Thout
Yet Another WebSocket P2P Project

DrDub
OHM2013
https://github.com/DrDub/Thout
Everybody is doing it so why can't we

- Hackons la Corruption
- WebSockets
- "Peer-to-peer" through centralized proxy
- All in one language (JS)
- Stores documents in the readers' Web browser
- Unpopular documents are 'forgotten'
Simple, yet problematic

Simple

• no DHT!
• probabilistic flooding

Problems

• no DHT!
• trivial to attack
• WebSocket binary encoding
• node.js hashing used to be not async
Fully defined protocol

From Client: JSON { 'command' : 'FETCH' , 'hash' : hash }
From Client: JSON { 'command' : 'REGISTER', 'hash' : hash }
From Client: JSON { 'command' : 'AVAILABLE', 'number_of_slots' : number }
From Client: JSON { 'command' : 'LIST', 'number_of_hashes' : number }
From Client: JSON { 'response' : 'UNAVAILABLE', 'hash' : hash }
From Client: binary data (document)
From Node: JSON { 'command' : 'FETCH', 'hash' : hash }
From Node: JSON { 'response' : 'UNAVAILABLE', 'hash' : hash }
From Node: JSON { 'response' : 'LIST', 'hash' : [ hash ] }
From Node: binary data (document)
Love us for

...trying :-)

- TorChecker NPM package
  https://npmjs.org/package/torchecker
- Spanning tree goodness by jergas and 5nister
- Buddying community in Montreal (pholden, jergas, 5nister)
- Low barrier of entry, documented protocol
- Love? Flames? Ping me: DrDub@Freenode (###foulab)