



Freenet Nutzen

Technische Lösungen für freie Kommunikation im Internet

Arne Babenhausnerheide | 10. Februar 2015

brick through the starbucks window

Index

an account's Blog

Capitalism, Theory and Practice

Arne (Drak) Babenhausnerheide Testing Freenet: A drake

Through actually it already rocks!

Arne (Drak) Babenhausnerheide (Drak) Tester: Robin S. Wood

are some ways how this can be done. but even without that, this site is still so hard to use - Click submit - Comment - Toggle Printer - Link - Delete

NERDAGEDDON

Created: 2014-09-01

Welcome to Nerdageddon, where we aim to bring you a list of all freenets, both old and new which are still a presence here outside the one which Listaggregation blogs or puts up, and those which are not but you can find, or new sites will appear here until I remove them to ensure that the index is even if I do not get to check the sites.

If you see the single description for a particular freenet does not give sufficient warning about content to trust what on some or to the relevant FMC board, if Listaggregation changes the freenet's host content.

Use the KeyMiles plugin to extract all sites which generate this site.

skud - A wiki/wiki of russia, uk, canada, math, and language - By Randall Monroe

Index - Miscellaneous

House of Cards

RFC Log

Minizires

Erin's Index

Freenet statistics

Alexjankin

Programming

Freenet Statistics

Korean Pop Music Chart

M&M's Data

Index - Monogamous Plug

Index - Something Salak





Warum?

Technik

Lösungen

Eine Vision

I worry about my child and the Internet all the time, even though she's too young to have logged on yet. Here's what I worry about. I worry that 10 or 15 years from now, she will come to me and say 'Daddy, where were you when they took freedom of the press away from the Internet?' –Mike Godwin, Electronic Frontier Foundation, "Fear of Freedom" (1995)

Analoge Kommunikation



Im Überwachten Netz

Vertraulich



Im kleinen Rahmen
Direkter Kontakt

Offiziell



Selbstzensur
Fremdbestimmt

Pseudonym



Stetig auf der Hut
Quellenschutz!



Analoge Kommunikation



Im Überwachten Netz

Vertraulich



Im kleinen Rahmen
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“There is now no shield from forced exposure. . . The foundation of Groklaw is over. . . the Internet is over” –Groklaw, Forced Exposure (2013-08-20)

Zusammenfassung



Warum?

- Im Überwachten Netz wird Selbstzensur zur Pflicht.
- Zweite Chance dank Snowden.



Lösungen

Technik

Eine Vision



Vertraulich



Darknet Nachrichten

- Infrastruktur
- Unsichtbar
- Mit Bekannten

Freemail

- Perfect Forward Security
- Web of Trust



Vertraulich



Darknet Nachrichten

- Infrastruktur
- Unsichtbar
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Vertraulich



Darknet Nachrichten

- Infrastruktur
- Unsichtbar
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Freemail

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- Web of Trust

Pseudonyme Kommunikation in Freenet



„Sozial“

- Foren
- Microblog
- Programmieren

Klassisch

- Dateien/Ordner
- Webseiten
- E-Mail
- Blogs

Pseudonym



Pseudonyme Kommunikation in Freenet



„Sozial“

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Kommunikation in Freenet



Vertraulich



Offiziell



Pseudonym



praktisch genutzt

Darknet Nachrichten



My Friends (trusted peers added by me)

Nickname for this node: ArneBab [\[Change\]](#)

| | Status | Name | Trust level |
|--------------------------|------------------|------------|-------------|
| <input type="checkbox"/> | CONNECTED | [REDACTED] | NORMAL |
| <input type="checkbox"/> | CONNECTED | [REDACTED] | NORMAL |
| <input type="checkbox"/> | NEVER CONNECTED* | [REDACTED] | NORMAL |

Send N2NTM to selected peers

Change trust to

Change visibility to

Send Node to Node Text Message

Composing N2NTM to send to the following peers:

[REDACTED]

You may attach a file, but you don't have to.
Upload a file from disk:

Node to Node Text Message 2 from [REDACTED]

From [REDACTED] composed 18.09.14 23:05 | sent 18.09.14 23:05 | received 18.09.14 23:05

I still hope [REDACTED]

Node to Node Text Message 1 from [REDACTED]

From [REDACTED] composed 18.09.14 18:29 | sent 18.09.14 18:29 | received 18.09.14 18:30

[REDACTED]





Freemail

Browsing

Browse Freenet
Upload a Freesite
Search Freenet

Community

Home
Own anonymous identities
Known anonymous identities
Configuration

Filesharing

Downloads
Uploads
Upload a file

Friends

Connections to friends
Add a Friend

Discussion

inbox
Sent

Delete | inbox/Sent | Move

| | Subject | From | Date |
|--------------------------|---|---|------------------------|
| <input type="checkbox"/> | Re: Freenet Umzug | ArneBab <ArneBab@5ptegyo3ycamufd4n2gojibc5uscvsjp4bg4zblzung5j57xc33a.freemail> | 19.07.2014 17:48:46 |
| <input type="checkbox"/> | infocalypse-dvcs-over-freenet.R1/10 | HieronymusCH <hieronymusch@74avt2pm6bjxiif4zvxph25cfw5whrjegr3nxku7qq66ew6tv4aq.freemail> | 18.07.2014 16:07:12 |
| <input type="checkbox"/> | Freenet Umzug | Vincenzo_Peacock <Vincenzo_Peacock@hgrv7cbmdudp6ingje5edzqb7ndm6icx6b6d8x2aryeixwegwcsa.freemail> | 16.07.2014 11:36:37 |
| <input type="checkbox"/> | Freenet Umzug | Vincenzo_Peacock <Vincenzo_Peacock@hgrv7cbmdudp6ingje5edzqb7ndm6icx6b6d8x2aryeixwegwcsa.freemail> | 15.07.2014 20:31:04 |
| <input type="checkbox"/> | Hallo | hisoka11 <hisoka11@mqqapmnrkikdhkh2fjcx46u2xtancxzizqwmwdw3wrfos4frpsa.freemail> | 06.07.2014 22:23:58 |
| <input type="checkbox"/> | Welcome to Freemail | Martin Nyhus <zidel@b5zswai7ybkmcvcrfdldz5euw3ifzn5z5m3bdgpucb26mzqvsflq.freemail> | 07.05.2014 09:33:34 |



Web of Trust



Web of Trust

Browsing

Browse Freenet
Upload a Freesite
Search Freenet

Community

Home
Own anonymous identities
Known anonymous

Summary

| Name | Last change | Last insert | Publishes Trustlist | Trusters | Trustees | Manage |
|---------|------------------------|--------------------------------------|---------------------|------------|------------|--|
| ArneBab | 2014-09-13 00:55:13 | <u>2014-09-13</u> <u>00:55:13</u> | Yes | <u>494</u> | <u>514</u> | <a>Delete <a>Edit <a>Introduce |

Nickname :

Create

Restore an own identity from Freenet

Use this if you lost your database for some reason but still have your identity's insert URI:

Restore

Summary

Own Identities: 11
Known Identities: 10243
Trust relationships: 193658
Score relationships: 80853



Webseiten lesen



NERDAGEDDON

Generated: 2014-09-01



Welcome to Nerdageddon. Here we aim to bring you a list of all freesites, both old and new which could be interesting to political nerds. The links presented here exclude the sites which Linkageddon flags as porn or cp, and those which I perceive as normal. Sites are excluded via a black-list, so new sites will appear here until I remove them to ensure that the index stays useful (though a bit messy) even if I do not get to ched: the sites.

If you feel the title and/or description for a particular freesite does not give sufficient warning about it's content then please feel free to comment to that effect on Sone or to the relevant FMS board. If Linkageddon changes the description or title, this site will reflect that at the next update.

Use the KeyUtils plugin to extract all scripts which generate this site.

xkcd - A webcomic of romance, sarcasm, math, and language - By Randall Munroe

Freenet mirror of popular web comic.

Updated: 2014-08-29

Index - Mls mierdas

Hadie te obliga a leerme

Updated: 2014-08-29

House of Cards

Download episodes from the Netflix TV series House of Cards

Updated: 2014-08-28

IRC Log

Log of previous day's discussion on the official Freenet IRC development channel.

Updated: 2014-08-28

Mémoires

French language freesite

Updated: 2014-08-29

Enzo's Index

Another Freenet Key Index by Enzo.

Updated: 2014-08-29

Freenet statistics

Some data and graphs of the retrievability of Freenet data over time.

Updated: 2014-08-28

Alejandria

Updated: 2014-08-27

Programming

Programming

Updated: 2014-08-26

Freenet Statistics

Updated: 2014-08-29

Korean Pop Music Girl Band Videos

Updated: 2014-08-29

Mitsu'liens

Sharing interesting links and short posts (based on Shaarli)

Updated: 2014-08-28

Index - Hieronymus' Flog

my free digital home

Updated: 2014-08-27

Index - Something Satanic

b4ph0m37's flog about Atheism, Satanism & Satan.

Updated: 2014-08-26



Webseiten schreiben



Edit ShareWiki freesite

[Go back to freesite menu](#)

Name / Title:

Short description of your freesite:

Full description, text and links:



Foren: FMS



Home | Browse Freenet | Browse Forums

» Browse Forums

Sign In

Search

Mark All Read

| New | Forum | Posts | Last Post |
|-----|---|-----------|--|
| ★ | bitcoin www.bitcoin.org | 25 posts | Last post on 2014-04-30 21:28:23 in 'Dark Wallet' Is About to M... by MyID@PRJ1j82iLylfZ3o-kd6221... |
| ★ | encrypted.messages shared board for private messaging | 0 posts | |
| ★ | flip Freenet Lightweight IRC Program | 0 posts | |
| ★ | fms Freenet Message System | 190 posts | Last post on 2014-06-12 18:49:32 in Re: How to autostart FMS on... by Ada_Crandell@IDu3FJbpeFN1Xh... |
| ★ | freemail Freemail | 16 posts | Last post on 2014-06-07 12:38:32 in Re: How does it work? by Groov@cNcXSeDF4A50LI-bkQ4fp... |
| ★ | freenet Discussion about Freenet | 680 posts | Last post on 2014-06-15 01:25:21 in Re: problem with freenet ve... by operhiem1-notrust@LkDnTCJ3... |
| ★ | freenet.0.7.bugs | 0 posts | |
| ★ | freetalk freetalk | 0 posts | |
| ★ | frost.freenet | 455 posts | Last post on 2014-06-15 14:03:17 in Re: Patched 1462 by Anonymous |
| ★ | leak Leaked documents | 3 posts | Last post on 2014-06-06 23:04:44 in Re: [X-post from Frost] Lea... by Yomper@t- R8mLbceLwMuRWds0Z... |
| ★ | news | 241 posts | Last post on 2014-06-15 09:38:52 in CRYPTO-GRAM June 15, 2014 by r_st@A47x- |

Microblog: Sone



many identities.

about a week ago · [\[link author\]](#) · [Comment](#) · [Toggle Parser](#) · [Like](#) · [✓](#) [✗](#)



Guoray_Sigismund I can put a piece of paper over my webcam, but what can I do about the microphone?

☆ · about a week ago · [\[link post\]](#) · [\[link author\]](#) · [Comment](#) · [↑1](#) · [Like](#) · [✓](#) [✗](#)



Saul_Particle @Guoray_Sigismund You could pull the tiny microphone plug from the board. On notebooks this is sometimes below the keyboard, so you won't have to disassemble too many parts. *At your own risk*

Maybe removing the sound driver (kernel modul) could be a first step without having to modify hardware (but you'll lose sound out that way)

about a week ago · [\[link author\]](#) · [Comment](#) · [Toggle Parser](#) · [Like](#) · [✓](#) [✗](#)



NowWhat @Guoray_Sigismund Is the microphone really that big a deal though? I can't imagine most are good at picking up stuff that isn't close to the mic anyway. Also, anybody who could access your microphone is likely able t... » [show more](#)

about a week ago · [\[link author\]](#) · [Comment](#) · [Toggle Parser](#) · [↑1](#) · [Like](#) · [↕](#)



Guoray_Sigismund @Saul_Particle It's one idea, but quite a bit of effort. Also I'd have to do it with phone, tablet, laptop etc :p

If a laptop is compromised, surely it could just modprobe the module itself?

5 days ago · [\[link author\]](#) · [Comment](#) · [Toggle Parser](#) · [Like](#) · [✓](#) [✗](#)



Saul_Particle @Guoray_Sigismund Indeed, quite a bit of effort. That's why the mainstream user will not do it.

You also cannot cut the wire on the phone you want to phone with... you'd need a second phone with working microphone (maybe be a €/€ 20 "feature phone") you only switch on if you want to make a call.

I read Jacob Applebaum, while on stage at the Chaos Communication Congress, pulled out a cheap phone and a loose battery from his pocket, put the battery into the phone, sent an SMS, then removed the battery again. « [show less](#)

5 days ago · [\[link author\]](#) · [Comment](#) · [Toggle Parser](#) · [Like](#) · [✓](#) [✗](#)



Saul_Particle @Guoray_Sigismund *pocket

5 days ago · [\[link author\]](#) · [Comment](#) · [Toggle Parser](#) · [Like](#) · [✓](#) [✗](#)



Zusammenfassung



Warum?

Selbstzensur im Netz

Lösungen

Freie Kommunikation im Internet

Vertraulich



Offiziell



Pseudonym



Technik

Eine Vision



Alleinstellungsmerkmale



- Freund-zu-Freund Darknet (plus Opennet)
- Hosting ohne Server (hochladen und verschwinden)
- Stabile Pseudonyme (privater Schlüssel)
- Dezentrale Spamresistenz (erprobt)
- Nutzungsabhängige Lebenszeit (anonym)



Tech alleine reicht nicht

Totale Überwachung und Kontrolle sind möglich.

Politik alleine reicht nicht

Wenn Überwachung und Zensur trivial sind, werden sie genutzt.

Tech und Politik

Technologie liefert die Grundlage, auf der Politik arbeiten kann: Überwachung und Zensur so aufwändig und teuer machen, dass wir den politischen Kampf gewinnen können.

*The NSA surveillance doesn't scale.
– Constanze Kurz (EuroPython 2014)*

Zusammenfassung



Warum?

Selbstzensur im Netz

Lösungen

Freie Kommunikation

Technik

Stabile Grundlage:

- Skaliert
- Pseudonyme
- Fokus auf wirklicher Pressefreiheit
- Grundlage für politisches Handeln

Eine Vision





Warum?

Lösungen

Technik

Vision



Warum?

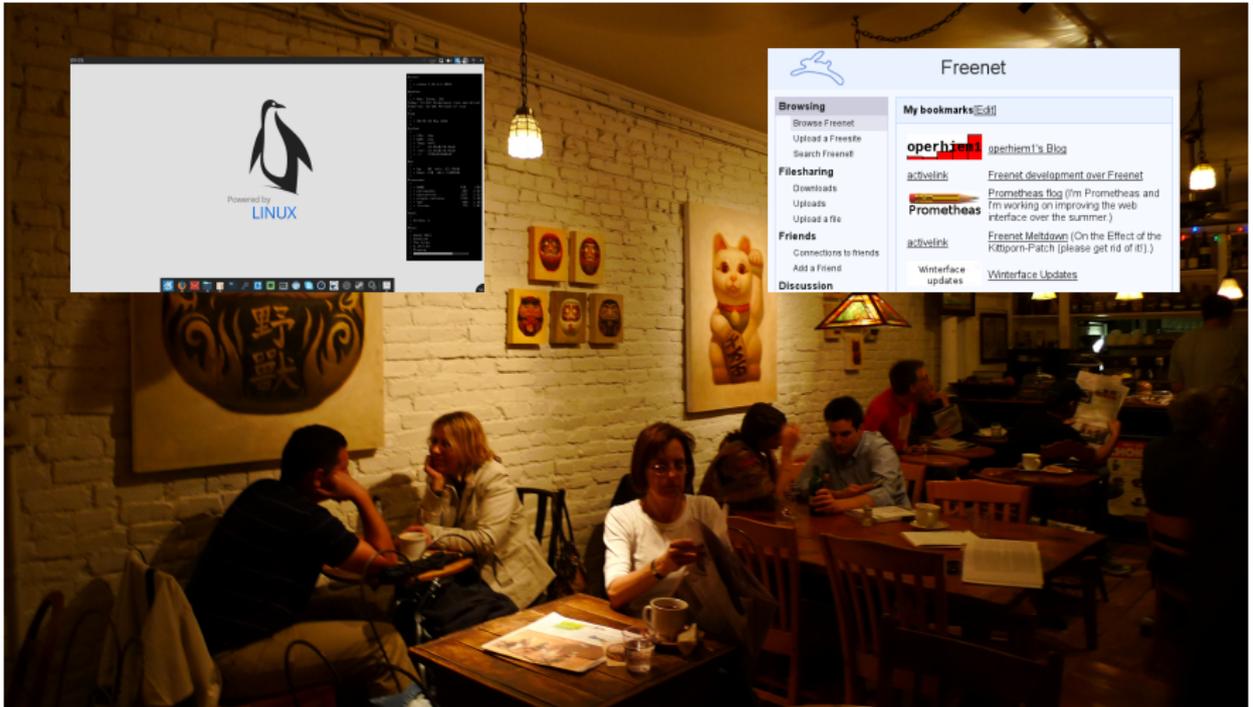
Lösungen

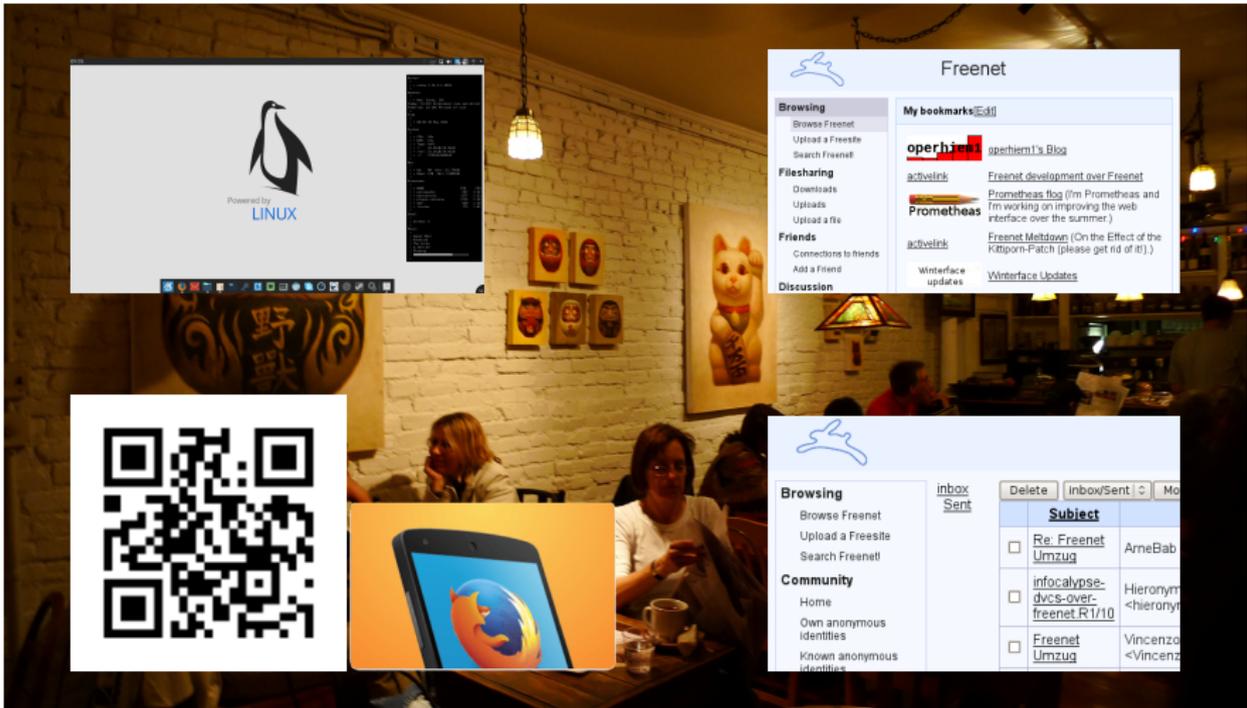
Technik

Vision









Freenet

Browsing

- Browse Freenet
- Upload a Freesite
- Search Freenet

Filesharing

- Downloads
- Uploads
- Upload a file

Friends

- Connectors to friends
- Ads a Friend

Discussion

My bookmarks[Edit]

- openh** [openh's Blog](#)
- [adve](#) [Freenet development over Freenet](#)
- Prometheus** [Prometheus Blog \(I'm Prometheus and I'm working on improving the web interface over the summer.\)](#)
- [adve](#) [Freenet Meltdown \(On the Effect of the KitSporn-Patch \(please get rid of it!\)\)](#)
- Winterface updates [Winterface Updates](#)

Browsing

- Browse Freenet
- Upload a Freesite
- Search Freenet

Community

- Home
- Own anonymous identities
- Known anonymous identities

Inbox Sent

| Delete | Inbox/Sent | Mo |
|--------------------------|--|--------------------|
| | Subject | |
| <input type="checkbox"/> | Re: Freenet Umzug | ArneBab |
| <input type="checkbox"/> | infocalypse-dvc's-over-freenet.R1/10 | Hieronym<hieronym> |
| <input type="checkbox"/> | Freenet Umzug | Vincenzo<Vincenzo> |





Warum?

Lösungen

Technik

Vision



Warum?

Lösungen

Technik

Vision



The screenshot shows the Freenet web interface. On the left is a navigation menu with sections for 'Browsing' (Browse Freenet, Upload a Freesite, Search Freenet) and 'Community' (Home, Own anonymous Identities, Known anonymous Identities). On the right is an email inbox table with columns for 'Delete', 'Inbox/Sent', and 'Subject'. The inbox contains three entries:

| | Subject | |
|--------------------------|-------------------------------------|---------------------|
| <input type="checkbox"/> | Re: Freenet Umzug | ArneBab |
| <input type="checkbox"/> | infocalypse-dvcs-over-freenet R1/10 | Hieronym <hieronym> |
| <input type="checkbox"/> | Freenet Umzug | Vincenzo <Vincenzo> |





Fre

Browsing

- Browse Freenet
- Upload a Freesite
- Search Freenet

Community

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- Own anonymous Identities
- Known anonymous Identities

inbox Sent

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|--------------------------|--------|-------------------------------------|---------------------|
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| <input type="checkbox"/> | | Freenet Umzug | Vincenzo <Vincenzo> |



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inbox Sent

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|--------------------------|--------|-------------------------------------|---------------------|
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| <input type="checkbox"/> | | Freenet Umzug | Vincenzo <Vincenzo> |

Warum?

Lösungen

Technik

Vision

Zusammenfassung



Warum?

Selbstzensur im Netz

Lösungen

Freie Kommunikation

Technik

Stabile Grundlage

Eine Vision

- Nicht nachweisbare Pseudonyme
- Whistleblower und Journalisten
- Normale Menschen
- Technisch mit Freenet möglich
– wir wollen es einfach machen

Nutzt Freenet!



freenetproject.org

Donate: freenetproject.org/donate.html

Bitcoin: 1966U1pjj15tLxPXZ19U48c99EJDkdXeqb



Abbildung: Freenet Entwickler auf CTS4. Von Links: ArneBab, toad, leuchtkaefer und digger3.

Außerdem (diese Woche aktiv):

- operhiem1: Projektverwaltung
- xor: WoT, bezahlt
- nextgens: Sicherheit
- Bombe: Sone
- TheSeeker: Bleeding Edge
- SomeDude: FMS (anonym)
- Eleriseth: Kern (anonym)
- ... (etwa ein Dutzend weitere)





Diese Präsentation: github.com/ArneBab/freenet-fundraising/
Bilder: Hase unter GPL, alle weiteren cc by.

- <https://www.flickr.com/photos/anonymous-munich/3282278914>
- <https://www.flickr.com/photos/gruenejugendffm/6272541036>
- <https://www.flickr.com/photos/eppofficial/13564824463>
- <https://www.flickr.com/photos/maguide/6092244239>
- <https://www.flickr.com/photos/okubax/15814107199>
- <https://www.flickr.com/photos/okubax/14248440483>
- <https://www.flickr.com/photos/okubax/15812839470>
- <https://www.flickr.com/photos/digitpedia/4709307610>

Quellen2



- <https://www.flickr.com/photos/focusc/4758319160>
- <https://www.flickr.com/photos/amitd/4693814169>
- http://commons.wikimedia.org/wiki/File:International_newspaper,_Rome_May_2005.jpg#metadata
- http://commons.wikimedia.org/wiki/File:Edward_Snowden_2013-10-9_%281%29_%28cropped%29.jpg

Eine alte Hoffnung



- 1995: Scheideweg: **Überwachung oder Freiheit.**
- 1999: **Freenet** gestartet.
- 2001: **9/11**. War on Terror.
- 2013: Snowden. Kostbare Zeit, um **das Rad zurück zu drehen.**

Programmieren: Infocalypse



```
$ hg clone freenet://USK@j2Mfv0b81MNSslh3Qg9gs1vgQj36whsuosP8ydZq158,\
Xb~vh8XEXmdwGFca4HAX-IL0ZD6AWPVuRzIuLer14PU,AQACAAE/infocalypse-repo.R1/17
```

```
...
```

```
As basic protection, infocalypse automatically set the username
'anonymous' for commits in this repo...
```

```
$ hg fn-pull-request
```

```
...
```

```
$ hg fn-check-notifications
```

```
...
```

- clone / fork
- pull
- pull-request



- Unveränderlicher Datenspeicher
- Aktualisierbar durch Versionierung
- Hochladen mit
 - Passwort (KSK — CAPTCHAs)
 - Pseudonym (SSK/USK — Webseiten)
 - Inhalt (CHK — erneut hochladen)



The practical cool result now, is that the Mempo repository can not be censored, DDoSed or taken offline, despite having just 1 tiny server (or no server at all)
— rfreeman im Artikel „apt-get over Freenet“.

“After running the Tor services for years it was a big relief to just shut down the services for good and say ‘fuck it’. I never again had to worry no more about security. With Freenet I am Free, it suites the name pretty well if you ask me.”
— Unkwon

Skaliert schon?



Was steht noch, wenn morgen 10 mio Menschen Freenet installieren?

- Darknet Nachrichten
- Dateien/Ordner
- Webseiten
- Programmieren
- Opennet (mehr seednodes)
- Foren (fragmentiert)
- Index-Seiten (aufteilen)
- Spam-Schutz mit Web of Trust
 - E-Mail
 - Blogs
 - Microblogs

Mit Darknet Routing.

*Fix WoT: kein globales Wissen:
bug #6228 und bug 5524.*