



Antisocial Hateworks

Problems with People since Eternal September

- Opinions** are not facts, but values people believe in
- Beliefs** are not up to discussion, but part of identity
- Identity** is vigorously defended and used to segregate people
- Walls** are in the head, and tearing them down causes aggression

Free Speech I'm more and more convinced, that "speech" is too generic.
Lies and deception need no protection.
Claims need proof and evidence.
Truth needs protection.

Motivation

Bad Gateway
 Internetkurort

Things done: "Who has What"

Query object origin by hash

- ? Original plan: keep hashes in DHT
- Query reveals who wants what
- ? Original solution: Encrypt hashes
- Query reveals who wants/has the same thing
- ? Onion routing within DHT?
- Complex, slow
- Better keep "who has what" within the chat log structure
- "who" is device.pubkey
- ? Missing: limit reach of "who has what"

net2o in a nutshell

net2o consists of the following 6 layers (implemented bottom up):

2. Path switched packets with 2" size writing into shared memory buffers
3. Ephemeral key exchange and signatures with Ed25519, symmetric authenticated encryption+hash+pmg with Keccak, symmetric block encryption with Threefish/Keccak, onion routing camouflage with Threefish/Keccak
4. Timing driven delay minimizing flow control
5. Stack-oriented tokenized command language
6. Distributed data (files, messages) and distributed metadata (DHT, DVCS)
7. Apps in a sandboxed environment for displaying content

In Progress: Harfbuzz (in MINΩΣ2)

- Purpose: Do the more complex part of Unicode rendering
- The interface is actually not that difficult
- But requires restructuring code
- And thinking about right to left scripts
- (and top-to-bottom like Mongolian)
- Challenge: select text by font
- because combiners allow to mix them

1¾ years into COVID-19 pandemics

Surveillance Capitalism

- Apple wants to scan your pics locally for child porn
- Had to back down quickly
- Facebook & Twitter "check for facts"
- Actually still distribute a lot of disinformation
- Telegram became tool of choice of Covidiot
- Free speech seems to be a problem
- Twitter tests "safe space" feature...
- The algorithm hides what could hurt you

Progress

Little on net2o, more on Bernd 2.0
TCP/IP turns 40

Done: Formated chat messages

- Inspired by Mattermost
- Format parsing different from Markdown (simpler)
- Disabled by default
- Sender parsed, so sender parser can change

Disinformation

Lessons learned during the pandemics

- First Impression** Facts don't change our minds [2]
- Ikea Effect** Easy to obtain things have "no value" [3]
- Worldview** lets us dismiss facts that don't fit into it
- Science** needs to be prudent
- Plausibility** This man has done evil things many times
It's just that he doesn't need to chip you
He already has everything he wants to

QAnon

suspected origin: Wu Ming (五名, 5 names)
Wu Ming can be pronounced as 无明, Ignorance

Mostly done: Voice messages

- Uses Pulseaudio on Linux, OpenSLES on Android
- Encoding in Opus
- OpenSLES recording doesn't work yet
- Android problems with callbacks into Gforth's dynamic code
- The rest is similar to pictures
- Thumbnail is a waveform from plot with max level/second

Decentralized Censorship



Make net2o a better place

- Internal, not external censorship
- Disinfodemic in a peer2peer network similar to pandemic models
- Filtering on incoming content, not your own content
- Sender does not know that content is blocked
- Different settings possible:
 1. Filter hides messages
 2. Filter doesn't transmit messages
 3. Both ("sterile immunity")
- Typical fanout of participants = R_0
- If more than $1-1/R_0$ filter, bad contents doesn't get far
- Requires easy filter sharing

What kind of bad text?



It's not bad words

- Teh spellink is awefull
- SHOUTING ALL THE TIME
- Number (and color) of exclamation marks !! !!
- This sounds like easy to defeat — for smart people
- Smart people are rarely the problem...
- This is porn according to AI:



Disinfodemic



Examples from the Covid pandemic

- 李文亮** Was gag ordered by Wuhan police when the main news (新闻联播) already had a report. "Would not happen here"
- Here?** Instead, a hell lot of disinformation spread out in the free west
- Evil Govt** Yes, the government is evil. But also incompetent. And its bias is pro corporations. Evilness serves a purpose.
- Science?** Science questions everything. But it conducts experiments to check. Masks work. Lockdowns work. Wuhan lab didn't leak. Vaccines are safe. Ivermectin/Chloroquin/Vitamine D are no miracle cure.
- Massacre** The failure (willful/incompetent) to contain Covid-19 is a massacre. Democracies can do such atrocities only with massive disinformation.

Filter Algorithms in Real Life



- Algorithm based on words
- Click worker paid per case
- Weird rules
- Want to keep the idiots Because they click the ads which are frauds...

Martin Perscheid
† 31. Juli 2021 — RIP



Manual moderation?



Too late, too little

- Delete bad content
- Leave the corrections
- Block the bad actors
- In a P2P network, people can block the moderators
- So a rough consensus is needed
- Manual interaction is too slow
- People don't read rectifications

The non-technical problems



- Get your contacts over to net2o
- How to make a social network a nice place?
- Funding of net2o?

Automatic filter?



Actually the hard problem

- Texts:** Bad texts (equals PCR test)
- + Easy to implement
 - Easy to defeat, easy to be false positive
- Images:** Fingerprints
- + Medium difficulty to implement
 - Easy to defeat, easy to generate pre-image attacks
- Audio:** Speech to text
- + Medium difficulty to implement
 - Defeat is unclear, easy to generate pre-image attacks

Literatur & Links



- Bernd Paysan *net2o fossil repository*
<https://net2o.de/>
- The New Yorker *Why Facts don't change our Mind*
<https://www.newyorker.com/magazine/2017/02/27/why-facts-dont-change-our-minds>
- Sascha Lobo *QAnon — Verschwörungsideologie zum Mitmachen*
https://www.spiegel.de/netzwelt/netzpolitik/qanon_