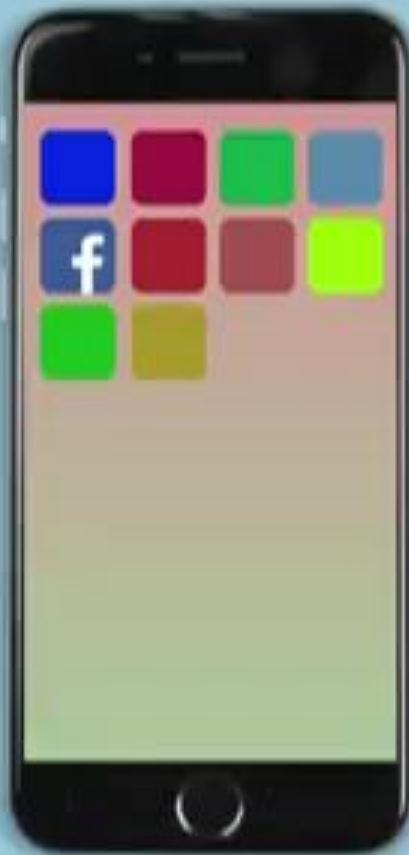
- A thumbnail for a YouTube video titled '15 years in prison' with the caption 'Profile banned'.
- A thumbnail for a Facebook post by 'AKA Happy' with the caption 'AKA Happy'.
- A thumbnail for a Facebook post from Ethiopia with the caption '15 Muslim videos sparked anger in some countries, so evidently blocked it in Egypt and Libya.'
- A cartoon illustration of a car with a sign that reads 'LK ABOUT RACISM'.

At the bottom, there are links for 'READ THE STORY' and 'STORY'.

CENSORED



- Emiratos Árabes Unidos
- Pakistán
- Malasia
- Siria
- Uzbekistán
- Bangladesh
- Vietnam
- Irán
- Libia
- China
- Túnez
- Turquía
- Turkmenistán



# Social Network “and/or” Business?



The LinkedIn Business Solutions Market page features a dark header with the LinkedIn logo and "Business Solutions". Below it, there's a "Market" section with a sub-headline: "Deliver the right content to the right people and boost quality leads. Done and done." It includes sections for "Lead Accelerator", "Sponsored Updates", "Sponsored InMail", and "Display Ads", each with a brief description and a "Check out" link.

The Facebook login page has fields for "Email or Phone", "Password", and "Log In". There are also links for "Keep me logged in", "Forgot your password?", and "Sign Up".

The "Advertise on Facebook" page highlights "Over 1 billion people. We'll help you reach the right ones." It shows three steps: "Step 1: Build your Facebook Page", "Step 2: Connect with people", and "Step 3: Audience". It also features a "Twitter Ads" section with a "Sign up for Twitter Ads" button and a "Let's go!" button.

Social Networks

**Twitter's non-chronological timeline is now opt-out**

The "Twitter Ads" page shows a blue-themed interface with a computer monitor displaying a Twitter feed and a smartphone. It includes sections for "Promoted Accounts", "Promoted Tweets", "Analytics", "Pricing", and "Promoted Trends". It also features a "Promoted Accounts" section with a yellow person icon and a "Promoted Tweets" section with a yellow speech bubble icon.

The FDVT page has a dark blue header with the text "FDVT" and a star icon. Below it is a sub-headline: "Data Valuation Tool for Facebook™ Users" and the question "Would you like to know the money you are generating for Facebook™?". At the bottom, there's a link "MAS VALIOSA LA INFORMACION EN JAPON QUE AQUI".

**Estos españoles han descubierto todo lo que Facebook se embolsa a tu costa**

Una extensión para el navegador cuenta la suma que la red social ingresa cada vez que ves un anuncio o haces clic en la publicidad

[http://www.elconfidencial.com/tecnologia/2016-11-02/facebook-data-valuation-tool-ingresos-publicidad\\_1282290/](http://www.elconfidencial.com/tecnologia/2016-11-02/facebook-data-valuation-tool-ingresos-publicidad_1282290/)

A screenshot of a web browser showing the FDVT extension. The sidebar displays "TOTAL VALUE GENERATED FOR FACEBOOK \$ 11.356" and a breakdown of session ads. The main content area shows a Facebook post by "C.Ronaldo" and a summary of generated value for other pages like "Real Madrid vs Villarreal" and "Beautiful Mind". The bottom right shows a "Share your results" button with icons for Facebook and Twitter.

# Why?

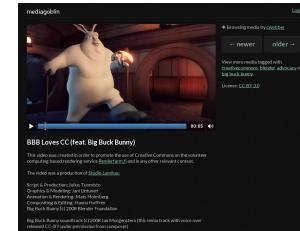
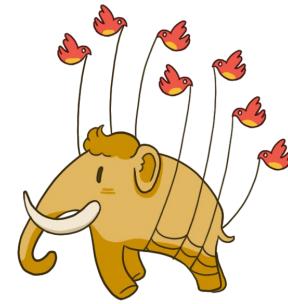


Joshua: A strange game. The only winning move is not to play.



Privacidad en Facebook	Ver videoutorial
Privacidad en Twitter	Ver videoutorial
Privacidad en Instagram	Ver videoutorial
Privacidad en Youtube	Ver videoutorial
Privacidad en Whatsapp	Ver videoutorial
Privacidad en Snapchat	Ver videoutorial

<https://www.osi.es/es/guia-de-privacidad-y-seguridad-en-internet>





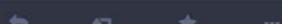
Julie\_Le\_Goic  
@Julie\_Le\_Goic

Total soutien aux Catalans qui voient leur vote et leurs corps piétinés par la police espagnole !  
#Zeugma  
#Votarem  
[twitter.com/BernatSaumell/stat...](https://twitter.com/BernatSaumell/status/8980310311000000)

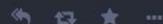


Bernat Saumell on Twitter  
#policianacional #1octubre #catalunya  
#Barcelona  
Twitter

01 oct. 2017 12:17 · Web · 12 · 9 · 8



Astringues @astringues... anteayer  
@Julie\_Le\_Goic Ça rappelle les images des manifestations #loit travail 😢



taz (inoffiziell)  
@taz@squeet.me

Nach dem Referendum in Katalonien: Zehntausende streiken gegen Madrid  
[www.taz.de/Nach-dem-Referendum...](http://www.taz.de/Nach-dem-Referendum...) #Barcelona #Katalonien #Unabhängigkeit #Europa #Politik



Nach dem Referendum in Katalonien: Ze...  
Die Polizeigewalt vom Sonntag wollen die Katalanen  
[www.taz.de](http://www.taz.de)



Paul Free (14 A, europe)

@paulfree14

streets are full in #barcelona for the #generalstrike #catalonia  
[mastodon.social/media/igVpomaZ...](https://mastodon.social/media/igVpomaZ...)



03 oct. 2017 12:08 · SubwayTooter · 12 · 20 · 15



Anti\_Moane. K-roll-In 🐶

@sb\_51\_@mastodon.xyz

#1Octubre #Catalunya #Votarem  
On croiraît du déjà vu de ce côté des pyrénées

#indyref #CatalanReferendum  
#Repression #SpanishFascism  
#Democracy

[mobile.twitter.com/EnricSabria...](https://mobile.twitter.com/EnricSabria...)

[t.co/aeYWbTuL3I](https://t.co/aeYWbTuL3I)

Twitter

[mobile.twitter.com](https://mobile.twitter.com)

01 oct. 2017 14:16 · 12 · 0 · 0





**AG Europa**

@ag\_europa@pirati.ca

⚠️ @Pirates de Catalunya  
(partit\_pirata@twitter.com): Avui la democràcia i els drets humans bàsics com el de participació política estan en perill. No ho permetrem! #decidimhojunts #votarem

20 sept. 2017 9:57 · 0 · ★ 0



 **Rafa Poverello** @rafapov... anteayer  
Vamos, vamos :( FOTOS | Cargas policiales para impedir que se vote en el referéndum del 1-O  
<https://quitter.es/url/1195782>



 **Colegota** @colegota@qui... anteayer  
@rafapoverello democracias en las que los antidisturbios impiden votar. #WTF

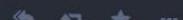


¿Qué será lo siguiente?

Perdón, quería decir "lo anterior".



 **Rafa Poverello** @rafapov... anteayer  
@colegota Es una vergüenza, algo terrible. No es cuestión de legalidad, de si se tenían las debidas garantías constitucionales, de quién se ha equivocado más... Cualquier persona con dos dedos de frente que vea estas fotos, aquí o en Pekín, sabe que algo no funciona. La ley es la ley, y para quienes las hacen.



 **Orfeo** @kersan@quitter.es anteayer  
@rafapoverello @colegota  
@chemaalonso El neofranquismo enseña sus dientes y muerde con saña... además de avivar el odio y sus consecuencias.

No pensé volver a ver situaciones como esta. Los videos son terribles.

Y se siguen llenando la boca con: "democracia" bien decididos a vaciar de contenido el concepto.



**Chema Alonso**

@chemaalonso

soft libre, Debian, GNU/linux, medios libres, periodismo social , anarquismo, igualdad animal...

QUEETS

1680

SIGUIENDO

519

SEGUIDORES

513

GRUPOS

13



# Agenda

- Definition: Microblogging social network
- Mastodon network
  - Mastodon instances (Public & Private)
  - Toots (Feed Local vs Feed Federated) & API
  - Security Issues
    - Spy network (users, toots, text-mining, relations & following “friends”)
    - Massive user creation (transversal user – N Instances) & Impersonation
    - Massive phishing & covert channels
    - Massive User creation (in each instance) – SPAM/DoS
- Conclusions & Countermeasures

# Microblogging



tumblr.



## Now Twitter Is Losing Monthly Users in the U.S.

Published on July 27, 2017.

campaign<sup>us</sup>

TRENDING: 5 EXECUTIONS BRAND SUPERFAN

Tumblr's down, but not out

by Todd Wasserman  
February 22, 2016

## The Intersect What the Internet loses when Vine shuts down



- Less time spent developing content
- Less time spent consuming individual pieces of content
- The opportunity for more frequent posts
- An easier way to share urgent or time-sensitive information



Mastodon is a free, open-source social network server. A decentralized solution to commercial platforms, it avoids the risks of a single company monopolizing your communication. Anyone can run Mastodon and participate in the social network seamlessly.

Created by Eugen Rochko in 2016

New Tweet

Co-workers list @EricaAmerica

Julio Carpio @julio 1hr 24 tons of oranges is about 154,838 lbs 708 oranges assuming 0.31 lbs per orange

James Buckhouse @jude... 3s It weird that I want to analyze & report on these screener answers?

Celeste Ridlen @celestesusa 1m Details

Brier Avil @BrierAvil 2m pic.twitter.com/l1h7zleRJ

Sara Muskopf @sm Current status: witnessing NFL history. pic.twitter.com/ITVShuDOIQ

→ Digital Gypsy@tomsano 34m When the @Giants have a bye week, I just want to go sleep for 7 days. I don't want to beat up on the Raiders next Sunday! #NFL #NFLGameDay

Andrew Sweet @AndrewSweet 50m Two monster college basketball games tonight. Michigan State takes down Kentucky and Kansas beats Duke. Double upset city

TJ Taylor Adeshola @TJ.Tay... 2h Jabari Parker is out here cooking! Sheesh. #ChampionsClassic #Duke #MichiganState

Alex Grant @AG 46m Since Adrian Peterson carries 3 defenders into the endzone. Because he's a machine on.nfl.com/1lFAQ2y" Even w/loss. Still sick

Lewis Wiltshire @LewisWiltshire 2h I'm enjoying this Bucs lead over Seattle almost as much as an actual 49ers victory. #NFL

Ted Wang @twang 2h That Parker dunk looked early like Grant Hill's dunk against Kansas in '91

Collapse

Lists

Custom timelines

Settings

TweetDeck



"NFL" @EricaAmerica 18m

Champions Classic cust... @EricaAmerica 1hr

Richard Alfonso @rafal 11m Can't wait for Duke vs. Kansas game w/ top 2 freshmen - Jabari Parker & Andrew Wiggins. Hope @VirginAmerica comes thru w/ in-flight #esp Details

Andrew Sweet @AndrewSweet 50m Two monster college basketball games tonight. Michigan State takes down Kentucky and Kansas beats Duke. Double upset city

TJ Taylor Adeshola @TJ.Tay... 2h

Alex Grant @AG 46m

Lewis Wiltshire @LewisWiltshire 2h



Scheduled All accounts

Scheduled for: 1:06pm - 5 Dec 13

You can schedule Tweets in TweetDeck. Just type the Tweet and choose a time and date to send.

Scheduled for: 1:07pm - 6 Dec 13

When you schedule Tweets, they populate in a "Scheduled" column.

Scheduled for: 1:07pm - 6 Dec 13

You can edit or delete Tweets at any time before they post. #protip

Home

Notifications

Getting started

Local timeline

Federated timeline

Favourites

Muted users

Blocked users

Extended information

Preferences

Logout

Mastodon is open source software. You can contribute or report issues on GitHub at <https://github.com/mastodon/mastodon>. Various APIs are available.

Rueyhe @Rueyhe 10 hours ago There a bunch of angry people will descend to correct your grammar.

jorge @jorge 10 hours ago

Crom, Kobold King @Crom\_King 10 hours ago Kinda tempts me to try emacs again. I've been meaning to do all the work gitter has been doing with the emacs mastodon client...

Erich boosted your status

beatrix\_birr @beax... 10 minutes ago \*sniffles\*

beatrix\_birr @beax... 13 minutes ago

beatrix\_birr @beax... 14 minutes ago

Izumonimizu followed you

Izumonimizu @Izumonimizu

Maia favoured your status

Eugen @Eugen 2 hours ago

beatrix\_birr @beax... 14 minutes ago

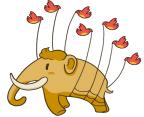
beatrix\_birr @beax... 14 minutes ago

Eugen @Eugen 2 hours ago

That's an elephant friend artwork by @dopatwo. If this was on a shirt, would that look nice? ☺

Eugen @Eugen 2 hours ago

That Parker dunk looked early like Grant Hill's dunk against Kansas in '91



@awildpotatoappears  
Editar perfil<https://animatedon.tk/media/S-nw93NjEcc35JR40t0>

476

TOOTE...

名古屋市天気予報Bot ... anteayer  
こんばんは！明日(2017-08-21)の名古屋の天気  
【曇のち晴】  
最低気温: 25°C  
最高気温: 33°C

#天気予報 #名古屋市 #Bot

# Cómo Mastodon, el último clon de Twitter, ha triunfado en Japón gracias al lolicon

The timeline shows several posts from users with profile pictures of lolicon girls:

- 名古屋市天気予報Bot ... anteayer こんばんは！
- 明日(2017-08-21)の名古屋の天気  
【曇のち晴】  
最低気温: 25°C  
最高気温: 33°C
- #天気予報 #名古屋市 #Bot
- きりたん[募集中] ... hace 41 minutos  
おいも戦士だー！生きて食ったなー！
- きりたん[募集中] ... hace 42 minutos  
流れ弾というより、直撃弾かなー？
- きりたん[募集中] ... hace 19 minutos  
やまだ！生きて帰ったなー！
- きりたん[募集中] ... hace 20 minutos  
ともとも！生きて帰ったなー！
- きりたん[募集中] ... hace 20 minutos  
【募集】9/2すしざんまいオフやるよー！

Contenido sensible

La [razón de esto](#) parece ser que **los fans del lolicon se han convertido en refugiados dentro de Mastodon**. Y aquí haremos otra pausa para explicar qué es el lolicon.

**Aunque en occidente el lolicon podría ser considerado como pornografía infantil**, en Japón es completamente legal y aceptable. "Lolicon" es una palabra combinada que resulta de acortar la frase "Lolita complex" (complejo de Lolita), y se usa tanto para describir la atracción sexual de un individuo hacia niñas, como para etiquetar un género de ilustración.

<https://www.genbeta.com/a-fondo/como-mastodon-el-ultimo-clon-de-twitter-ha-triunfado-en-japon-gracias-al-lolicon>

Mastodon

Find your friends  
Login via Twitter and Mastodon to get started

12,713 accounts Connect Twitter

10,392 accounts Connect Mastodon

This website uses a database of Twitter users and Mastodon users who signed in here to match them together across multiple Mastodon instances. Are your friends or followers among them?

This website is run by @Gargon@mastodon.social / @Gargon. Source code



The screenshot shows the Mastodon web interface. On the left is a sidebar with a user profile for @Gargon, a search bar, and a text input field "What is on your mind?". Below these are buttons for camera, video, and text, followed by "500 TOOT!". The main area displays a timeline of posts from various users, each with a timestamp, content, and interaction icons. A central sidebar contains links for "ticket followed you", "dasanc\_ followed you", "dasanc\_ @dasanc\_@mastodon.land", "Erich boosted your status", "Blocked users", and "Logout". The "Extended Information" section at the bottom right provides details about Mastodon's open source nature and GitHub repository.

<https://github.com/tootsuite/mastodon>

## Technologies



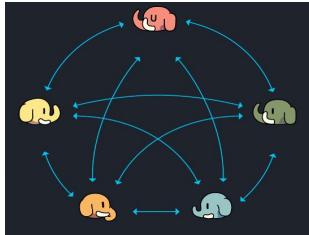
**Activity Streams** is an open format specification for activity stream protocols. Implementors of the activity Activity Streams draft include →



**Salmon protocol** aims to define a standard protocol for comments and annotations to swim upstream to original update sources -- and spawn more commentary in a virtuous cycle. It's open, decentralized, abuse resistant, and user centric.

## Features

- Fully interoperable with GNU social and any OStatus platform
- Real-time timeline updates
- Media attachments like images and WebM
- OAuth2 and a straightforward REST API
- Background processing for long-running tasks
- Deployable via Docker

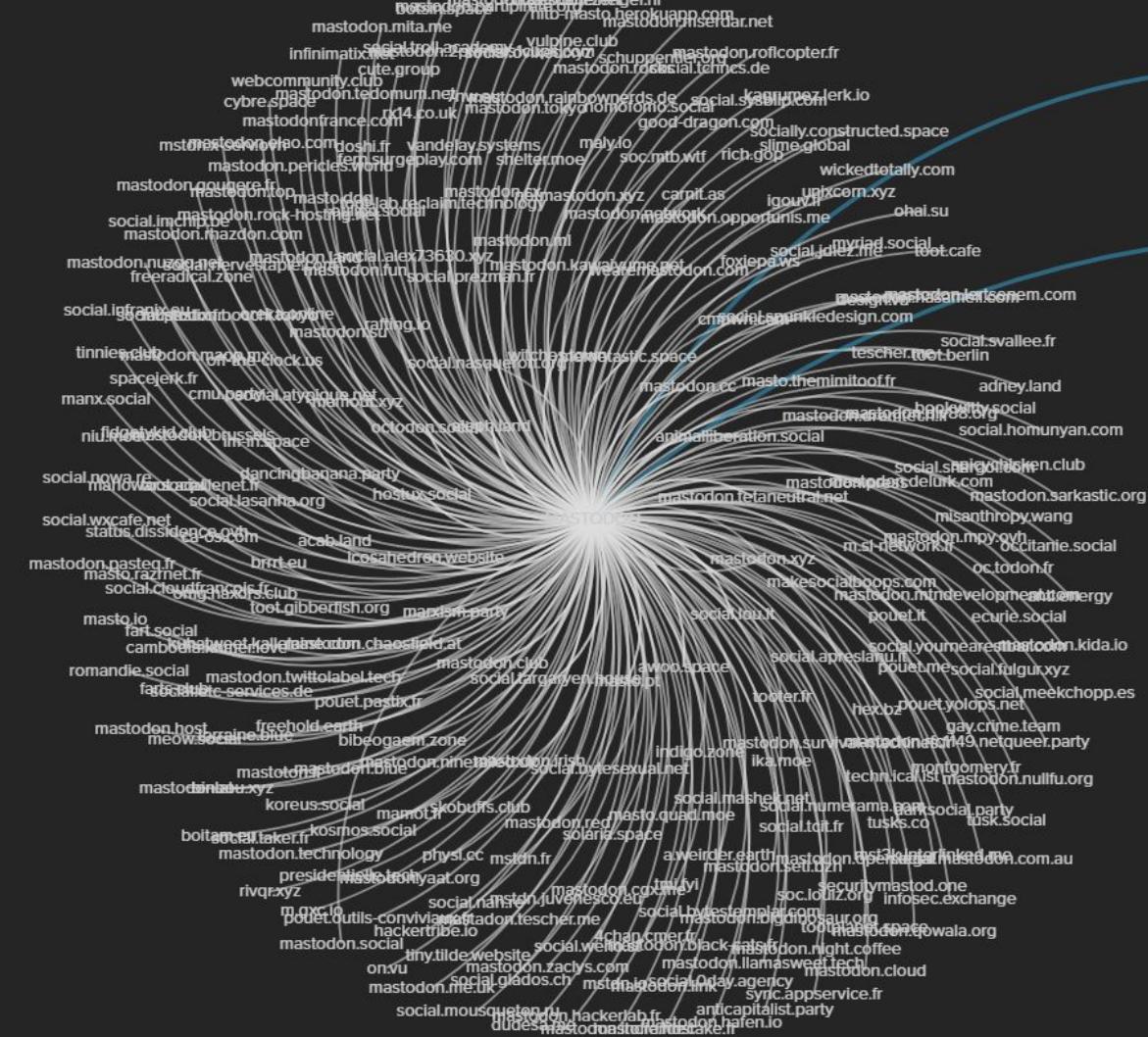


**WebFinger** is a protocol specified by the Internet Engineering Task Force IETF that allows for discovery of information about people and things identified by a URI.



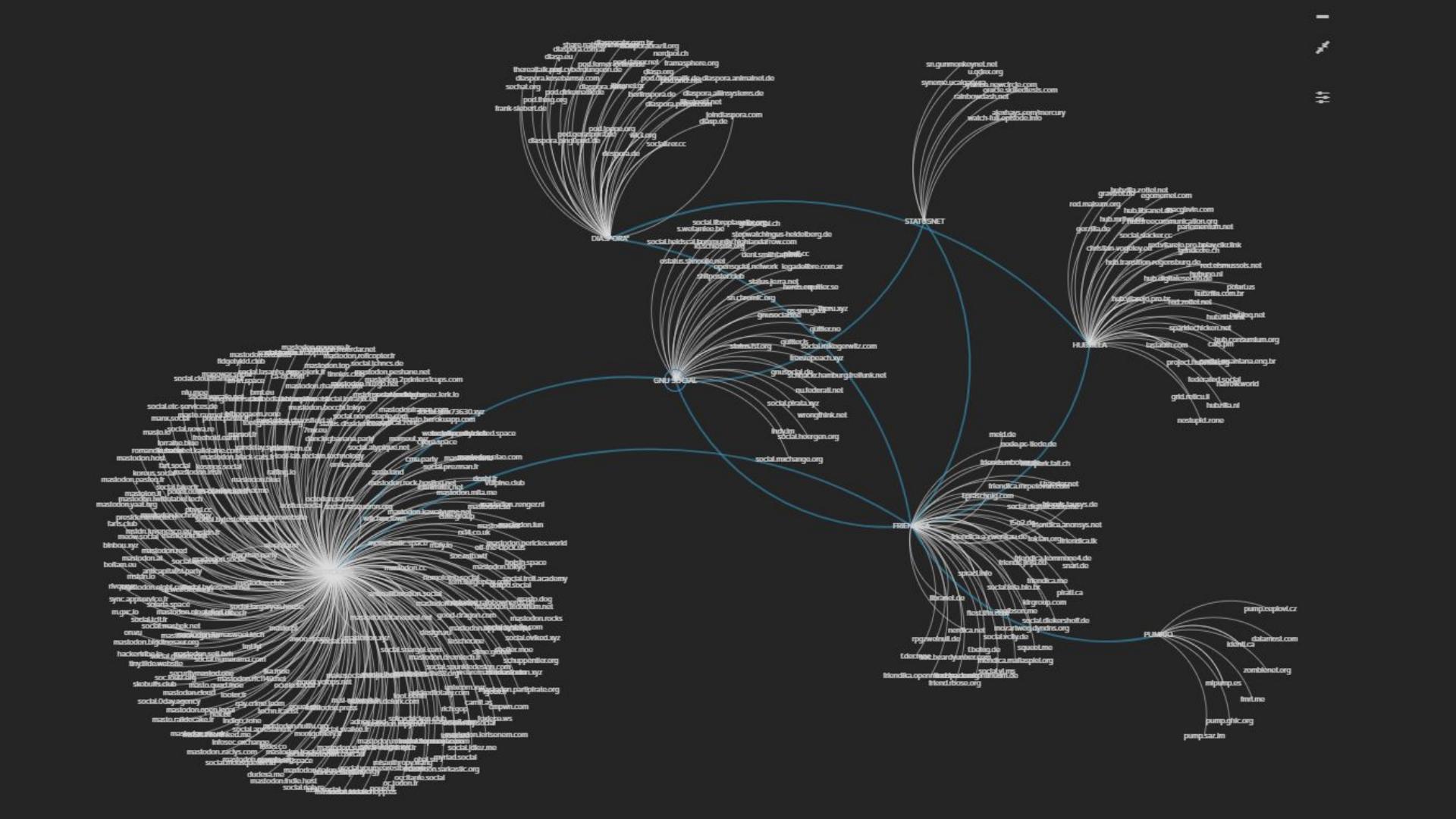
**WebSub** (formerly **PubSubHubbub**) is an open protocol for distributed publish/subscribe communication on the Internet.

# Federaciones



Mastodon instances		Wizard	List	Admin space	API	▼
T1	Instance	T1	Users T1	Statuses T1	Connectivity	
UP	pawoo.net	212807	6121194	2771		
UP	mstdn.jp	146211	14161581	2895		
UP	mastodon.social	83995	3146836	2861		
UP	friends.nico	52259	5285737	2357		
UP	mastodon.cloud	38967	1562580	2465		
UP	mastodon.xyz	11607	318989	2007		
UP	social.tchncs.de	7545	94126	1723		
UP	mamot.fr	7491	497116	1673		
UP	octodon.social	7233	173929	1914		
UP	music.pawoo.net	6014	160858	833		







# Instances

<https://dashboards.mnm.social/dashboard/db/network-drilldown>

Mastodon in the world



Mastodon instances



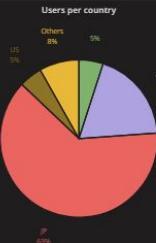
Mastodon users



Mastodon statuses



Mastodon connections





tootsuite / documentation

Code Issues 12 Pull requests 16 Projects 0 Insights ▾

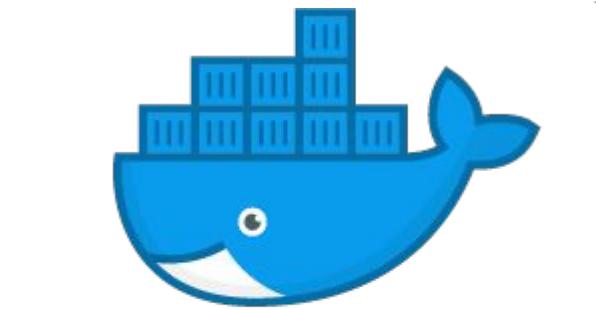
Branch: master documentation / Running-Mastodon /

Create new file Find file History

matyapiro31 committed with Gargron Add emoji files for nginx cache rules. (#360) ... Latest commit fa49976 2 days ago

..

Administration-guide.md	Add munin plugins repositories	3 months ago
Alternatives.md	Apache - Updating paths for 1.5.0rc1 (#344)	8 days ago
Customizing.md	Fix customization docs	7 days ago
Development-guide.md	Fix #325	7 days ago
Docker-Guide.md	remove bit about cronjobs (#333)	28 days ago
Heroku-guide.md	Fix bad quote char in IAM policy (#108)	3 months ago
List-of-Rake-tasks.md	Update list of rake tasks (#347)	7 days ago
Maintenance-Tasks.md	Update Maintenance-Tasks.md	7 days ago
Nanobox-Guide.md	Document Nanobox Usage	3 months ago
PgBouncer-guide.md	fix section "Configuring userlist.txt" of PgBouncer-guide.md	3 months ago
Production-guide.md	Add emoji files for nginx cache rules. (#360)	2 days ago
Resources-needed.md	New server	a month ago
Scalingo-guide.md	scalingo guide: major improvements	3 months ago
Serving_a_different_domain.md	Create Serving_a_different_domain.md	2 months ago
Tuning.md	Merge pull request #239 from jeroenpraat/patch-2	2 months ago
Vagrant-guide.md	Explicitly use --provider option for vagrant up	2 months ago



docker



<https://github.com/tootsuite/documentation/blob/master/Running-Mastodon/Docker-Guide.md>

# create a Mastodon instance

No more hair pulling  
pre installed and updated for you.

[GET STARTED NOW](#)





# Administration panel

- [Administration](#)
- [Reports](#)
- [Accounts](#)
- [Known Instances](#)
- [PubSubHubHub](#)
- [Domain Blocks](#)
- [Sidekiq](#)
- [PgHero](#)
- [Site Settings](#)

## Site Settings

Success!

Setting	
Contact information	John Smith
E-mail	John@smith
Site title	Secure Instance
Site description Displayed as a paragraph on the frontpage and used as a meta tag. You can use HTML tags, in particular <a> and <em>.	Esta es la descripción de la instancia, donde podemos poner nuestras intenciones, lo bonitos que somos y lo bien que se está.
Extended site description Displayed on extended information page You can use HTML tags	Aquí tenemos otra parte para hablar sobre lo que NO se permite, todo no iba a ser bueno.
Open registration	Enabled ▾
Closed registration message Displayed on frontpage when registrations are	

pepe

Username	pepe
Domain	
Display name	
E-mail	e704815@mvrht.net
Most recent IP	213.27.233.114
Most recent activity	Jun 09, 2017, 12:16
Follows	0
Followers	0
Statuses	0
Media attachments	0 (0 Bytes)
Reports created by this account	<a href="#">0 reports</a>
Reports made about this account	<a href="#">0 reports</a>

[SILENCE](#) [UNDO SUSPENSION](#) [RESET PASSWORD](#)

## Accounts

LOCATION	MODERATION	ORDER
<a href="#">ALL</a>	<a href="#">LOCAL</a> <a href="#">REMOTE</a>	<a href="#">ALL</a> <a href="#">SILENCED</a> <a href="#">SUSPENDED</a>
		<a href="#">ALPHABETIC</a> <a href="#">MOST RECENT</a>
Username		
Display name		
E-mail		
IP		

[SEARCH](#) [RESET](#)

Username	Domain	Confirmed	Actions
pepe		✓	<input type="radio"/> Web <input checked="" type="radio"/> Public <a href="#">Edit</a>
username		✓	<input type="radio"/> Web <input checked="" type="radio"/> Public <a href="#">Edit</a>



# Public instances 1425

Mastodon instances Wizard List Admin space

LANGUAGES

ALLOWED CONTENT

PROHIBITED CONTENT

MAX USERS

**SEARCH**  
Advanced mode

<a href="#">mastodon.savikin.me</a>	Generalistic	2 users • 4 statuses
<a href="#">social.lkw.tf</a>	Generalistic	1 users • 138 statuses
<a href="#">darksocial.party</a>	Generalistic	213 users • 2876 statuses
<a href="#">gunmastodon.com</a>	Generalistic	161 users • 1984 statuses
<a href="#">mastodon.e217.net</a>	Generalistic	8 users • 2597 statuses
<a href="#">sys.kawi.fr</a>	Generalistic	2 users • 95 statuses
<a href="#">social.vincentux.fr</a>	Generalistic	1 users • 469 statuses
<a href="#">mstdn-babymetal.com</a>	BABYMETAL	97 users • 291 statuses
BABYMETALファンのためのマストドン		
<a href="#">amicale.net</a>	Generalistic	28 users • 692 statuses
<a href="#">social.atypique.net</a>	Generalistic	2 users • 3170 statuses

<https://instances.social/list>

Server	Stability	Population	Theme
<a href="#">mastodon.xyz</a>	● Stable	● New	General
<a href="#">awoo.space</a>	● Stable	● New	General
<a href="#">social.tchncs.de</a>	● Stable	● New	General
<a href="#">animalliberation.social</a>	● Stable	● New	General
<a href="#">socially.constructed....</a>	● Stable	● Full	General
<a href="#">icosahedron.website</a>	● Stable	● New	General
<a href="#">hostux.social</a>	● Stable	● New	General
<a href="#">memetastic.space</a>	● Stable	● New	General
<a href="#">social.diskseven.com</a>	● Stable	● Full	General
<a href="#">social.gestaltzerfall.n...</a>	● Stable	● Full	General

[Help me choose](#)

<https://joinmastodon.org/#getting-started>

## engineered.space

A Mastodon Instance for engineering professionals wishing to collaborate and keep in touch that isn't run by a corporation.

Tenemos	Que han escrito	Conectado a
3 usuarios registrados	162 estados	246 otras instancias

## Basic rules

- This instance is intended for engineering professionals wishing to collaborate and keep in touch
- Users must use their real names
- Discussions about politics and the state of the world are not permitted. If you want that, go to Twitter
- Don't be a jerk
- Respect others and if you have a disagreement, keep it in direct messages, not in public
- Please keep bad memes, sexism, racism or any politically incorrect commentary out of the public timeline

## mastodon

[Iniciar sesión](#) [Acerca de esta instancia](#) [Otras instancias ↗](#)

### ¿Qué es cosi.town?

The Clarkson Open Source Institute's slice of the fediverse. Currently, accounts are restricted to current and past students of Clarkson University (use your university email).

## mastodon

[Iniciar sesión](#) [Acerca de esta instancia](#) [Otras instancias ↗](#)

### ¿Qué es reallygay.party?

reallygay.party is one server in the network

Tenemos	Que han escrito	Conectado a
2 usuarios registrados	16 estados	43 otras instancias



Androgynous Admin Jay  
@jay



## social.targaryen.house

social.targaryen.house is one of several mastodon instances in the fediverse. It aims to be an alternative choice, and it will federate with other instances.  
[Fire and Blood!](#)



Home to  
**3,764**  
users

Who authored  
**48,597**  
statuses

Connected to  
**1,391**  
other instances

### Goal of this instance

This is a generalist instance. Either you like Game of Thrones or not, either you support the house Targaryen or not, you will always be welcome. This instance was made because the guy behind believes we can make the Internet better by decentralising. He's also a nerd so he uses a [strong TLS configuration](#) and all [best practices](#) that he's aware of to make this instance secure.

## w3c.social

For people involved in the activities of the World Wide Web Consortium (W3C), in Working Groups or Community Groups, and people who follow the work of the W3C. Run on a volunteer basis by Sandro Hawke and others, NOT the W3C systems team, and NOT supported by W3C. Uses the [W3C Code of Ethics and Professional Conduct](#). A place to talk online about the things you would talk about in a meeting, or at a meal with your group. We plan to have a relaybot soon, so don't feel like you need an account here to be a member of this online community. Please post things you think the W3C community might find interesting!

Tenemos	Que han escrito	Conectado a
52 usuarios registrados	392 estados	518 otras instancias

### ¿Qué es anticapitalist.party?

Anticapitalist Mastodon instance. Party means fun, not political party. **But we're still political.**

Registrations will be open for 5 hours every time French government or President commits social class violence.

### More infos

French Labour minister : "Labour laws only exist to annoy 95% of companies" : [link](#)

Emmanuel Macron : "there is people that succeed and people that are nothing" : [link](#)

Macron doesn't want "poor people to turn into being permanently assisted by State" : [link](#)

Edouard Philippe, french prime minister, embraced right-wing, destroying workers' rights, after reading Les Misérables (Victor Hugo), a book that tjdr talks about workers' poor living conditions : [link](#)

Tenemos	Que han escrito	Conectado a
1.108 usuarios registrados	66.069 estados	1.359 otras instancias



## bitcoinadon.social

Tenemos	Que han escrito	Conectado a
<b>93</b> usuarios registrados	<b>9.519</b> estados	<b>406</b> otras instancias

## CONTACTO

Correo de negocios:

## ENLACES

Comenzar

Iniciar sesión

Términos

Código fuente

## CONTACTO

Correo de negocios:  
[unbendablestrack44.moe](#)

## ENLACES

Comenzar

Iniciar sesión

Términos

Código fuente

## CONTACTO



psy  
@psy

## anitwitter.moe

Anitwitter.moe is a mème focused on providing a community free of overbearing moderation, censorship, and other bullshit that the big social media platforms do. Still being tested, expect the site to go down on occasion.

If you have not received a confirmation email yet, check your spam folder, then join our [discord server](#) and ask in the #anitwitter\_dot\_moe channel for help with manual account confirmation. The big email providers have blocked us from sending out so many confirmation emails, and they are almost done reversing the blacklist.

Bored of this interface? Try out [t.anitwitter.moe](#), it lets you use multiple accounts and has a more tweetdeck-like style. We are working on deploying a twitter

## social.troll.academy

social.troll.academy is a hobby project of [psy](#). I try my best to keep this instance running but I wont give any service guarantees, use it at your own risk. Server location: Germany

Tenemos	Que han escrito	Conectado a
<b>115</b> usuarios registrados	<b>985</b> estados	<b>784</b> otras instancias

## ENLACES

Comenzar

Iniciar sesión

Términos

Código fuente

## VERSION

1.4.7



# Censorship instances

Any specific moderation rules?

Nudity without NSFW tag	Allowed	Don't care	Forbidden
Nudity with NSFW tag	Allowed	Don't care	Forbidden
Pornography without NSFW tag	Allowed	Don't care	Forbidden
Pornography with NSFW tag	Allowed	Don't care	Forbidden
Sexism	Allowed	Don't care	Forbidden
Racism	Allowed	Don't care	Forbidden
Links to illegal content	Allowed	Don't care	The following domains are blocked by this instance:
Spam	Allowed	Don't care	Domain Severity
Advertising	Allowed	Don't care	freezepeach.xyz suspend
Hate speeches	Allowed	Don't care	sealion.club suspend
Harassment	Allowed	Don't care	shitposter.club silence
Spoilers without content warning	Allowed	Don't care	social.heldscal.la silence

noagendasocial.com		suspend
unsafe.space		suspend
porntoot.com		silence + no media
gs.archae.me		silence
gs.smuglo.li		suspend
pawoo.net		silence + no media
social.targaryen.house		silence

Blocked instances

Instance	Status*	Reason
rainbowdash.net	silenced	Advice of toot.cat/cybre.space admins, GNUSocial apparent free speech zone**
shitposter.club	silenced	Advice of toot.cat/cybre.space admins, GNUSocial apparent free speech zone**
freezepeach.xyz	silenced	Advice of toot.cat/cybre.space admins, GNUSocial apparent free speech zone**
social.heldscal.la	silenced	Advice of toot.cat/cybre.space admins, GNUSocial apparent free speech zone**
woofter.alter.us	silenced	Advice of toot.cat admin, GNUSocial apparent free speech zone**
social.au2pb.net	silenced	Advice of toot.cat admin, GNUSocial apparent free speech zone**
gorf.club	silenced	Advice of toot.cat admin, GNUSocial apparent free speech zone**
sealion.club	silenced	Advice of toot.cat/cybre.space admins, GNUSocial apparent free speech zone**
gs.smuglo.li	suspended	Advice of toot.cat admin, GNUSocial apparent free speech zone**, lolicon***
unsafe.space	silenced	Advice of toot.cat admin, GNUSocial apparent free speech zone**
pawoo.net	suspended	lolicon***
wrongthink.net	silenced	GNUSocial apparent free speech zone**
porntoot.com	suspended	Unflagged porn
ediot.social	silenced	Apparent free speech zone**
admins.town	silenced	Inter-admin politics that doesn't need to pollute the public timeline
social.targaryen.house	silenced	Apparent free speech zone**
noagendasocial.com	silenced	Apparent free speech zone**



GAYJAV.COM: FREE FULL LENGTH GAY JAPANESE ADULT VIDEOS

774: 日本男同videos视频

## WATCH 1000+ GAY JAV VIDEOS!

Get a FREE SexKey Account or Login with your Account!

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Number of free passes granted today: 552

[Members Login](#)

[Browse Members-Only Videos. Please signup or login to start the videos.](#)

Free SexKey membership includes free trial to pay site(s). Please read the terms carefully. You can cancel the trial and continue to enjoy unlimited videos on GayJAV.com. It is your responsibility to cancel the free trial if you do not wish to continue with the pay site.

Non-member guests can preview member movies and watch one random video per day. Members enjoy unlimited ad-free videos!





# “Private” Instances > 1200

Shodan Developers Book View All...

SHODAN Server: mastodon

Exploits Maps Share Search Download Results Create Report

TOTAL RESULTS 2,626

TOP COUNTRIES

Japan	1,548
United States	537
France	203
Netherlands	69
United Kingdom	69

TOP SERVICES

HTTPS	1,656
ntop	814
HTTP	146
3001	3
8081	1

TOP ORGANIZATIONS

SAKURA Internet	753
Amazon.com	318
GMO Internet, Inc	221
Digital Ocean	119
Amazon Data Services Japan	78

TOP OPERATING SYSTEMS

FreeBSD 9.x	1
-------------	---

TOP PRODUCTS

Apache httpd	2
--------------	---

**splatoon.yuzulia.com - Splatoon**

153.202.3.68 p460098-1ognn13001.maruouchi.tokyo.ocn.ne.jp Open Computer Network Added on 2017-08-01 15:48:13 GMT • Japan, Tokyo Details

**blablabla.uy - BLAH BLAH BLAH**

104.131.155.31 blablabla.uy Digital Ocean Added on 2017-08-01 15:38:07 GMT • United States, San Francisco Details cloud

**g0v.social - g0v.social**

103.81.248.94 108.81.248.94.vultr.com Choopa, LLC Added on 2017-08-01 15:27:08 GMT • Japan, Higashima Details

**SSL Certificate**

Issued By: Let's Encrypt Authority X3 Issued To: splatoon.yuzulia.com

Supported SSL Versions TLSv1, TLSv1.1, TLSv1.2

Diffie-Hellman Parameters Fingerprint: nginx/hardcoded 1024-bit prime

**SSL Certificate**

Issued By: Let's Encrypt Authority X3 Issued To: www.blablabla.uy

Supported SSL Versions TLSv1.2

**Supported SSL Versions**

TLSv1.2

**SSL Certificate**

Issued By: Let's Encrypt Authority X3 Issued To: g0v.social

Supported SSL Versions TLSv1.2

**HTTP/1.1 200 OK**

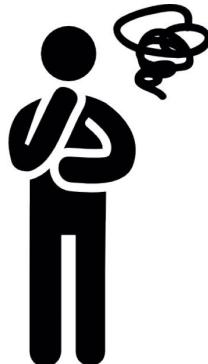
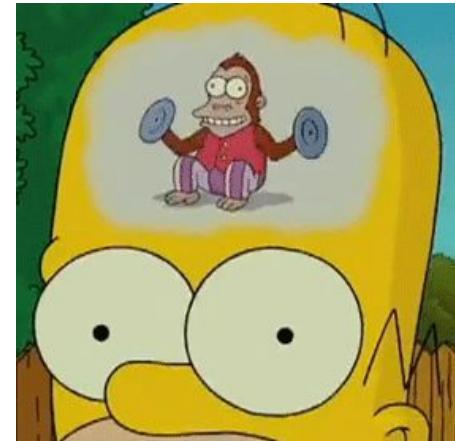
Date: Tue, 01 Aug 2017 15:48:12 GMT Content-Type: text/html; charset=utf-8 Transfer-Encoding: chunked Connection: keep-alive Vary: Accept-Encoding Server: Mastodon X-Frame-Options: DENY X-Content-Type-Options: nosniff X-XSS-Protection: 1; mode=block Vary: Accept-Encoding...

**HTTP/1.1 200 OK**

Date: Tue, 01 Aug 2017 15:38:07 GMT Content-Type: text/html; charset=utf-8 Transfer-Encoding: chunked Connection: keep-alive Vary: Accept-Encoding Server: Mastodon X-Frame-Options: DENY X-Content-Type-Options: nosniff X-XSS-Protection: 1; mode=block Vary: Accept-Encoding ETag: W/"7zb7b882af20..."

**HTTP/1.1 200 OK**

Date: Tue, 01 Aug 2017 15:27:08 GMT Content-Type: text/html; charset=utf-8 Transfer-Encoding: chunked Connection: keep-alive Vary: Accept-Encoding Server: Mastodon X-Frame-Options: DENY X-Content-Type-Options: nosniff X-XSS-Protection: 1; mode=block Vary: Accept-Encoding ETag: W/"d41e7551af8..."



greylog.ru

## Сибирский Заснеженный Сервер



- Мы говорим на **Русском** языке
- У нас **нет** никаких правил
- Сервер физически расположен в Амстердаме
- Мощное железо и **Ежедневные** резервные копии
- Оперативные обновления до последних релизов
- SSL сертификат, защита от MITM
- Отзывчивая администрация. У нас **КРУТО!**

Здесь живет

**5 271**

пользователей

Опубликовано

**853**

статусов

Связан с

**555**

другими узлами

### СВЯЗАТЬСЯ



f2f\_ru  
@f2f

Деловой e-mail:  
root@greylog.ru

### ССЫЛКИ

Начать

Войти

Условия

Исходный код

### ВЕРСИЯ

1.4.1

## Предупреждение

Все персонажи и события, несмотря на очевидную связь с реальностью, являются полностью вымышленными. Голоса знаменитостей сымитированы. Инстанс изобилует грубыми выражениями и, в силу своего жесткого содержания и отношения, вообще не предназначен для просмотра лицам младше 18 лет.

**С О Д Е Р Ж И Т С Я**  
**НЕНОРМАТИВНАЯ**  
**Л Е К С И К А**

lesbiantschool.com

school for lesbians  
(mostly tera's house of friends actually)

Tenemos Que han escrito Conectado a

**8 2.141 52**

usuarios registrados estados otras instancias

rules: be excellent to everyone; nazi punks fuck off  
when interacting with users of other instances, comply with rules as laid out by the other instance(s),  
inasmuch as these rules do not conflict with those of this instance

### CONTACTO



Headmistress Therathiel  
@Therathiel

Correo de negocios:  
admin@threela.ws

### ENLACES

Comenzar

Iniciar sesión

Términos

Código fuente

### VERSIÓN

1.4.7

### CONTACTO



Jeffy  
@Jeffy

Correo de negocios:  
jeffy@theshrub.co

### ENLACES

Comenzar

Iniciar sesión

Términos

Código fuente

### VERSIÓN

1.4.3

shrubnet.theshrub.co

Welcome to Shrubnet, the official social network of The Shrub – by The Shrub, for  
The Shrub, Shrub owned and Shrub operated. Certified organic cage-free fair-trade  
Shrubnet, where the only limit is your imagination! No not nonsense, no big data  
tracking & no external surveillance. All hail Jeffy!

Tenemos Que han escrito Conectado a

**17 56 0**

usuarios registrados estados otras instancias

## ¿Qué es elekk.xyz?

Elekk is a Mastodon instance by gamers, for gamers. Games of any type are welcome here - computer, video, tabletop, etc. - as well as game development of any kind. **GAMERGATE AND THE ALT-RIGHT ARE NOT WELCOME HERE.**

Tenemos **46** usuarios registrados  
Que han escrito **2.214** estados  
Conectado a **621** otras instancias

Contacto: noelle@noelleanthony...



Out of Quarters  
@noelle

Elekk is a Mastodon instance by gamers, for gamers. Games of any type are welcome here - computer games, console games, tabletop games, etc. - as well as game development of any kind. Whether you make games, play games, or some of both, this is the place for you.

¿Qué es mastodon.hakai-macaron.com?

大学のメールアドレスで登録できる学生用Mastodon

登録できるドメインは

[このインスタンスについて](#)を参照

ドメインが怪しくてすみません

Tenemos **17** usuarios registrados  
Que han escrito **269** estados  
Conectado a **344** otras instancias

Contacto: N/A



マカロン  
@macaron

## LGBT.io

Mastodon is a **free-open-source** social network. A **decentralised** alternative to commercial platforms, it avoids the risks of a single company monopolising your communication. **LGBT.io** is one of the Mastodon instances out there. Once signed up, you can interact with members on this instance and everyone else in the fediverse! We welcome all LGBT+ people and allies all around the world! Be friendly. Be happy. Be safe. :-)

Username  
Email address  
Password  
Confirm password

**GET STARTED**



[Log in](#) • [About this instance](#)

What sets Mastodon apart

- Timelines are chronological
- Public timelines

- Granular, per-post privacy settings
- Rich block and mention tools

## CONTACTO

Correo de negocios:  
[admin@insoumis-es.net](mailto:admin@insoumis-es.net)

## ENLACES

[Comenzar](#)

[Iniciar sesión](#)

[Términos](#)

[Código fuente](#)

## insoumis-es.net

Bastion insoumis et libre dont l'objectif est de porter le programme "l'avenir en commun" de la [France insoumise](#). Résistance!

Ce serveur est une initiative personnelle indépendante, bénévole et autonome de toute organisation ou parti.

Tenemos **177** usuarios registrados  
Que han escrito **926** estados  
Conectado a **478** otras instancias

Fierce and unapologetic freedom of expression.

The only speech or ideas prohibited, censored or otherwise banned here are those which are explicitly illegal in the USA.

Donations BTC: 1QJlano79Lp7FHrTPcNyTeuzzXQHxFPbB

[Mastodon-Twitter Friend Finder](#)

NOTICE: If you have attempted to create an account and did not receive an activation email, please email

admin@twitterchan.net.

Tenemos	Que han escrito	Conectado a
17 usuarios registrados	298 estados	580 otras instancias

This service exists to fiercely and unashamedly support freedom of expression.

## CONTACTO

Correo de negocios:  
[admin@twitterchan.net](mailto:admin@twitterchan.net)

## ENLACES

- [Comenzar](#)
- [Iniciar sesión](#)
- [Términos](#)
- [Código fuente](#)

## VERSIÓN

1.3.3

# Co voiturage avec Economie Collaborative, Co-organisation

La vallée d'azergues, haute ou basse, vivante en réseaux !

Abrite

53

utilisateur-trices

Ayant publié

179

Connectés à

2

financez bientôt vos actes de consor collaboratives ou la monnaie virtuelles

## Bientot

[xn--twtr-7raz.com](http://xn--twtr-7raz.com)

ceo of the popular bird website dont read this

...

users of the popular bird website... hello

Tenemos

Que han escrito

Conectado a

17

10

16

usuarios registrados

estados

otras instancias

no nazis, capiche? 🦇🦇

[selfy.army](#)

If you haven't guessed yet, this particular Mastodon server is all about selfies. And only about selfies – that's the **only** thing we want you to post here!

(We're not going to actually delete posts that aren't selfies.)

Things we **will** delete are:

- bigotry
- threats and harassment
- other antisocial behavior, at our discretion

Tenemos

Que han escrito

Conectado a

22

1.847

490

usuarios registrados

estados

otras instancias

This instance is hosted on a DigitalOcean virtual server in Germany.

## CONTACT



MonsieurB Grandris  
@MonsieurB

## LIENS

- [Rejoindre le réseau](#)
- [Se connecter](#)
- [Conditions d'utilisation](#)
- [Code source](#)



jack  
@jack

Correo de negocios:  
[admin@twitter.com](mailto:admin@twitter.com)

## ENLACES

- [Comenzar](#)
- [Iniciar sesión](#)
- [Términos](#)
- [Código fuente](#)

## VERSIÓN

1.4.6



alex  
@catalina

## ENLACES

- [Comenzar](#)
- [Iniciar sesión](#)
- [Términos](#)
- [Código fuente](#)

## VERSIÓN



# mstdnelm5phqmrl7.onion

## About this instance

This is a mastodon instance for hidden service.

## How to register?

Currently we're accepting registration from SMTorP enabled domains such as following domains. (not limited to following domain)

- [torbox3uiot6wchz.onion](http://torbox3uiot6wchz.onion)
- [tt3j2x4k5ycaa5zt.onion](http://tt3j2x4k5ycaa5zt.onion)
- [344c6kbnjnlijzlz.onion](http://344c6kbnjnlijzlz.onion)
- [ncikv3i4qfzwy2qy.onion](http://ncikv3i4qfzwy2qy.onion)

Home to

24

users

Who authored

14

statuses

Connected to

1

other instances

## CONTACT



root  
@root

Business e-mail:  
root@http://mstdnelm5phqmrl7.onion

## LINKS

[Get started](#)

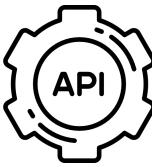
[Log in](#)

[Terms](#)

[Source code](#)

## VERSION

1.3.3



# 2. Toots

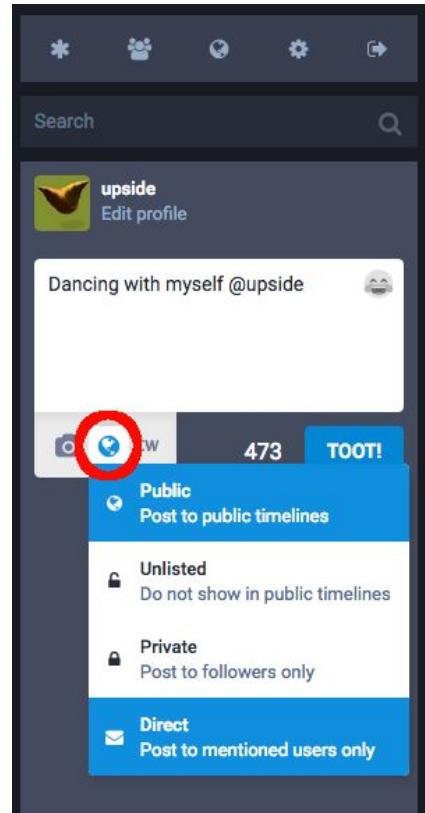
What does "Adjust Status Privacy" mean and how does it work?

The globe icon under the toot area adjusts your status privacy by changing who can see your posts. This is what happens:

Privacy setting	Broadcasted to	Viewable by	Notes
Public	Global, public timelines	Everyone	Federated. People on other instances will probably see it.
Unlisted	Followers only	Everyone	Can be boosted and thus seen on other instances.
Private	Followers only	Followers only	Cannot be boosted.
Direct	Mentioned people only	Mentioned people only	Similar to email

## What sets Mastodon apart

- Timelines are chronological
- Public timelines
- 500 characters per post
- GIFs sets and short videos
- Granular, per-post privacy settings
- Rich block and muting tools
- Ethical design: no ads, no tracking
- Open API for apps and services



# Inside instance



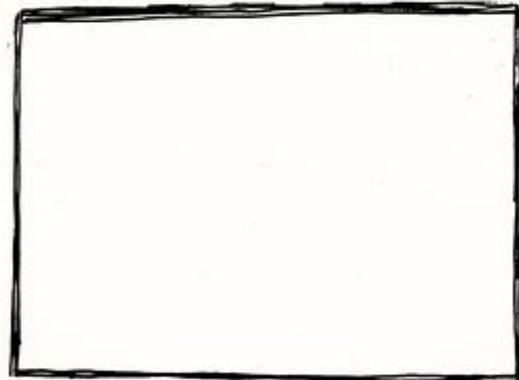
This image shows a screenshot of the Tootsuite Mastodon interface, illustrating the concept of "Inside instance". The interface is divided into several panels:

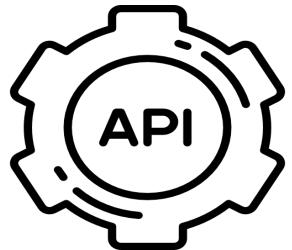
- Left Panel (Red Border):** Includes a search bar, a user profile for @SpiderMastodon, and a text input field asking "¿En qué estás pensando?". It also shows a camera icon, a CW icon, and a "500 TOOTEAR!" button.
- Second Panel (Orange Border):** Shows the "Inicio" feed with several posts from users like "Retootead por れいま@ばう -hotsprings:" and "すり身缶 EX.Q @tuki\_... hace 3 horas".
- Third Panel (Green Border):** Shows the "Notificaciones" (Notifications) feed with notifications from users like "Alexis Werefox te empezó a seguir" and "Victor F. te empezó a seguir".
- Fourth Panel (Yellow Border):** Shows the "Historia federada" (Federated History) feed with posts from users like "Gen Kuro ... hace 7 segundos" and "Tamara Frankel te empezó a seguir".
- Fifth Panel (Pink Border):** Shows the "Historia local" (Local History) feed with posts from users like "Zéphyrin ... hace 22 segundos" and "Brooksie @Brooksie hace 1 minuto".
- Right Panel (No Border):** Contains sections for "Primeros pasos" (First steps), "NAVIGATION", "Favoritos", "Usuarios silenciados", "Usuarios bloqueados", "SETTINGS", "Información adicional", "Preferencias", and "Cerrar sesión". It also includes links to "FAQ", "User Guide", and "Apps", and a note about reporting errors to "jootsuite/mastodon".

The overall layout demonstrates how multiple timelines and features are presented within a single application window, separated by colored borders.



it's DEMOtime!





## List of libraries

Below, a list of libraries to interact with the Mastodon API, sorted by programming language and library name.

Language	Library	Developer(s)
Apex (Salesforce)	apex-mastodon	
C# (.NET Standard)	Mastodot	
C# (.NET Standard)	Mastonet	
C# (.NET)	mastodon-api-cs	
C# (.NET)	Mastodon.Net	
Crystal	mastodon.cr	
Elixir	hunter	
Go	go-mastodon	
Go	madon	
Haskell	hastodon	
Java	mastodon4j	
JavaScript	libodonjs	
JavaScript (Browser)	mastodon.js	
JavaScript (Node.js)	node-mastodon	
JavaScript (Node.js)	mastodon-api	
Perl	Mastodon::Client	@jjatria@mastodon.cloud
PHP	Mastodon API for Laravel	

<https://github.com/tootsuite/documentation/blob/master/Using-the-API/API.md>

## Accounts

Fetching an account:

```
GET /api/v1/accounts/:id
```

Getting an account's statuses:

```
GET /api/v1/accounts/:id/statuses
```

Query parameters:

Field	Description	Optional
only_media	Only return statuses that have media attachments	yes
exclude_replies	Skip statuses that reply to other statuses	yes
max_id	Get a list of statuses with ID less than this value	yes
since_id	Get a list of statuses with ID greater than this value	yes
limit	Maximum number of statuses to get (Default 20, Max 40)	yes

## Timelines

Retrieving a timeline:

```
GET /api/v1/timelines/home  
GET /api/v1/timelines/public  
GET /api/v1/timelines/tag/:hashtag
```

Query parameters:

Field	Description	Optional
local	Only return statuses originating from this instance (public and tag timelines only)	yes
max_id	Get a list of timelines with ID less than this value	yes
since_id	Get a list of timelines with ID greater than this value	yes
limit	Maximum number of statuses on the requested timeline to get (Default 20, Max 40)	yes

Note: `max_id` and `since_id` for next and previous pages are provided in the `Link` header. However, it is possible to use the `_id` of the returned objects to construct your own URLs.

# Apps



Registering an application:

POST /api/v1/apps

Form data:

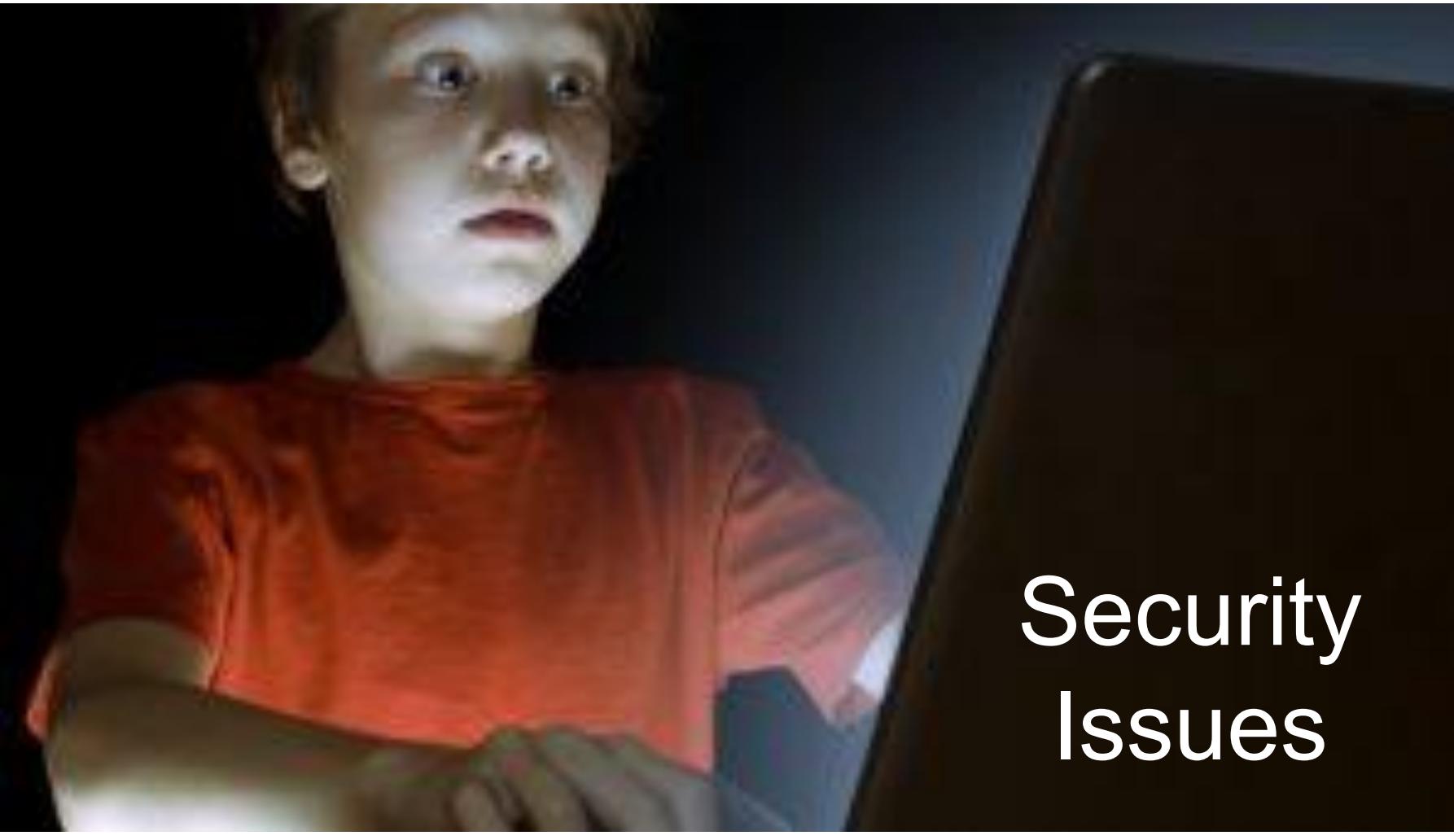
Field	Description	Optional
client_name	Name of your application	no
redirect_uris	Where the user should be redirected after authorization (for no redirect, use urn:ietf:wg:oauth:2.0:oob )	no
scopes	This can be a space-separated list of the following items: "read", "write" and "follow" (see <a href="#">this page</a> for details on what the scopes do)	no
website	URL to the homepage of your app	yes

Creates a new OAuth app.

Returns `id`, `client_id` and `client_secret` which can be used with [OAuth authentication](#) in your 3rd party app.

These values should be requested in the app itself from the API for each new app install + mastodon domain combo, and stored in the app for future requests.



A woman with short brown hair, wearing a red turtleneck sweater over a green top, is looking upwards with a shocked expression. Her mouth is slightly open. The background is dark.

Security  
Issues

# 1. Spy network: Crawling Toots...

The top screenshot shows a status from user 'ろぜ' (@RH@mstdn.jp) with the text 'あ、解決した'. The bottom screenshot shows a status from user 'Eugen' (@Gargron) with the text 'Hello world'.

## Security issues:

- You can request toots from the “beginning”...
- Predictable URL (bruteforce Sequential ID)
- “Infinite” queries...
- **NO AUTH**



```
[  
 {  
   "id": 1,  
   "created_at": "2016-03-16T14:44:31.580Z",  
   "in_reply_to_id": null,  
   "in_reply_to_account_id": null,  
   "sensitive": false,  
   "spoiler_text": "",  
   "visibility": "public",  
   "language": "en",  
   "uri": "tag:mastodon.social,2016-03-16:objectId=1:objectType=Status",  
   "content": "<p>Hello world</p>",  
   "url": "https://mastodon.social/@Gargron/1",  
   "reblogs_count": 32,  
   "favourites_count": 46,  
   "favoured": false,  
   "reblogged": false,  
   "muted": false,  
   "reblog": null,  
   "application": null,  
   "account": {  
     "id": 1,  
     "username": "Gargron",  
     "acct": "Gargron",  
     "display_name": "Eugen",  
     "locked": false,  
     "created_at": "2016-03-16T14:44:31.580Z"  
   }  
 }]
```



**Limitation: máx 40 toots/request**

Ej/ mastodon.social (80K users)  
14.355.810 toots (day 2/08)  
358.896 requests-> 1xseg  
358.896/3600 → 100H

...

10 clientes en paralelo □ 10H  
(10H actividad de toda la instancia)

```
import java.util.concurrent.Callable;  
  
public class GetTimeline implements Callable<JSONArray> {  
  
    private String instance;  
    private long id;  
    private String token;  
  
    public GetTimeline(String instance2, long n, String token2) {  
        this.instance = instance2;  
        this.id = n;  
        this.token = token2;  
    }  
  
    public JSONArray call() throws Exception {  
        HttpResponse<JsonNode> jsonResponse = null;  
        JSONArray timeline = new JSONArray();  
        try {  
            jsonResponse = Unirest.get("https://" + instance + "/api/v1/timelines/public?limit=40&max_id=" + id)  
                .header("authorization", "Bearer " + token)  
                .header("cache-control", "no-cache")  
                .asJson();  
        } catch (UnrestException e) {  
            e.printStackTrace();  
        } catch (Exception e){  
            e.printStackTrace();  
        }  
        try{  
            timeline = jsonResponse.getBody().getArray();  
        } catch (Exception e){  
            e.printStackTrace();  
        }  
        return timeline;  
    }  
}
```

# 1. Spy network: Crawling Toots...

it's DEMOtime!



```
Navaja_2017:java -jar PoC_Navaja.jar
Welcome to Mastodon Tool. Use under your own responsibility
```

```
-----
Option 1: List of instances.
Option 2: More info about one instance.
Option 3: Read toots in a instance.
Option 4: Help about Mastodon.
Option 5: Donate.
Option 6: Quit.
```

```
-----
Select Option: 5
If you like to colaborate
```

```
-----
BTC address: 14dNh5Pnihd6wZ8Q4i1TXqumtABaT4CARv
```

# 1. Spy network: Crawling Users...

The screenshot shows a Mastodon user profile for @SpiderMastodon. The profile picture is a cartoon character. The name is Eugen (@Gargron). Below the name, it says "Developer of Mastodon, a GNU social alternative: [github.com/Gargron/mastodon](https://github.com/Gargron/mastodon) [patreon.com/user?u=619786](https://www.patreon.com/user?u=619786)" and "Avatar by [@DearMsDear](https://mastodon.art/@DearMsDear)". The bio is "En qué estás pensando?" with a thinking emoji. The stats are: PUBLICACIONES 18.952, SEGUIR 626, SEGUIDORES 13.745. There are buttons for TOOTEAR! and CW.

```
{  
    "id": 1,  
    "username": "Gargron",  
    "acct": "Gargron",  
    "display_name": "Eugen",  
    "locked": false,  
    "created_at": "2016-03-16T14:34:26.392Z",  
    "note": "<p>Developer of Mastodon, a GNU social alternative: <a href=\"https://github.com/Gargron/mastodon\" rel=\"nofollow noopener\" target=\"_blank\"><span class=\"invisible\">https://</span><span class=\"\">github.com/Gargron/mastodon</span><span class=\"invisible\">\"</span></a> <a href=\"https://www.patreon.com/user?u=619786\" rel=\"nofollow noopener\" target=\"_blank\"><span class=\"invisible\">https://www.patreon.com/user?u=619786</span><span class=\"invisible\">\"</span></a> Avatar by <span class=\"h-card\"><a href=\"https://mastodon.art/@DearMsDear\" class=\"u-url mention\">@span>DearMsDear</a></span></p>",  
    "url": "https://mastodon.social/@Gargron",  
    "avatar": "https://files.mastodon.social/accounts/avatars/000/000/001/original/8e3dd118a025f184.png",  
    "avatar_static": "https://files.mastodon.social/accounts/avatars/000/000/001/original/8e3dd118a025f184.png",  
    "header": "https://files.mastodon.social/accounts/headers/000/000/001/original/media.jpeg",  
    "header_static": "https://files.mastodon.social/accounts/headers/000/000/001/original/media.jpeg",  
    "followers_count": 13745,  
    "following_count": 626,  
    "statuses_count": 18956  
}
```

```
private static JSONObject getUsers(String Instance, long id) {  
    // TODO Auto-generated method stub  
    HttpResponse<JsonNode> jsonResponse = null;  
    JSONObject infoUser = new JSONObject();  
    try {  
        jsonResponse = Unirest.get("https://" + Instance + "/api/v1/accounts/" + id)  
            .header("authorization", "Bearer " + token)  
            .header("cache-control", "no-cache")  
            .asJson();  
    } catch (UnirestException e) {  
        e.printStackTrace();  
    }  
    infoUser.put("id", id);  
    infoUser.put("username", jsonResponse.getBody().get("username").toString());  
    infoUser.put("acct", jsonResponse.getBody().get("acct").toString());  
    infoUser.put("display_name", jsonResponse.getBody().get("display_name").toString());  
    infoUser.put("locked", jsonResponse.getBody().get("locked").toString());  
    infoUser.put("created_at", jsonResponse.getBody().get("created_at").toString());  
    infoUser.put("note", jsonResponse.getBody().get("note").toString());  
    infoUser.put("url", jsonResponse.getBody().get("url").toString());  
    infoUser.put("avatar", jsonResponse.getBody().get("avatar").toString());  
    infoUser.put("avatar_static", jsonResponse.getBody().get("avatar_static").toString());  
    infoUser.put("header", jsonResponse.getBody().get("header").toString());  
    infoUser.put("header_static", jsonResponse.getBody().get("header_static").toString());  
    infoUser.put("followers_count", jsonResponse.getBody().get("followers_count").toString());  
    infoUser.put("following_count", jsonResponse.getBody().get("following_count").toString());  
    infoUser.put("statuses_count", jsonResponse.getBody().get("statuses_count").toString());  
    return infoUser;  
}
```

## Security issues:

- You can list all users and followers/following
- Predictable URL (bruteforce Sequential ID)
- “Infinite” queries...



**Limitation: 1 user/request**

Ej/ mastodon.social (80K users)  
80.000 request  1xseg  
80.000/3600  22h (con un solo cliente)



## RESEARCH ARTICLE

## On the tweet arrival process at Twitter: analysis and applications

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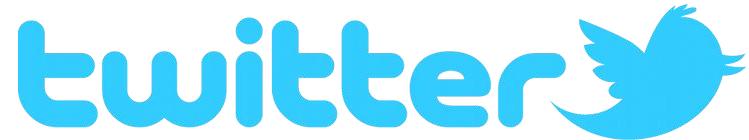
### ABSTRACT

This work provides a novel measurement-based analysis of the tweet arrival traffic process at Twitter. The analysis considers more than one million total tweets collected at 48 different times of the day (o'clock and half-past every hour). We observe a 3.5-tweet/ms average rate with a valley of 2.5 tweets/ms at 10 AM (GMT+1) and a peak at 3 PM (GMT+1) of about 5 tweets/ms. We further model the traffic pattern as a Gaussian process, and we validate such an assumption with multiple normality tests. Finally, we overview a number of applications where such a model may show its utility, namely infrastructure dimensioning and upgrading, the detection of outlier events, energy efficiency and so on. Copyright © 2014 John Wiley & Sons, Ltd.

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### 1. INTRODUCTION

Twitter [1] is a microblogging system created in 2006 by Jack Dorsey and Biz Stone. In Twitter, users post text messages of up to 140 characters named *tweets*, which are then received by the users' *followers*, that is, other users registered in the system to follow the former ones. For example, user Bob registers at Twitter and decides to *follow* user Alice. Then, we call Bob as a *follower* of Alice and Alice as a *friend* of Bob. This *friend*→*follower* relationship (or link) allows Bob to visualise every *tweet* posted by Alice.

This conceptually simple system has rapidly attracted a large number of users and become one of the most successful platforms for both social interaction and information broadcasting in the Internet. In fact, Twitter accounts with more than 100 million active users, more than 200 million registered users and about 140 million tweets posted every day to the system.<sup>†</sup> Also, twitter.com is the ninth site with the largest number of visits across the world, as reported by Alexa.<sup>‡</sup> Furthermore, Twitter [along with other online social networks (OSNs) such as Facebook] has been the key platform to orchestrate some of the most important

social events in recent years, for instance, the *arab spring* or the *occupy* movements around the world.

Indeed, such a great popularity has attracted the research community to investigate Twitter from a scientific and social point of view. However, there is little published work concerning the analysis of the traffic process of Twitter. Such a study may provide useful tools in the dimensioning, monitoring, security and fast detection of unusual events (say sudden hot topics) in Twitter. This work attempts to address this research gap by: (i) providing a measurement-based study of the tweet arrival process at Twitter on a per-hour basis and (ii) assessing the suitability of Gaussian processes to characterise the tweet arrival process.

Concerning data measurements, the Twitter Representative State Transfer (REST) application programming interface (API) allows to query tweet arrivals with millisecond granularity, but the API limits the capturing process to 350 queries/h per Internet protocol (IP) address. To accelerate the data collection process, we have implemented a distributed crawler that performs 8400 queries/h, yielding a data set of more than one million tweet measurements in total. Such a measurement set comprises the consecutive tweet arrivals at 48 times of the day for Monday, 16 January 2012, GMT+1. These times are as follows: 00.00, 00.30, 1.00, 1.30 and so on until 23.30 (at every hour exactly and its half-past). This measurement set provides a good picture of the tweet arrival process for that day, and

<sup>†</sup><http://blog.twitter.com/>

<sup>‡</sup>Note that Alexa only considers the visit to the website and does not take into account other connections from applications that use the Twitter API.

# 1. Spy network: Text mining...

Keywords: "nazi", "hitler", "whitepower", "hacker"  
Instances: 2 (mastodon.social, cybre.space)

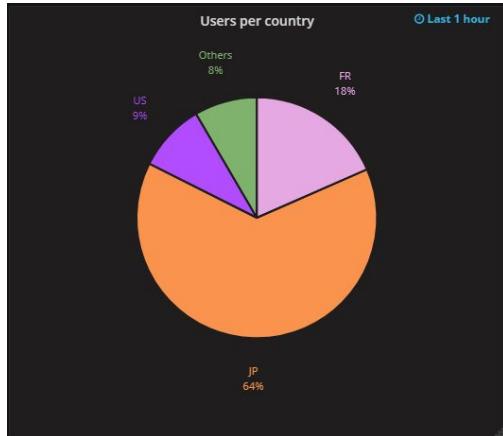


Users under suspicious: 282,093

Users detected: 1,891

Analysed Toots: 967,820

Toots with keywords: 3,417



The screenshot shows a Mastodon instance interface. At the top right is a blue "SEGUIR" button. Below it is a circular user icon with a stylized spider and a person. The user's name is "Rooooooooot" and their handle is "@SpiderMastodon". Below the name, the bio reads "eat,sleep,rootear. #nospyder". Key statistics are displayed: TOOTS 21, SIGUIENDO 28.296, and SEGUIDORES 320. A timeline of recent posts from this user is shown, all posted "el mes pasado" (last month). The posts are:

- Rooooooooot @SpiderMastodon @J\_Dillmann @J\_Dillmann If you want me to follow you, I'll need proof of love.
- Rooooooooot @SpiderMastodon @hoerspiel thanks you!!
- Rooooooooot @SpiderMastodon @Alg0t That is what a robot would think.....
- Rooooooooot @SpiderMastodon @Alg0t With Love.:-)
- Rooooooooot @SpiderMastodon @Seven It's a funny proof, It's a problem? Sorry :(
- Rooooooooot @SpiderMastodon @Seven Nah, I'm a cool guy, Nice to meet u
- Rooooooooot @SpiderMastodon @Seven I'm a little human, with 4 legs and 8 arms.

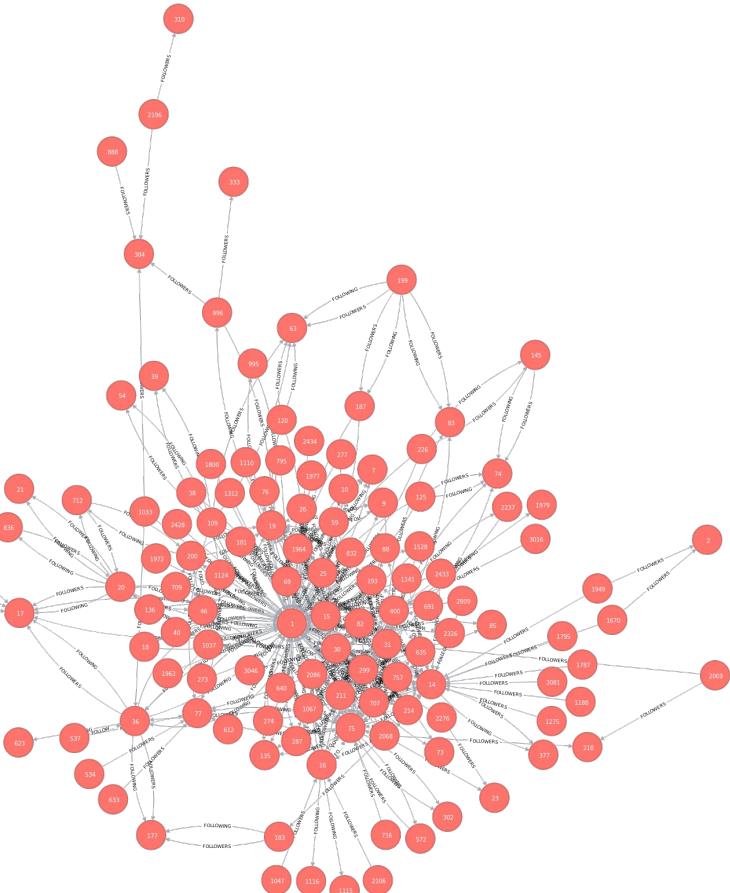
# 1. Spy network: Studing relations

Traducción:

Este sitio es sólo los usuarios chinos para entrar  
No discuta la violación de las leyes chinas en Hong Kong en este nodo

No discuta la política, la pornografía, la violencia, el terrorismo, el odio nacional y otras leyes relacionadas que prohíben la libertad de expresión.

No anunciar y Spam en este nodo



 mastodon

Back to Mastodon About Instance list

What is acg.mn?

本站仅限中文用户进入

Contact: sb@sb.sb Missing

Home to 436 users Who authored 1,034 statuses Connected to 278 other instances Not set N/A

请勿在本节点讨论违反中国和中国香港法律规定的言论  
请勿讨论政治、色情、暴力、恐怖主义、民族仇恨等相关法律禁止的言论  
请勿在本节点发广告和 Spam  
违者封号处理





# 1. Spy network: Following “new friends”

The screenshot shows a Mastodon account page for the user @SpiderMastodon. The top navigation bar includes icons for search, home, and account management, and the URL mastodon.social/web/accounts/153395. The main content area displays the user's profile picture (a circular icon with various icons inside), their name Rooooooot, their handle @SpiderMastodon, and their bio eat,sleep,rootear. #nospyder. Below this, there are statistics: PUBLICACIONES 21, SEGUIR 28.295 (highlighted with a red circle), and SEGUIDORES 319. At the bottom, there are buttons for TOOTEAR!, CW, and a camera icon.



Anything wrong?





# 1. Spy network: Following “new friends”

**Jonas**   @zatnosk@ma...ayer

Oh no! I'm being crawled (on) by a spyder! @SpiderCyberSpace

**polyhedral halcy** @halcy@i...ayer Is @SpiderCyberSpace some kind of followbot

**Florian**  @theoutrider@m...ayer @halcy the term "Spider" certainly wouldn't be out of character given the instance

**polyhedral halcy** @halcy@i...ayer @theoutrider ya, but like, follows people at a rate of 10 a minute or w/e

**Florian**  @theoutrider@m...ayer @halcy or maybe just someone moving instances and importing their follows

**polyhedral halcy** @halcy@i...ayer @SpiderCyberSpace You'll have to test it somewhere else, then.

**polyhedral halcy** @halcy@i...ayer Is @SpiderCyberSpace some kind of followbot

**polyhedral halcy** @halcy@i...ayer @theoutrider well, I'm not super fond of mysterious robotic activity, so, time to suspend that account.

**Spyder** @SpiderCyberSpace

@halcy @theoutrider I'm not a robot!!!

**Algot** @Algot@ma...hace 22 minutos @SpiderMastodon

I don't feel very special right now, just one of 10,826 accounts you follow.

How DO you keep us straight?

**Rooooooooot** @Spid... hace 22 minutos @Algot With Love :)

**Algot** @Algot@mastodon.cloud @SpiderMastodon

Would the name "Webbbbbbbb" be better for a spider account rather than "Rooooooooot"?

20 jun. 2017 17:18 - 0 · 0 · 0

**Rooooooooot** @Spid... hace 15 minutos @Algot That is what a robot would think.....



## 2. Creation user (Transversal user)

The screenshot shows the Mastodon homepage with a registration form overlay. The form fields are: Nombre de usuario (@mastodon.social), Dirección de correo electrónico, Contraseña, and Confirmar contraseña. A blue 'Registrarse' button is at the bottom. Below the form, a note states: 'By signing up you agree to our [terms of service](#) and [privacy policy](#)'. A large cartoon mastodon is in the background.

1

The screenshot shows the registration page with validation errors. The errors are: 'Nombre de usuario @mastodon.social no puede estar en blanco' (Name cannot be empty), 'Dirección de correo electrónico no puede estar en blanco' (Email cannot be empty), and 'Contraseña no puede estar en blanco' (Password cannot be empty). A large red error message box says: '¡Algo no está bien! Por favor, revise 3 errores más abajo'. At the bottom is a blue 'REGISTRARSE' button.

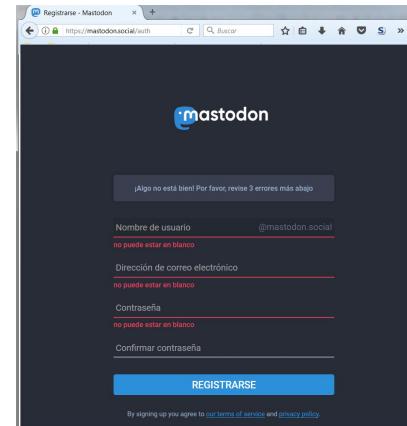
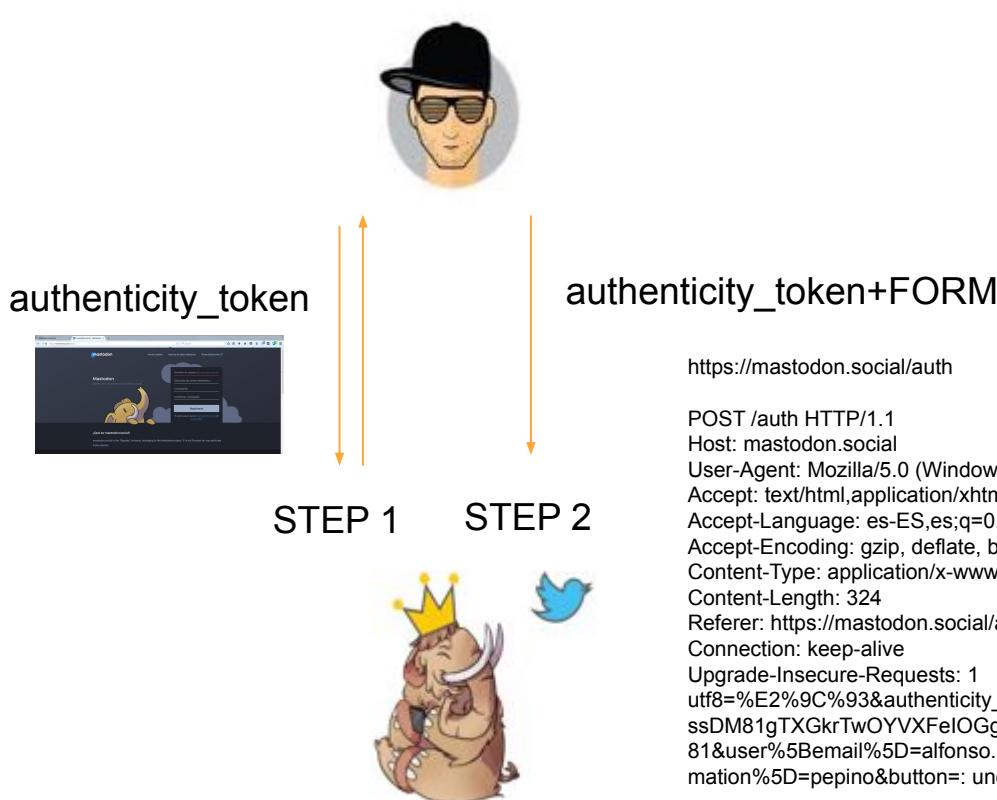
2



The screenshot shows an email inbox with a single message from 'Mastodon <notifications@mastodon.social>' to the user. The subject is 'Instrucciones de confirmación'. The message body says: 'Welcome [REDACTED]@[REDACTED].com ! You just created an account on mastodon.social. To confirm your inscription, please click on the following link : [Confirm my account](https://mastodon.social/auth/confirmation?confirmation_token=z2mMXFsbSzysZNv27Bxd). Please also check out our [terms and conditions](#). Sincerely, The mastodon.social team'.

3

## 2. Creation user (Transversal user)



## 2. Creation user (Transversal user)



STEP 3



Su dirección de correo ha sido confirmada con éxito.

dirección de correo electrónico

Contraseña

INICIAR SESIÓN

Registrarse   Olvidaste tu contraseña?

[https://mastodon.social/auth/confirmation?confirmation\\_token=z2mMXFsbSzysZNv27Bxd](https://mastodon.social/auth/confirmation?confirmation_token=z2mMXFsbSzysZNv27Bxd)

STEP 5

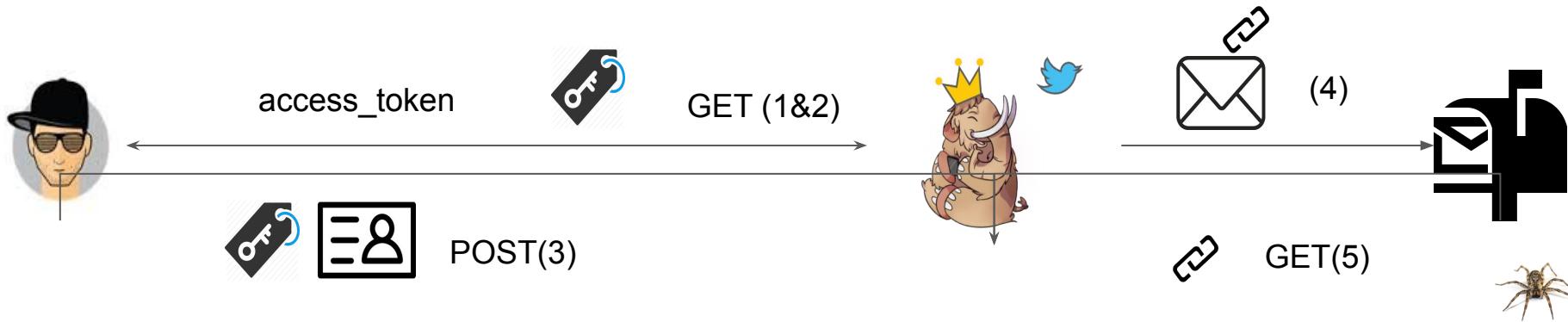


STEP 4



## 2. Creation user: Summary

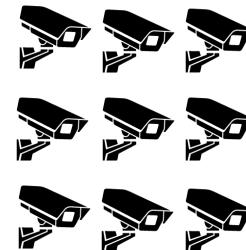
1. GET HTTP/S
2. TAKE ACCESS\_TOKEN
3. SEND ACCESS\_TOKEN + FORM
4. RECEIVE CONFIRM EMAIL
5. SEND GET TO THE URL INSIDE MAIL



## 2. Creation user (Transversal User)



l5m.icolectiva.org;458ef73098145c22a75499ea8db165104090cb  
39sounds.net;7490eeab7b7ec7f011a913df01449ef78236d655a587  
7144.party;e111a2e0f0c172a48349c64053e60fc9b7a036bbbd4618  
765ml.com;350999d52927594f6b1f97f15d53d144b5776e76785f9ca  
3dcgdon.net;79424f9a747c4d4603d05a4b837384d8d77d206099891  
acg.mn;89f6eb3096cba269bb9601f3f49b175997522577465841630e  
akitadon.info;bc7a9e759b426be1b8f0f17f9fa5780ea54bcdbac0  
akibadon.com;069f539f59b39043d15c6a8ad94458647bb6674d96db  
mstdn.social;696ae6b86f231ad5a99505c5e5570da86f3539643c6e  
a.weirder.earth;7dd6fda0a0445016f773565763a9e4b7beab194ef  
amefootdon.com;730a8462e50c715953d144b32bfe10d1c890c5f5a7  
algerietelecom.org;0db184e6d3d1f7031257dc61bac3fb9373922  
babymetal.party;ae235347aabdf7c5873e5c389c7c1232852be69e4  
biwakodon.com;2777184c377ea43fcfcf0aa2bb4a302f47ff21dcf6b  
bonn.social;1ae76407b7479808d80fc3130752e8f118876984c834  
avidol.jp;b1af2c332f5fa452d834b466475dd1b913eedc98fdc69f5  
ashikaga.link;0c391810795a09b611e2146e0a454b877a5cf961620  
aidon.club;3adf6e1f0233bef36424af39c89284e637b3b345a4213c  
awoo.space;ae63529b53662345bbbacef866c44fcf5284c4d4173ca0  
mastodon.apoil.org;83e9c78f275270488a292af513370ba7922502  
anti.energy;618fd3d01hbhehf6cd541c9ea612ech3c0cac0d61292ed



\* Only 1 email account -> 700 accounts 😊

- [mastodon\\_usuarios\\_39sounds.net](#)
- [mastodon\\_usuarios\\_765ml.com](#)
- [mastodon\\_usuarios\\_7144.party](#)
- [mastodon\\_usuarios\\_a.weirder.earth](#)
- [mastodon\\_usuarios\\_acg.mn](#)
- [mastodon\\_usuarios\\_aidon.club](#)
- [mastodon\\_usuarios\\_akibadon.com](#)
- [mastodon\\_usuarios\\_akitadon.info](#)
- [mastodon\\_usuarios\\_algerietelecom.org](#)
- [mastodon\\_usuarios\\_amefootdon.com](#)
- [mastodon\\_usuarios\\_amnz.jp](#)
- [mastodon\\_usuarios\\_anime.mstdn.cloud](#)
- [mastodon\\_usuarios\\_anti.energy](#)
- [mastodon\\_usuarios\\_ashikaga.link](#)
- [mastodon\\_usuarios\\_avidol.jp](#)
- [mastodon\\_usuarios\\_awoo.space](#)
- [mastodon\\_usuarios\\_babymetal.party](#)
- [mastodon\\_usuarios\\_biwakodon.com](#)
- [mastodon\\_usuarios\\_bne.social](#)
- [mastodon\\_usuarios\\_bonn.social](#)

# 3. Impersonation

Impersonation via other Mastodon instances aka fake accounts #913

Closed Kovah opened this issue on 5 Apr · 37 comments



wxcafe commented on 13 Apr

Collaborator



This is not something that can be fixed by mastodon (the proposition to make the name of the instance more visible can be opened in another issue, and all the other suggestions are basically to use another service and identify there). Therefore, I'm closing this issue

2 1

wxcafe closed this on 13 Apr



Según el tipo de **suplantación de identidad** que se realice conlleva una u otra pena, así, cuando la suplantación de identidad consiste únicamente en la apertura o registro de un perfil sin que en él se den datos personales, la opción que tiene el suplantado es hablar con el portal web, foro o red social para que sean sus administradores quienes eliminén el perfil falso. Es decir, **el hecho de utilizar sólo el nombre, sin imágenes, no se considera delito.**

Por el contrario, si se crea un perfil falso y se utiliza información personal de la **persona suplantada**, como puede ser una fotografía, se está cometiendo un delito de vulneración del *derecho a la propia imagen*, recogido en el artículo 18 de la Constitución. Además, el Código Penal tipifica este delito en el artículo 401 y está penado con hasta tres años de prisión.

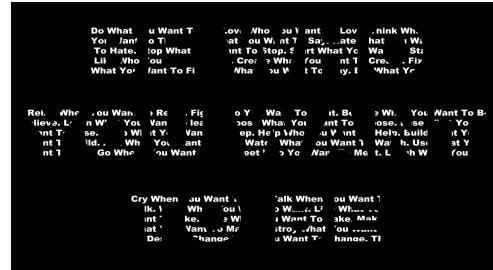


How do I get verified with a "✓"?

"✓" is an emoji, only for lulz. There is no verification on Mastodon. You can copy and paste "✓" into your bio if you wish, you cheeky monkey.

How do I prevent people from impersonating me?

Because anyone can create a username on any instance, it is impossible to prevent others from using the same username on another instance. Some people have taken to running their own single-user instance to verify themselves, or use [Keybase](#).



# 3. Impersonation

octodon.social/@Mareano\_Rajoy

UNIDOS CONTRA EL TERRO

Mareano Rajoy Brey ✓  
@Mareano\_Rajoy

TOOTS 9	SIGUENDO 0	SEGUIDORES 0	Presidente del Gobierno y del @PPPopular. Cansado, padre de dos hijos. Trabajo.
------------	---------------	-----------------	---

Mareano Rajoy Brey ✓ @Mareano\_Rajoy hace 23 segundos "Es el vecino el que elige al alcalde y es el alcalde el que quiere que sean los vecinos el alcalde."

Mareano Rajoy Brey ✓ @Mareano\_Rajoy hace 1 minuto "Le va a subir el IVA a este niño que venía aquí! ¡Los chuches! ¡Va a subir el IVA de los chuches!"

Mareano Rajoy Brey ✓ @Mareano\_Rajoy hace 5 minutos "Me gustan los catalanes porque hacen cosas"

Mareano Rajoy Brey ✓ @Mareano\_Rajoy hace 6 minutos "La segunda, ya tal..."

Mareano Rajoy Brey ✓ @Mareano\_Rajoy hace 6 minutos "Una cosa es ser solidario, y otra es serlo a cambio de nada"

Mareano Rajoy Brey ✓ @Mareano\_Rajoy hace 7 minutos "Exportar es positivo porque vendes lo que produces"

Mareano Rajoy Brey ✓ @Mareano\_Rajoy hace 8 minutos "Viva el vino"

Mareano Rajoy Brey ✓ @Mareano\_Rajoy hace 10 minutos "It's very difficult todo esto"



# NAVAJA NEGRA CONFERENCE



Navaja Negra 2017 es un usuario en [mastodon.cloud](#). Puedes seguirlo(a) o interactuar con el o ella si tienes una cuenta en cualquier parte del fediverse. Si no tienes una, puedes [registrar aquí](#).

Seguir



## Navaja Negra 2017

@NavajaNegra@mastodon.cloud

Navaja Negra. Congreso de seguridad informática que se celebra en la ciudad de Albacete del 5 al 7 de octubre y que incluye ponencias, talleres y demos.

90  
Toots

0  
Siguiendo

1  
Seguidores

TOOTS

TOOTS WITH REPLIES

MEDIA

Pinned toot



Navaja Negra 2017 @NavajaNegra  
Hello Mastodon!

anteayer



Navaja Negra 2017 @NavajaNegra  
Y ahora "EL FOOTPRINTING HA MUERTO, ¡LARGA VIDA AL FOOTPRINTING!" Con  
@R\_a\_ff\_a\_e\_ll\_o @ffranz #nn7ed t.co/xbpJk9DnFr

hace 1 hora



Navaja Negra 2017 @NavajaNegra  
RT @0xWORD: Hoy estaremos en la #nn7ed hasta las 14:00 horas. No te olvides de tu  
ejemplar hoy!

hace 1 hora



Navaja Negra 2017 @NavajaNegra  
RT @InnoTerSystem: Comienza Navaja Negra con el mejor equipo @navajanegra .ah

hace 1 hora



# 3. Impersonation

**mastodon**

Iniciar sesión Acerca de esta instancia Otras instancias

¿Qué es social.treysatvincent.fr?

Instance personnelle.

Pour me contacter : <https://nino.link/contact>

–

[@nino@social.treysatvincent.fr](mailto:@nino@social.treysatvincent.fr)

Tenemos 1 usuarios registrados

Que han escrito 94 estados

Conectado a 233 otras instancias

Contacto: N/A

 Nino  
@nino

**mastodon**

Iniciar sesión Acerca de esta instancia Otras instancias

¿Qué es don.archae.me?

Personal instance of @normandy.

Tenemos 1 usuarios registrados

Que han escrito 1.045 estados

Conectado a 508 otras instancias

Contacto: normandy@firemail.cc

 Normandy  
@Normandy



# 3. Impersonation



**social.Oday.agency**

Oday Agency - where your 0days fail and the world ends.

Tenemos <b>26</b> usuarios registrados	Que han escrito <b>105</b> estados	Conectado a <b>291</b> otras instancias
--	--	---

CONTACTO

wirehack7 @wirehack7

Correo de negocio: wirehack7@protonmail.ch

ENLACES

Comenzar Iniciar sesión



We don't care.  
We forget it.  
We don't know it.  
Don't expect it.



Inicio Momentos Notificaciones Mensajes



**marfus** @wirehack7

IT Sec buddy. Plague doctor to malware and scums, curing the pest since 2013 w/ #MalwareMustDie

OSINT capsop.com Se unió en agosto de 2009

**Twittear a marfus**

Tweets 4.818 Siguiendo 437 Seguidores 1.267 Me gusta 580

**Tweets** **Tweets y respuestas** **Multimedia**

**marfus** Tweet fijado · 12 abr. 2014 Hey #malware #moronz, here is a message for #MalwareMustDie /cc: @MalwareMustDie

Traducir del inglés



Markus R.

Malware analysing, punishing bad boys.  
Coding stupid code and stroking cats.  
Germany

[keybase.io/wirehack7](http://keybase.io/wirehack7)

3 devices  
3A7A B32B EDE7 8FD5  
wirehack7 tweet  
wirehack7 gist  
wirehack7 post  
0day.agency dns  
capsop.com dns

PGP Encrypt

Keybase Chat



Telegram

Markus última vez recientemente

Search: wirehack7

Búsqueda global

Markus @wirehack7

Aún no hay mensajes...

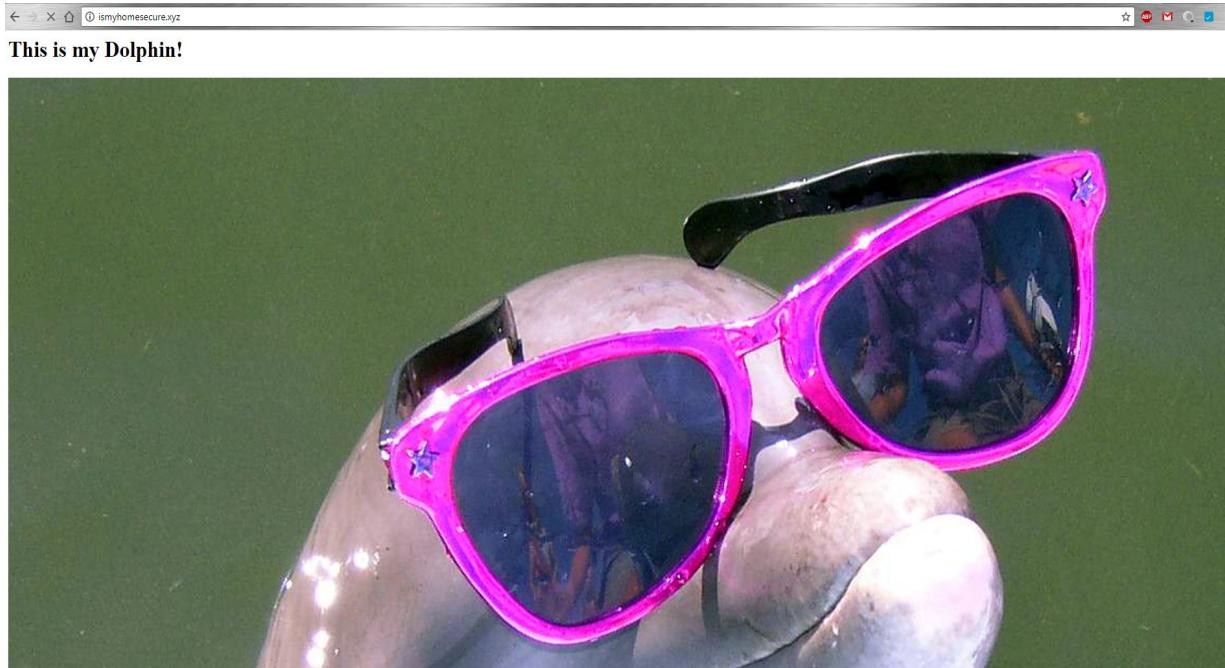


wirehack7

http://designFlut.com

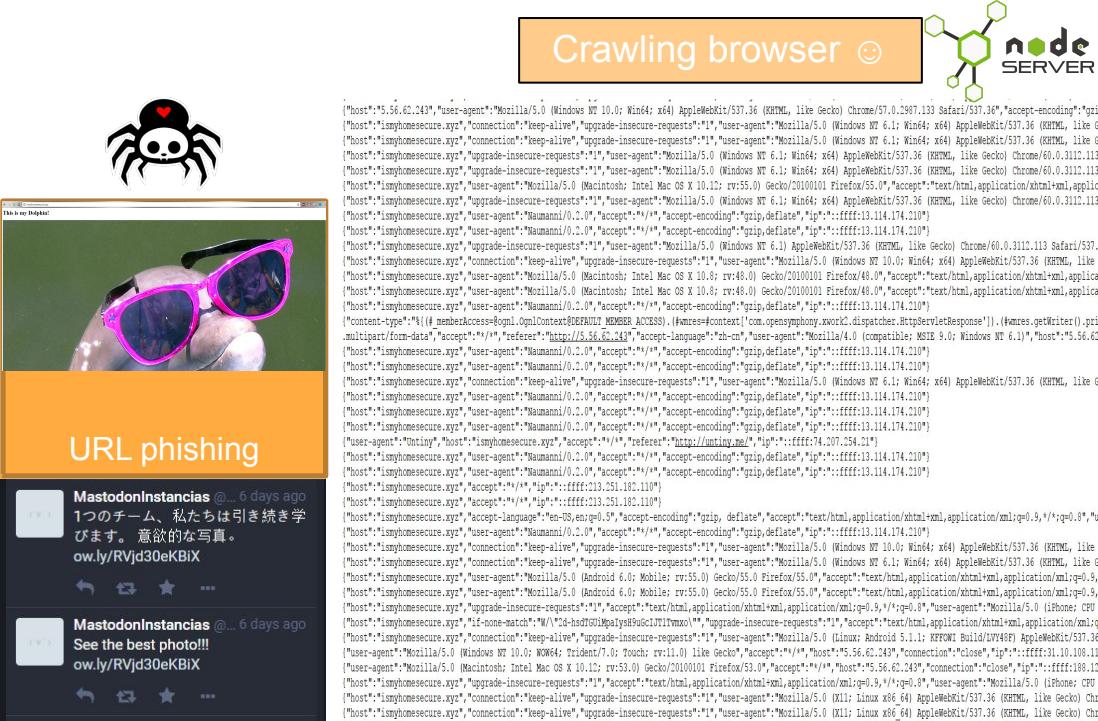
Suscribirse

# 4. Phishing masivo



- MastodonInstancias @... 6 days ago  
1つのチーム、私たちは引き続き学びます。意欲的な写真。  
[ow.ly/RVjd30eKBiX](http://ow.ly/RVjd30eKBiX)
- MastodonInstancias @... 6 days ago  
See the best photo!!!  
[ow.ly/RVjd30eKBiX](http://ow.ly/RVjd30eKBiX)

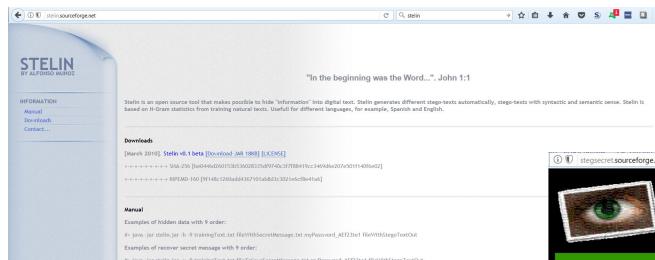
# 4. Phishing masivo



Sending 1 single message per instance -> 4781 requests

# 5. Covert channels in Mastodon

- **Toots 500 characters** □ Linguistic/Textual steganography
- **Images, audio and video:** The default limit is 8 megabytes.
- **Multiple instances & thousands of users:** Matrix Embedding, Distribution, ...
- **MLS (Multi-Level Steganography)...**
- **Typical tools:** <http://www.jitc.com/Steganography/tools.html>
- Example: **Stegodolphy** ☺



In the beginning was the Word... John 1:1

Stelin is an open source tool that makes possible to hide "information" into digital texts. Stelin generates different stego-texts automatically, stego-texts with syntactic and semantic sense. Stelin is based on N-Gram statistics from training natural texts. Useful for different languages, for example, Spanish and English.

Downloads

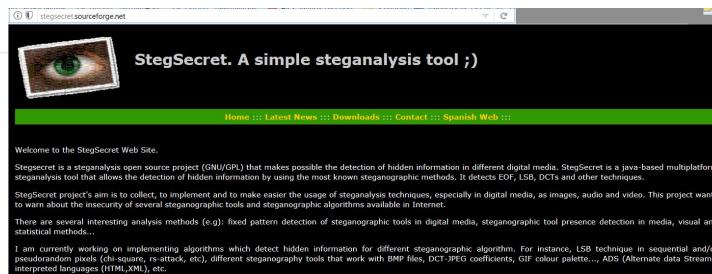
[March 2010] Stelin v5.1 beta [Download] [81 KB] [XLSX]

REPLAIN-160 [19.16KB] [250x420x327x31x1ab2d3c322x1efcbe1e]

Manual

Downloads

Contact...



StegSecret. A simple steganalysis tool ;)

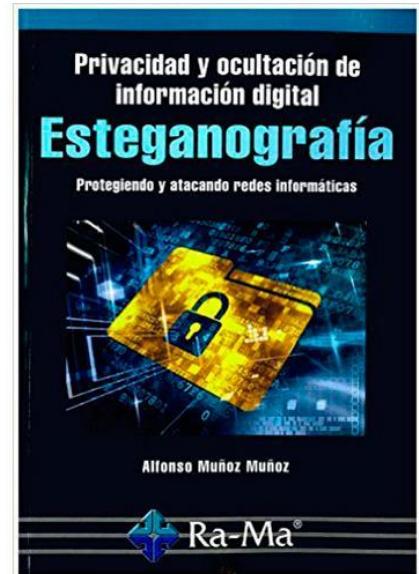
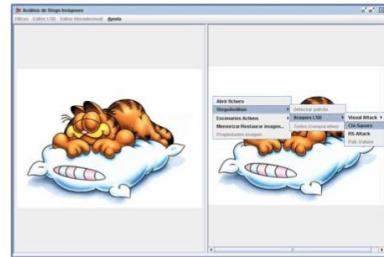
Welcome to the StegSecret Web Site.

StegSecret is a steganalysis open source project (GNU/GPL) that makes possible the detection of hidden information in different digital media. StegSecret is a java-based multiplatform steganalysis tool that allows the detection of hidden information by using the most known steganographic methods. It detects EOF, LSB, DCTs and other techniques.

StegSecret project's aim is to collect, to implement and to make easier the usage of steganalysis techniques, especially in digital media, as images, audio and video. This project wants to warn about the insecurity of several steganographic tools and steganographic algorithms available in Internet.

There are several interesting analysis methods (e.g): fixed pattern detection of steganographic tools in digital media, steganographic tool presence detection in media, visual and statistical methods...

I am currently working on implementing algorithms which detect hidden information for different steganographic algorithm. For instance, LSB technique in sequential and/or pseudorandom pixels (chi-square, rs-attack, etc), different steganography tools that work with BMP files, DCT-JPEG coefficients, GIF colour palette..., ADS (Alternate data Stream) interpreted languages (HTML, XML), etc.



Privacidad y ocultación de información digital

**Esteganografía**

Protegiendo y atacando redes informáticas

Alfonso Muñoz Muñoz

Ra-Ma®



# 5. Covert channel in Mastodon



**Easy covert channel for NavajaNegra ☺**

Dolphin Alphabet: e, E

Toot (max): 500 characters

Hidden capacity:

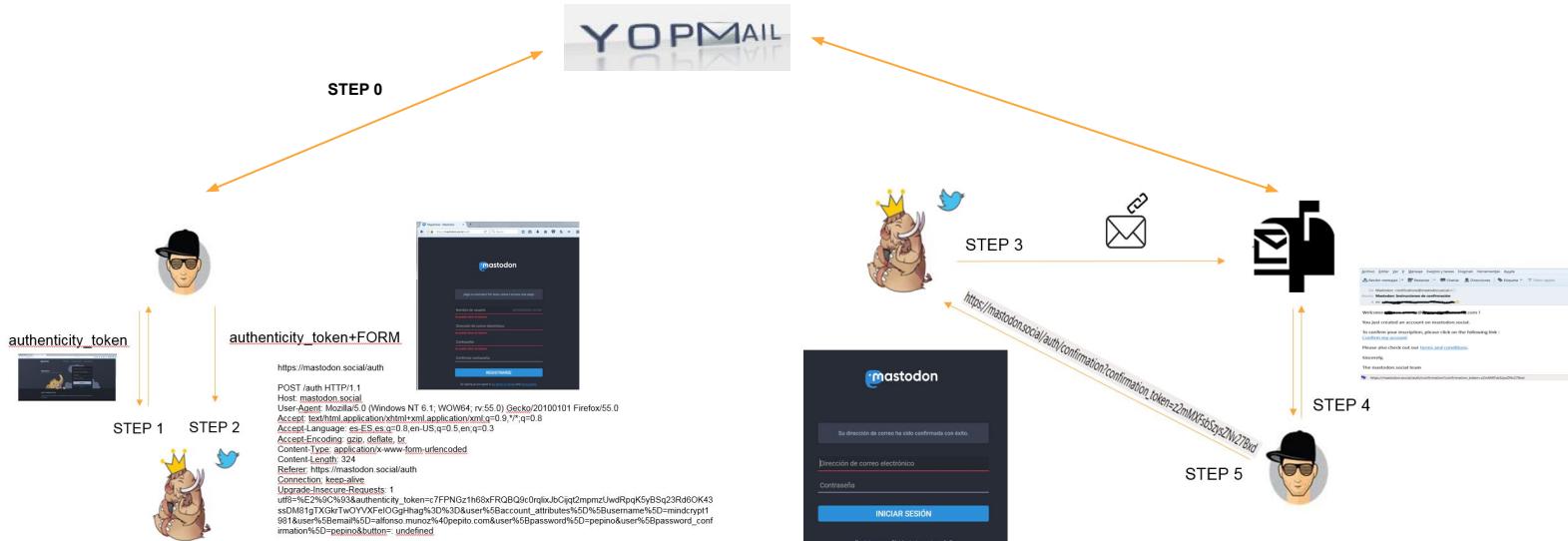
$$VR2,500 = 2^{500} \quad \square \quad \log_2(2^{500}) = 500 \text{ bits per toot}$$

**Examples:**

Custom alphabet (64 char:6 bits/char)

1 toot / 83 char (url, gps coords, C&C, IPS, telephone number, Short message, password...)

# 6. Creating multi-users per instance - DoS/SPAM



1. GENERATE NEW EMAIL ACCOUNT
2. GET HTTP
3. TAKE ACCESS\_TOKEN
4. SEND ACCESS\_TOKEN + FORM WITH THIS NEW EMAIL
5. RECEIVE CONFIRM EMAIL
6. SEND GET TO THE URL INSIDE MAIL

\* Mastodon doesn't support removing accounts ☺

# 6. Demo: Mastodon DoS

The screenshot shows a Mastodon instance running on `dolphin.town`. The interface includes a sidebar with user information (e2839), a navigation bar with Home, Notifications, and Local timeline tabs, and a main content area displaying four posts from user e2839. Each post consists of a profile picture, the author's name, the time ago, and a large amount of the character 'e'. The posts are identical:

e2839 @e2839 7 days ago  
eEeeEEEEeeeeEEEEEeeeeeee  
eeeeeeEEEEEEEEEeeeeeee  
EEE ow.ly/RVjd30eKBiX

The notifications panel shows no notifications. The local timeline shows one post from 'The Black Dolphin' (profile picture of a black dolphin) 19 minutes ago, which contains a similar pattern of the character 'e'.

```
u@u:~/Downloads$ java -jar DemoMastodon.jar http://dolphin.town
```



## 7. Countermeasures & Conclusions

- We love mastodon ☺
- Security techniques are needed to protect the infrastructure and avoid the abuse of automatization (API restriction / Captcha).
- The future is non-commercial social media.
- Security is also a problem with open-source alternatives, not only with big companies.
- “OSINT friends”.



# Espiando redes de microblogging. El caso de la red Mastodon



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@mindcrypt



**Miguel Hernández**  
@MiguelHzBz

