



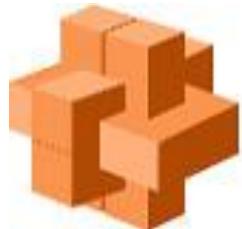
# Carreira e software livre, como funciona?

Fernando Fagonde





## Patrocínio



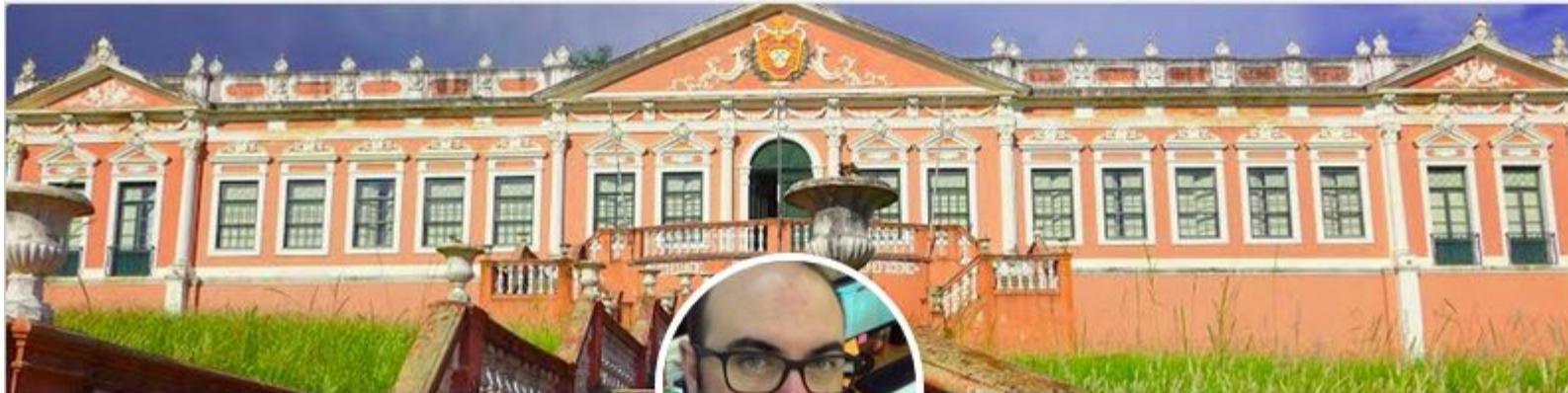
## Realização



## Apoio



# Who am I?



Fernando Fagonde

Analista de Sistemas Sênior

Universidade da Região da Campanha • Universidade da Região da Campanha - URCAMP

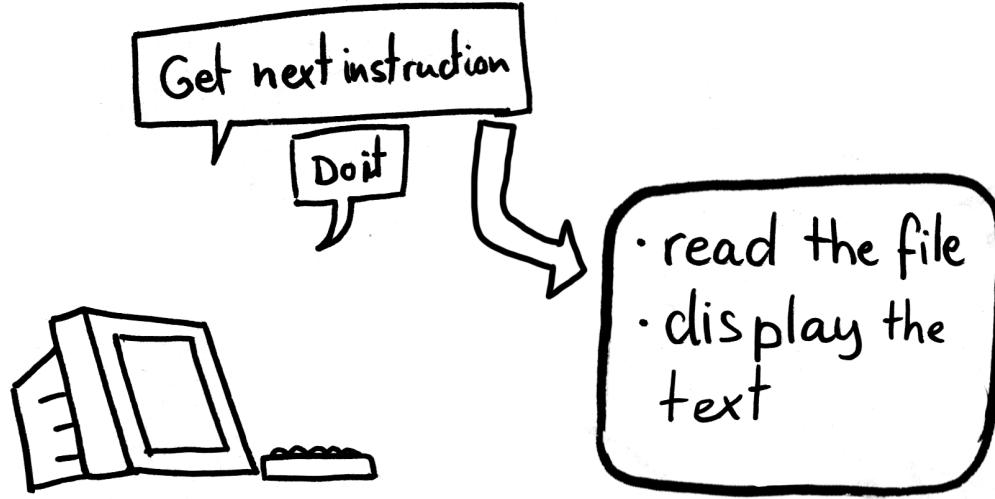
Bagé, Rio Grande do Sul, Brasil • + de 500 &

O que é software  
livre?

LIBRE not GRATIS

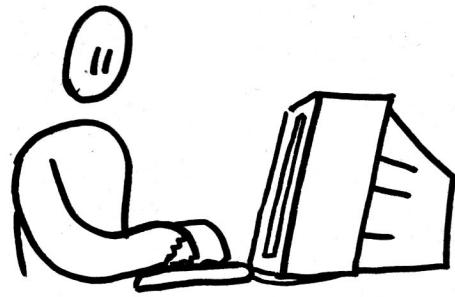
\*free speech not free beer

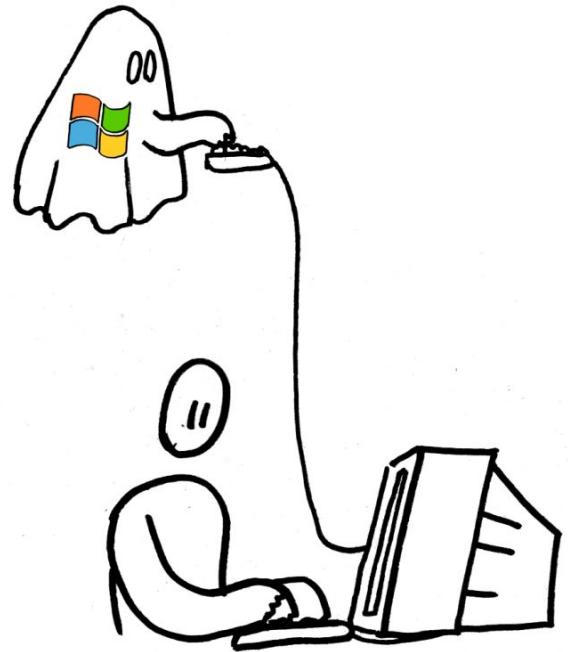


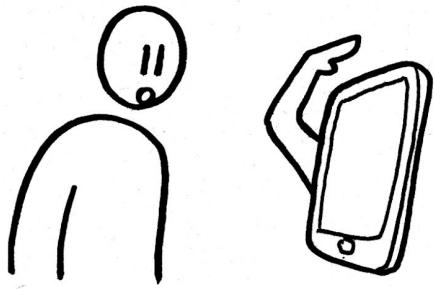


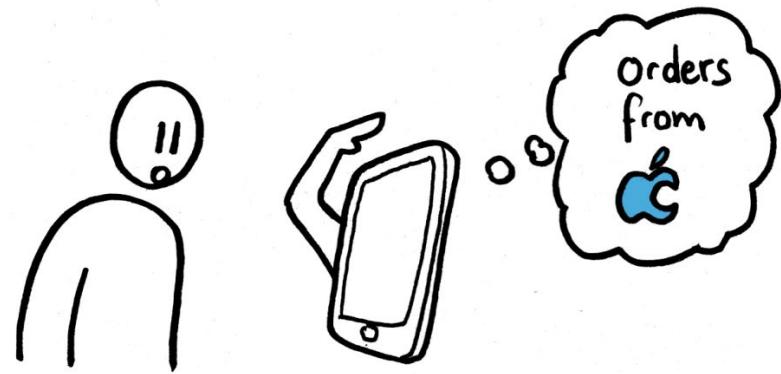


**Quem dá instruções para o seu  
computador?**

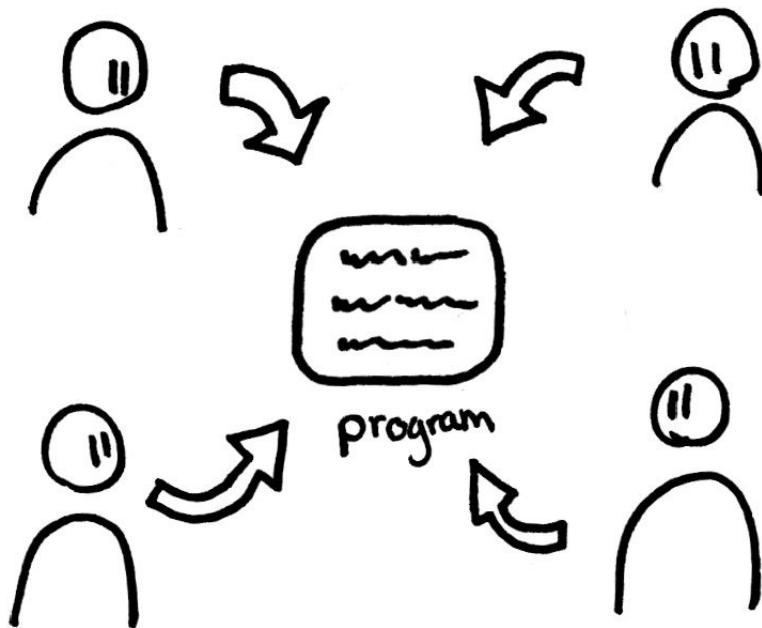




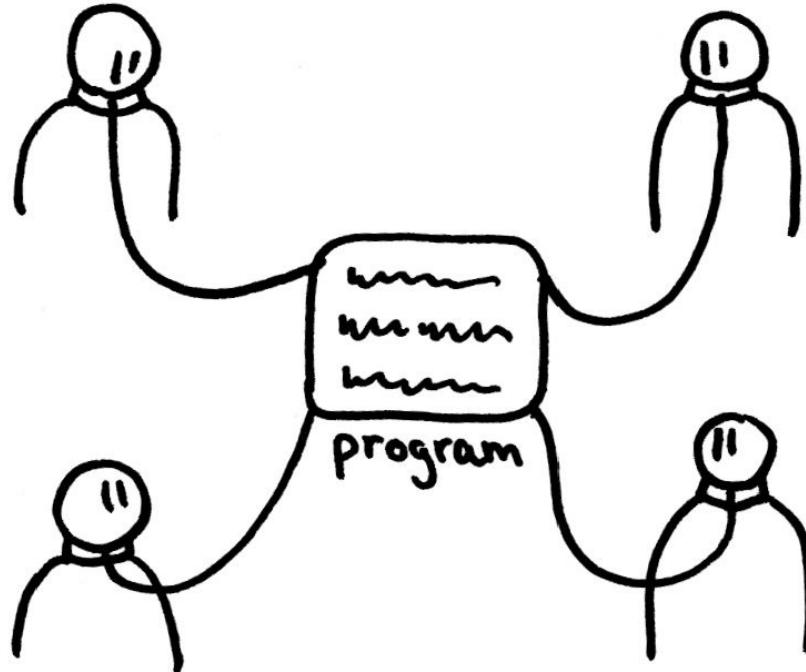




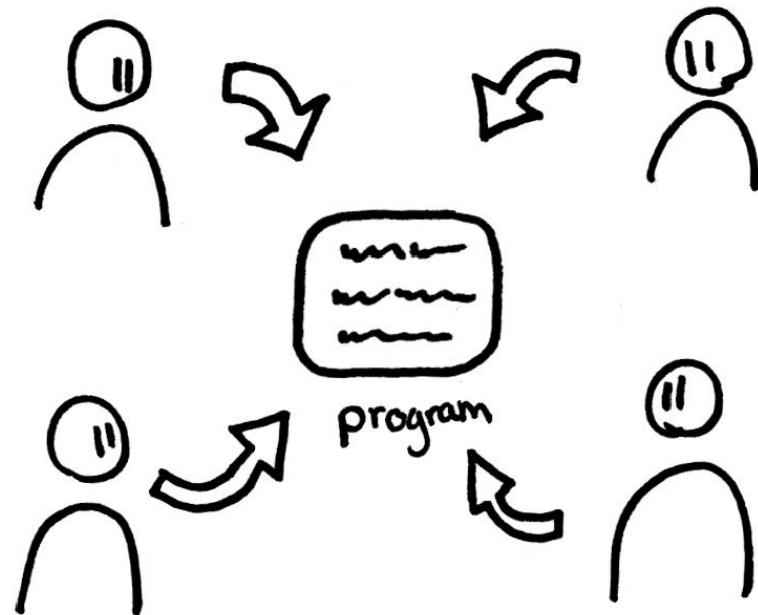
# Users control the program



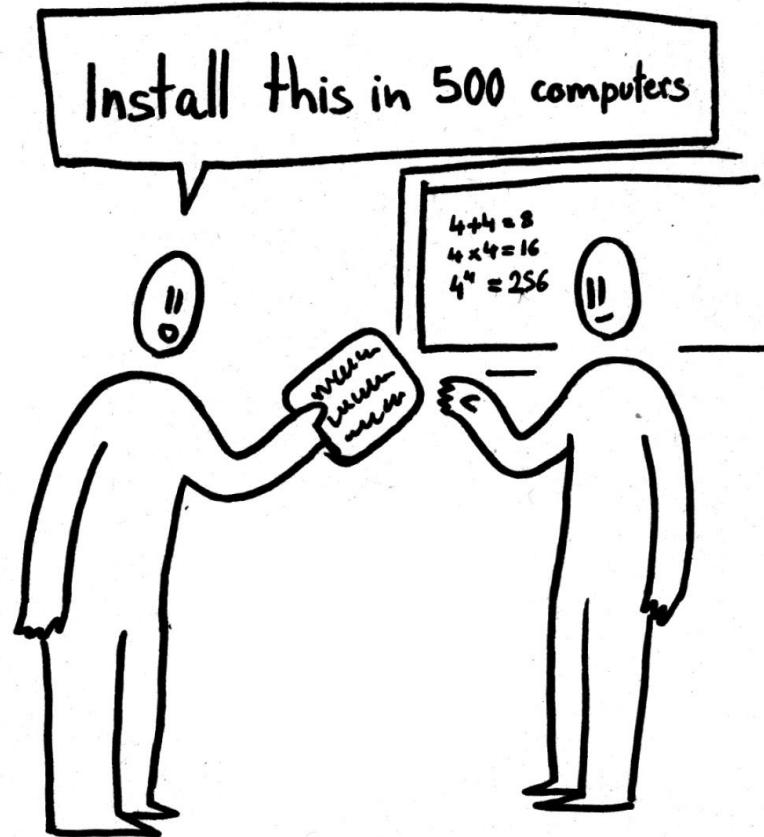
# The program controls the users



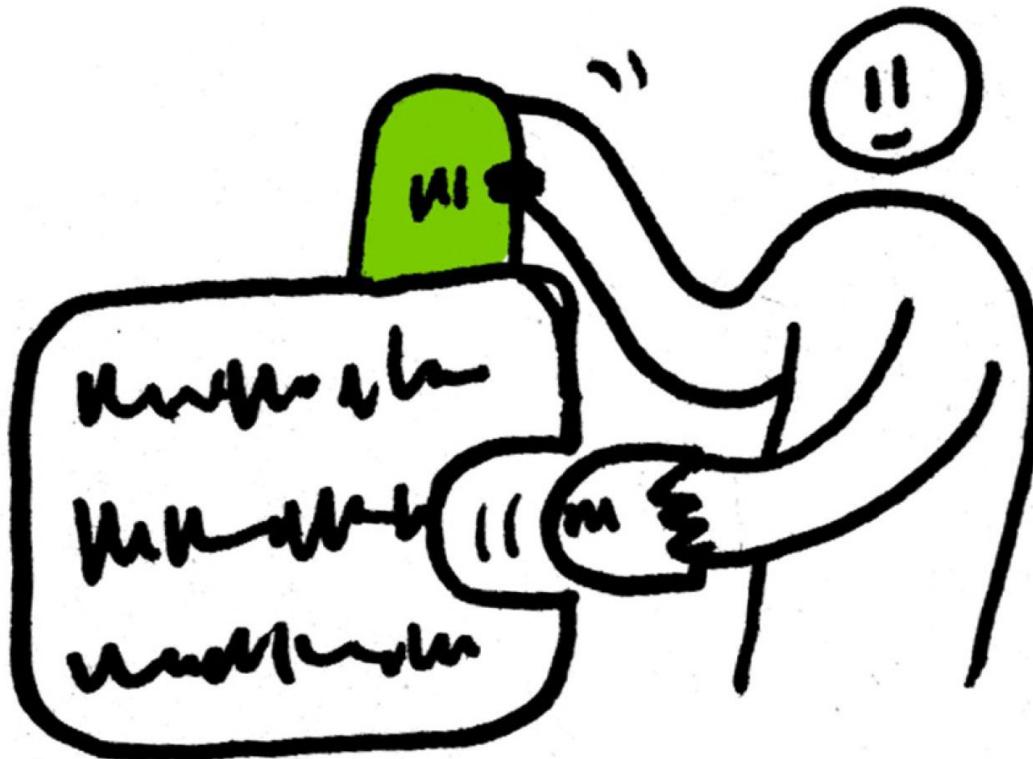
# Freedoms 0, 1, 2, 3



Freedom 0  
Run it

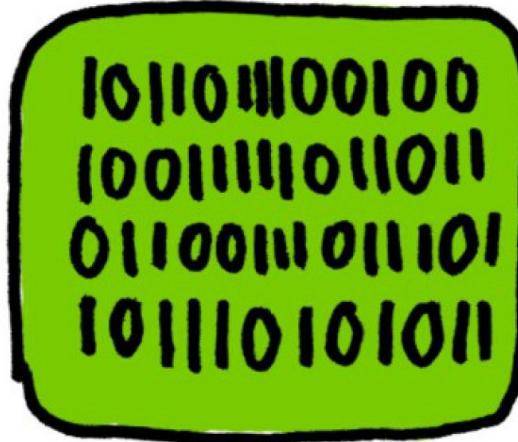


# Freedom 1 – change it



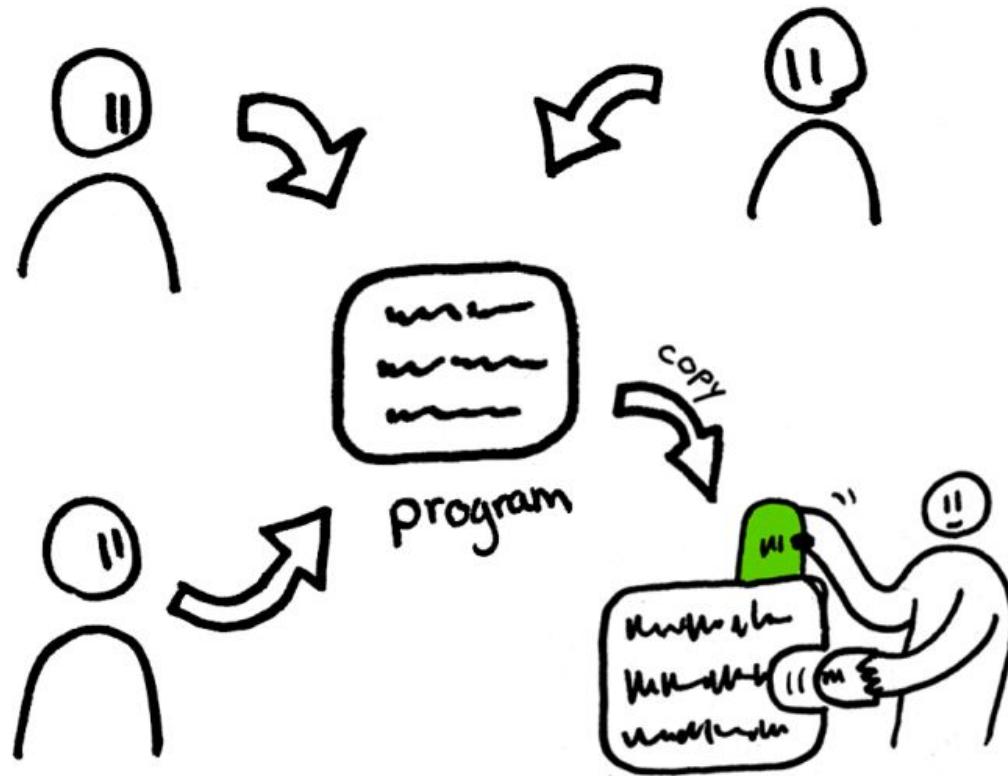
```
main ()  
{  
printf ("Hello,  
world!\\n");  
}
```

Source



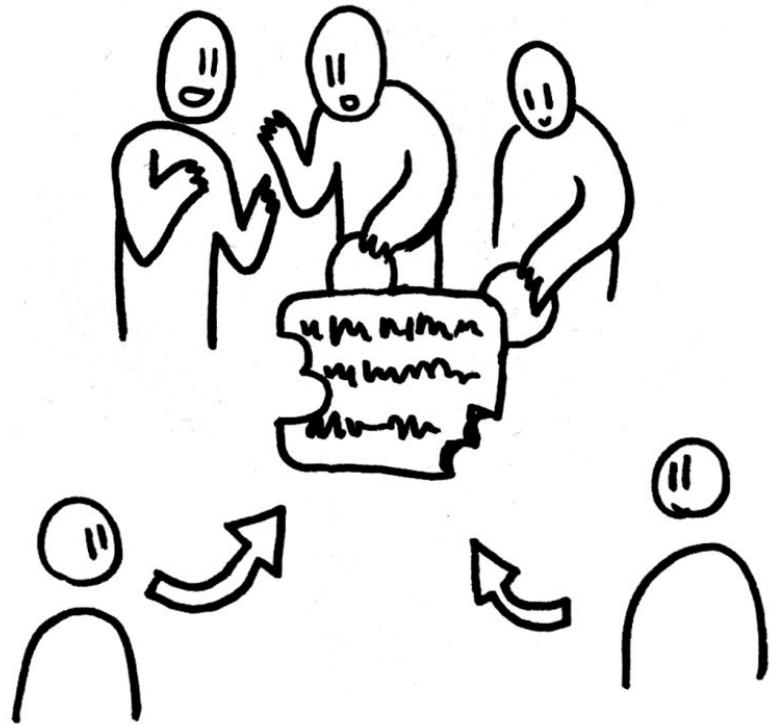
```
101101100100  
1001111011011  
0110011011101  
1011101010111
```

Executable



# Not a programmer ?







Freedom 2  
Redistribute it



Freedom 3  
Redistribute  
with changes



FREE SOFTWARE  
FOUNDATION



# FreeSoftware TEDx slides

Copyright 2014 Christian Noguera, Valentin  
Pasquier, Richard Stallman  
Released under CC-BY 3.0 license



The Free Software Foundation (FSF) is a nonprofit with a worldwide mission to promote computer user freedom. We defend the rights of all software users.

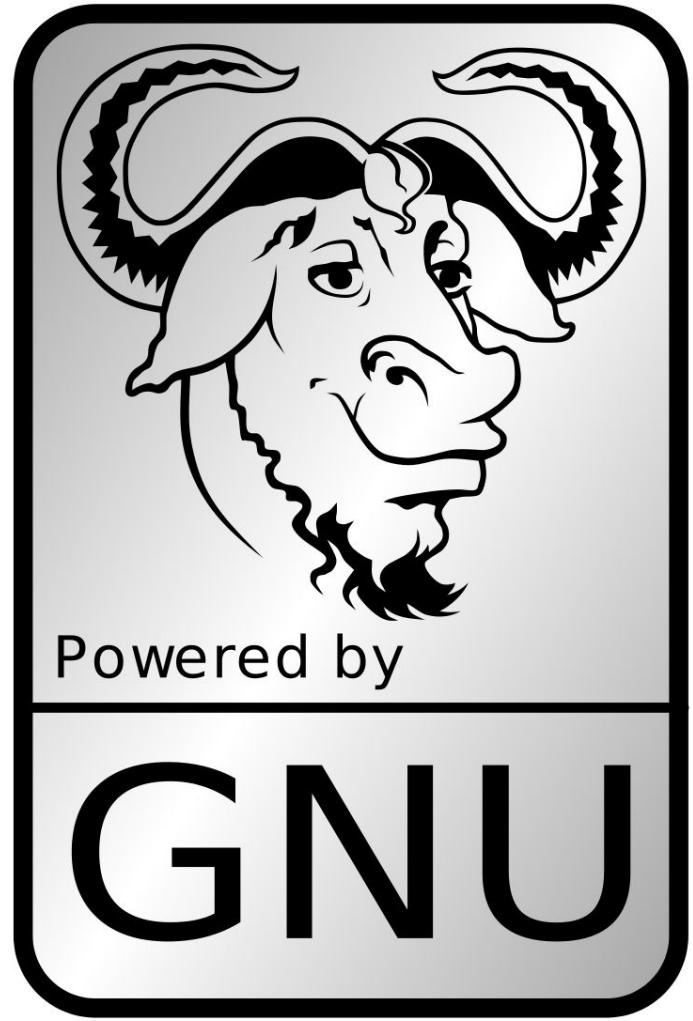
<https://www.fsf.org>

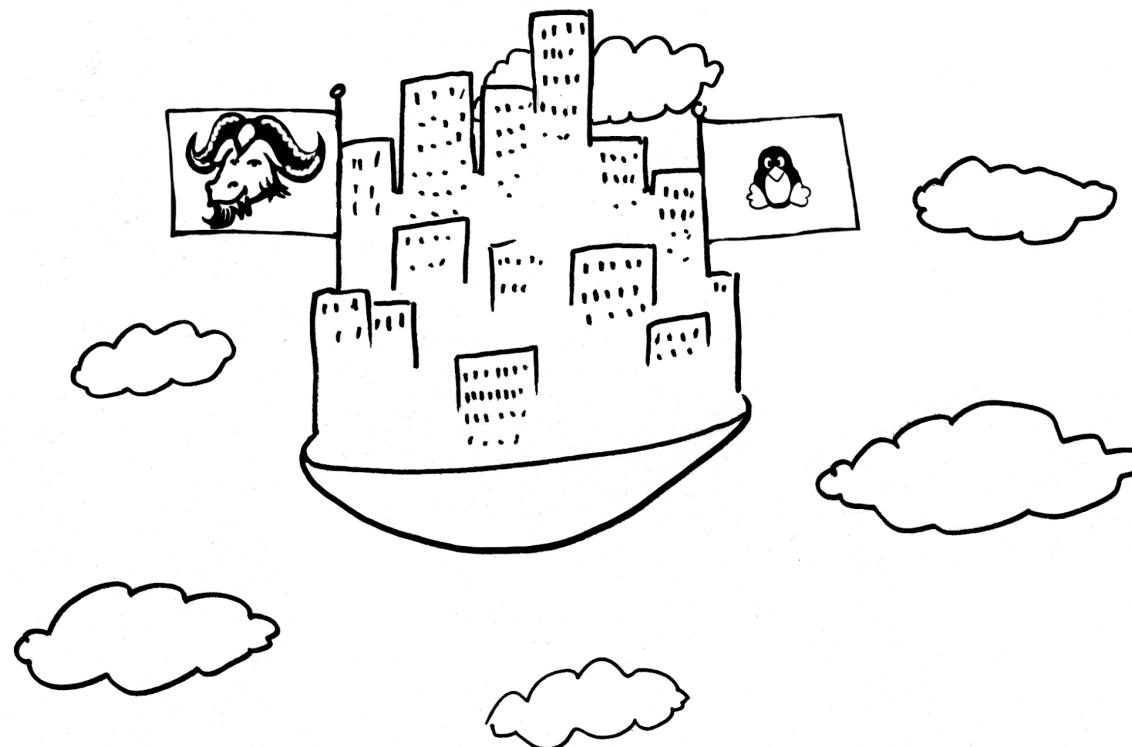
---

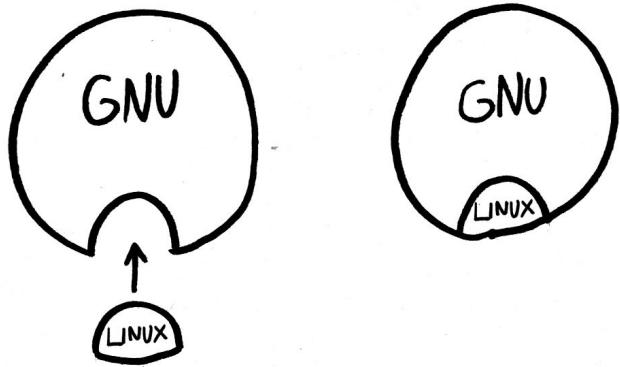




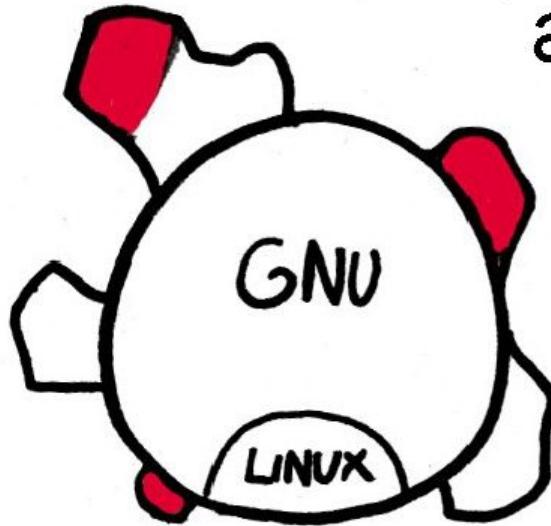
O **gnu** é um grande mamífero ungulado do gênero ***Connochaetes***, que inclui duas espécies, ambas nativas do continente africano. Também é conhecido como **boi-cavalo** (e, em Moçambique, **cocone**).<sup>[1]</sup> Há duas espécies de **gnus**: o gnu-de-cauda-branca (***Connochaetes gnou***) e o gnu-de-cauda-preta (***Connochaetes taurinus***).







# Non free applications



= non free programs



# Cultura

# meet the free software gang



## Welcome to the Free Software Directory

A catalog of free software for [GNU](#)-like operating systems.

**Free software** is a matter of liberty, not price. Think of "free" as in "free speech", not as in "free beer". Free software is a matter of the users' freedom to run, copy, distribute, study, change and improve the software.

16082 itens



# **Empresas que apoiam**

Facebook

Google

IBM

Amazon

Docker

Cisco

Oracle

Postgresql

Digital  
Ocean

Red Hat

Suse

MIT

MICROSOFT



Apr 2018	Apr 2017	Change	Programming Language	Ratings	Change
1	1		Java	15.777%	+0.21%
2	2		C	13.589%	+6.62%
3	3		C++	7.218%	+2.66%
4	5	▲	Python	5.803%	+2.35%
5	4	▼	C#	5.265%	+1.69%
6	7	▲	Visual Basic .NET	4.947%	+1.70%
7	6	▼	PHP	4.218%	+0.84%
8	8		JavaScript	3.492%	+0.64%
9	-	▲	SQL	2.650%	+2.65%
10	11	▲	Ruby	2.018%	-0.29%
11	9	▼	Delphi/Object Pascal	1.961%	-0.86%
12	15	▲	R	1.806%	-0.33%
13	16	▲	Visual Basic	1.798%	-0.26%
14	13	▼	Assembly language	1.655%	-0.51%
15	12	▼	Swift	1.534%	-0.75%
16	10	▼	Perl	1.527%	-0.89%
17	17		MATLAB	1.457%	-0.59%

# Oportunidades de trabalho

- Java 260 vagas
- Postgresql 93 vagas
- PHP 430 vagas
- Python 205 vagas

---

# **Comunidade**

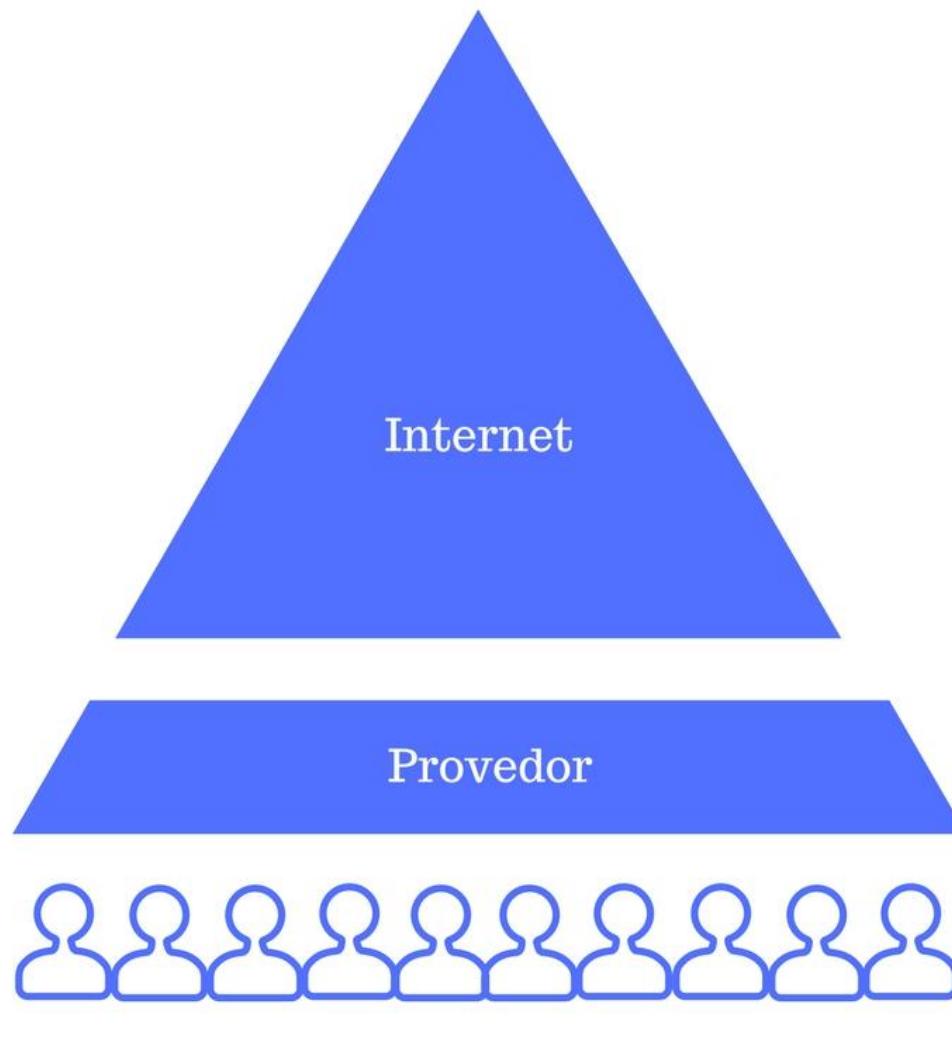
Como ajudar  
o mundo?

---



**o fim da  
internet**







**Unlimited**



**U\$ 150.00**

**+Netflix +wikipedia**



**U\$ 50.00**

**Google + Facebook**



**U\$ 10.00**

**Não tenho acesso**



**U\$ 0.00**

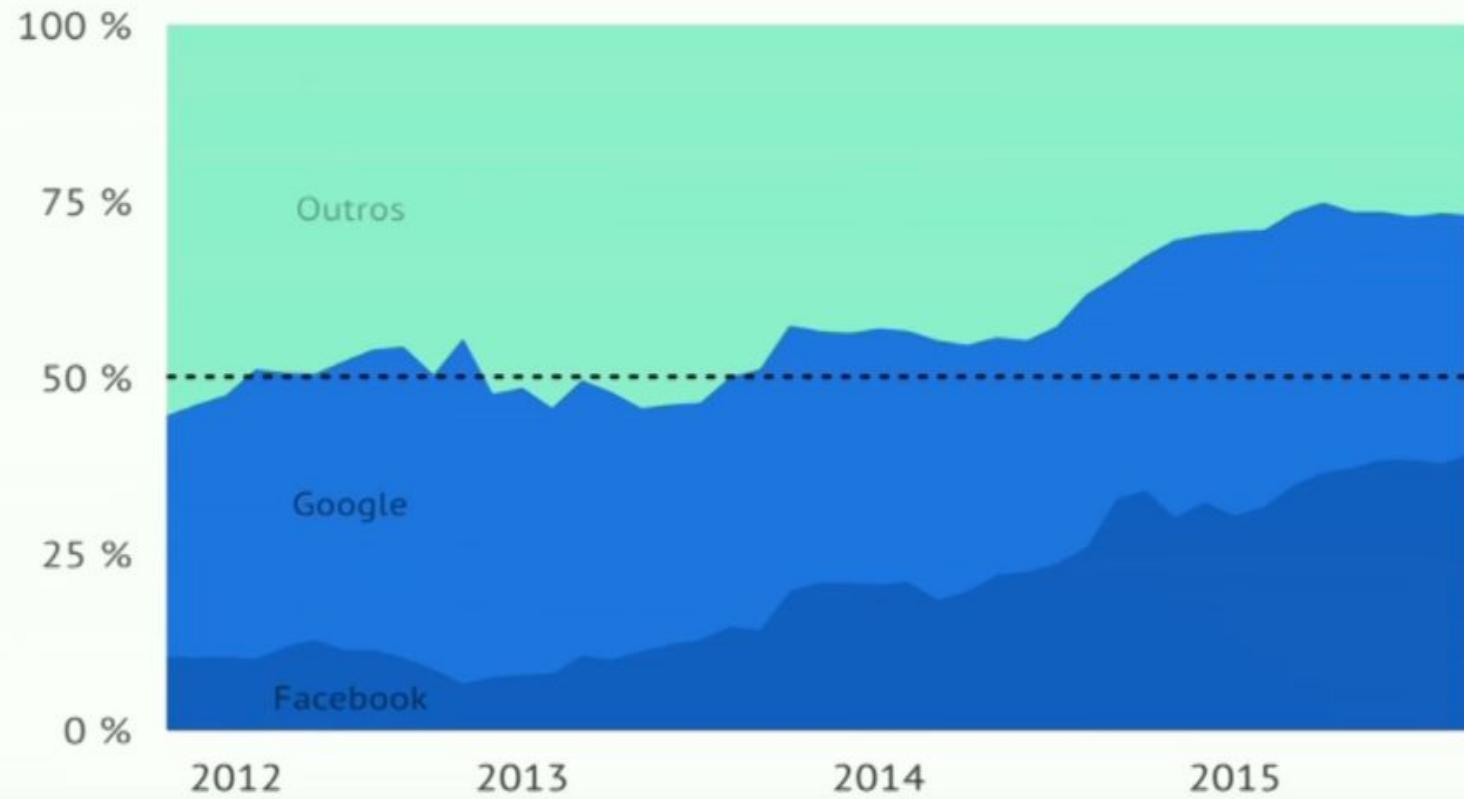
**Provedor**



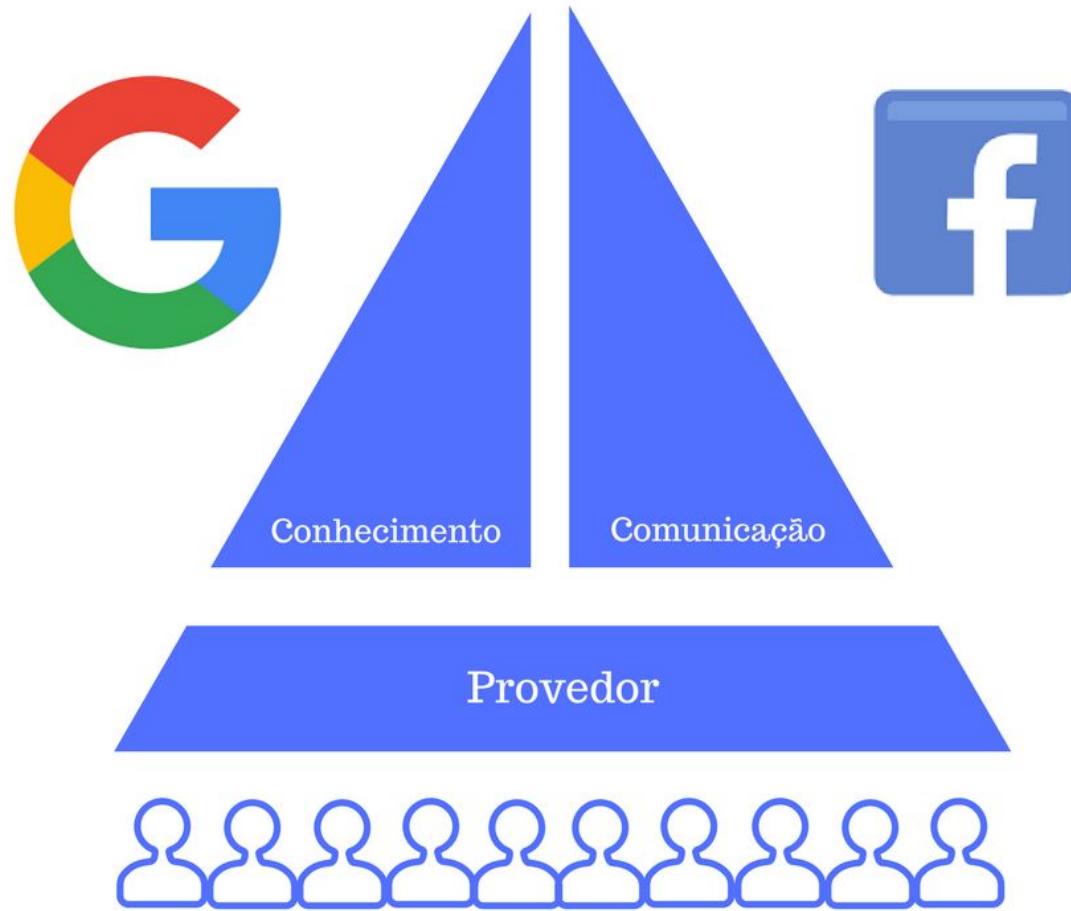
# 2014

- Google compra o deepmind
- Google fecha o orkut
- Facebook compra o whatsapp
- Facebook para de usar o Bing

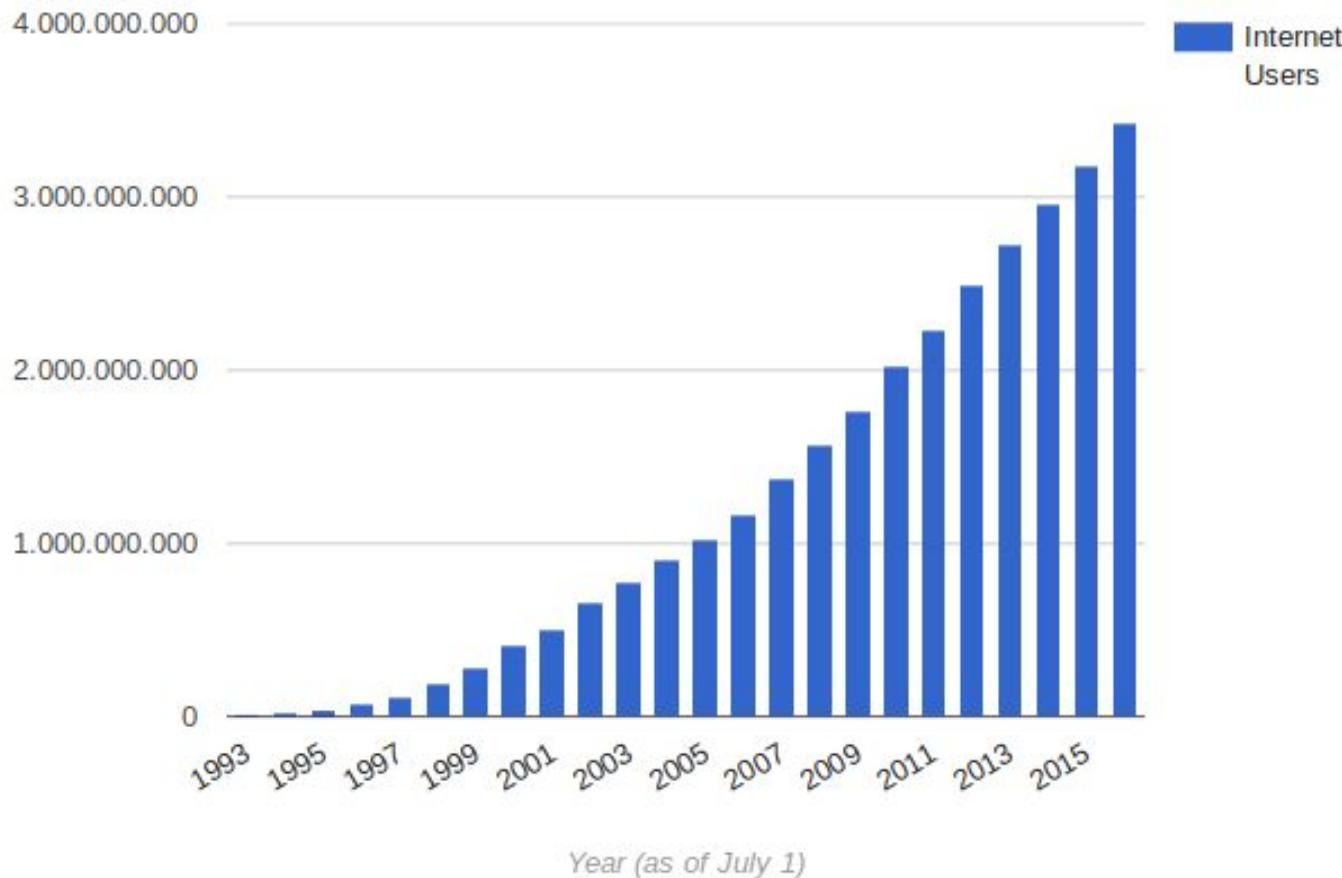
## Origem do tráfego de visitantes aos sites da mídia



fonte: <https://blog.parse.ly/post/2855/facebook-continues-to-beat-google-in-sending-traffic-to-top-publishers/>



## Internet Users in the World

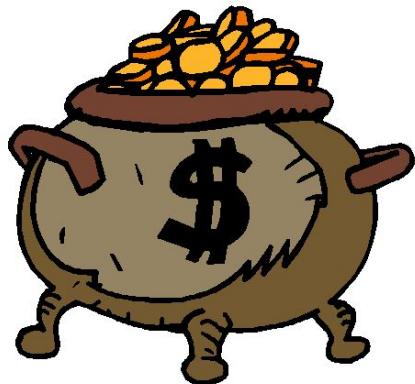


Fonte: <http://www.internetlivestats.com/internet-users/>

**3.424.971.237**

## Centralização

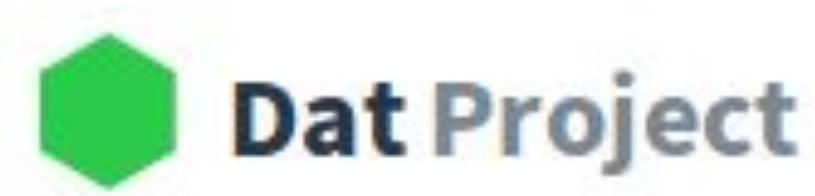
Existe algum site que não pode ser comprado pelo google/facebook?





EPOCH TIMES

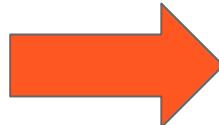




**Scuttlebutt**



<b>Aplicação</b>	FTP, HTTP, etc
<b>Transporte</b>	TCP, UDP
<b>Internet</b>	IP, ARP, RARP
<b>Rede</b>	Ethernet



<b>Aplicação</b>	FTP, HTTP, etc
<b>Transporte</b>	TCP, UDP
<b>Internet</b>	CJDNS
<b>Rede</b>	Ethernet



IPV6: DERIVADO DA CHAVE  
PÚBLICA

ROTEAMENTO: Tabela Distribuída  
entre todos os que usam



This repository

Search

Pull requests Issues Marketplace Explore



cjdelisle / cjdns

Watch 299

Star 3,552

Fork 494

Code

Pull requests 0

Projects 0

Insights

An encrypted IPv6 network using public-key cryptography for address allocation and a distributed hash table for routing.

cjdns

mesh

mesh-networks

fcp

networking

routing

dht

cryptography

hyperboria

4,709 commits

24 branches

18 releases

166 contributors

GPL-3.0

Branch: master ▾

New pull request

Create new file

Upload files

Find file

Clone or download ▾



cjdelisle Try just simplifying things

Latest commit bd6b60d on Jan 30

admin

Clean old subscription entry value

8 months ago

benc

Fixes for building on GCC versions 7.x

10 months ago

client

client/cjdroute2: added info for ETHInterface then comma changes

4 months ago

contrib

Fix privatetopublic's hexadecimal decoding.

6 months ago

crypto

Fix not working when random device is denied by selinux

6 months ago

debian

Let Debian package build without setting extra variables

7 months ago

dht

Add an assertion to guard a segfault which popped up

9 months ago

doc

Merge branch 'doc-admin-api' of git://github.com/wfleurant/cjdns into...

4 months ago

exception

links update

a year ago

interface

Add support for configuring DSCP

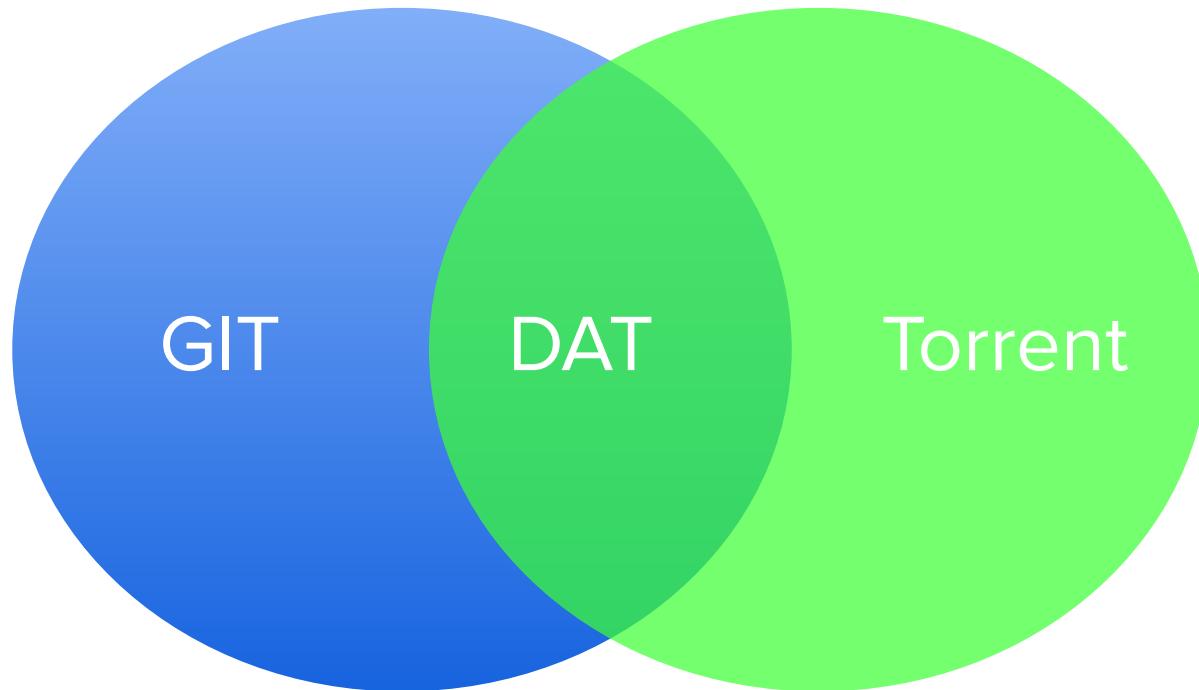
7 months ago



**Dat Project**

Criado para  
pesquisadores  
compartilharem seus  
dados.

---



## Rethink the Web browser

Beaker is a peer-to-peer browser with tools to create and host websites. Don't just browse the Web, build it.

[▶ Watch the video](#)[Install Beaker !\[\]\(5ac3086483c0adb44d83d000c5b59c1b\_img.jpg\)](#)[View source ›](#)

Check out Beaker's development and source code on GitHub.

[Dat white paper ›](#)

Learn about Dat, the peer-to-peer protocol that powers Beaker.

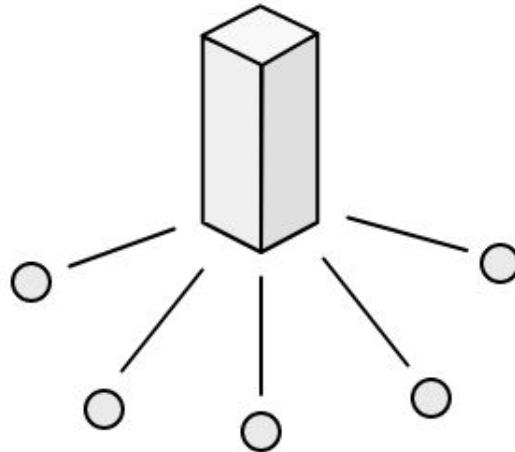
[Documentation ›](#)

Learn about Beaker's APIs, architecture, and mission.

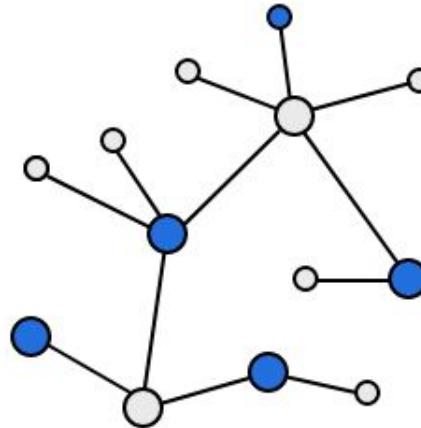
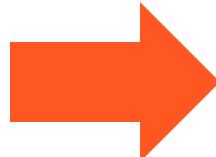
100% Javascript

# It's time for a better Web

The Web's original design enshrined its core values: to be *open, free, and highly connected.*



**But the Web's design has fallen short.** We rely on services to provide applications, which locks us into closed infrastructure.



**Beaker rethinks the Web** as a peer-to-peer network, where users own their data and run applications independently.



FLISoL



SECURE



**Scuttlebutt**

Protocolo para redes Sociais



Public

Private

More ▾

Patchwork

word, @key, #channel

Profile

Mentions

[+ Join Pub](#)

## Active Channels

#cat-pics

#ssb

#new-people

#boats

#flume

#dystopia

#documentation

#patchless

[More Channels...](#)

## Connected Pubs



kas



h.transitiontech.ca



ssb.alarum.de



## Who to follow



Mayel

**dominic** ◎  
2 hours ago

3 likes

When I first saw these robots, I immediately imagined how easily they'd be defeated by teenagers. skateboard up, put a cardboard box or trashbag over it's head. Or draw comedic mustash on it.

[Unlike](#)    [Reply](#)**Neauoire** ◎  
4 hours ago

3 likes



Explored an abandoned island with @Dominic and @dangerousbeans.

**fLISoL**



This repository

Search

Pull requests Issues Marketplace Explore

ssbc / **secure-scuttlebutt**

Watch ▾

69

Star

792

Fork

59

Code

Issues 51

Pull requests 0

Projects 0

Wiki

Insights

A database of unforgeable append-only feeds, optimized for efficient replication for peer to peer protocols <http://scuttlebot.io/>

857 commits

69 branches

0 releases

15 contributors

MIT

Branch: master ▾

New pull request

Create new file

Upload files

Find file

Clone or download ▾

dominictarr 18.0.0

Latest commit 78cb3e2 6 hours ago

indexes	oops: test for private in indexes/links should have been other way ar...	12 days ago
test	test that post(...) emits encrypted messages	21 days ago
.travis.yml	update c++ on travis	3 years ago
LICENSE	initial	4 years ago
README.md	remove really wrong readme stuff	21 days ago
codec.js	codec is separate to crypto	4 years ago
config.js	use rc for config	4 years ago
create.js	hard wire codec	2 years ago
db.js	rewriting to predecrypt everything, while not leaking plaintexts	2 months ago
defaults.js	empty defaults...	2 years ago
fixtures.js	doesn't everything on so the database needs an index on it's	24 days ago

# SECURE



## Scuttlebutt

Dados organizados em uma sequencia.

“tipo” feed

Local, P2P, rede lan

—

# Sugestões

- TCC
- Projeto entre instituições de ensino - Rede Tchê Like

# Comunidade

Como ajudar  
pessoas?

---

# **Seu Giovanni**



# **Seu Giovanni**

57 litros de diesel =

181 litros de leite ou

41 dúzias de ovos ou

7 sacas de 50 quilos de milho.

---

**Agro é tech,  
agro é pop**

Criar  
soluções  
para o  
agronegócio

---



# **Mobilidade Urbana**

Parada de ônibus  
inteligente;

Estacionamento da 7 de  
setembro;

---

# **Problema da água**

Soluções para o consumo  
inteligente;

Armazenamento da água  
da chuva dos telhados;



# Eletricidade

Etc...

**Comunidades e  
projetos de  
software livre  
podem ser o  
caminho.**

**Contribua, ajude,  
pesquise, crie,  
resolva  
problemas do  
seu bairro...**



**Da sua idéia,  
pode surgir um  
novo prêmio  
nobel.**



@fernandofagonde

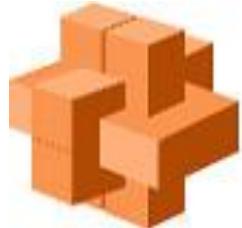


fernandofagonde@urcamp.edu.br

Muito  
Obrigado!



## Patrocínio



## Realização



## Apoio

