Freechains

www.freechains.org

github.com/Freechains/README

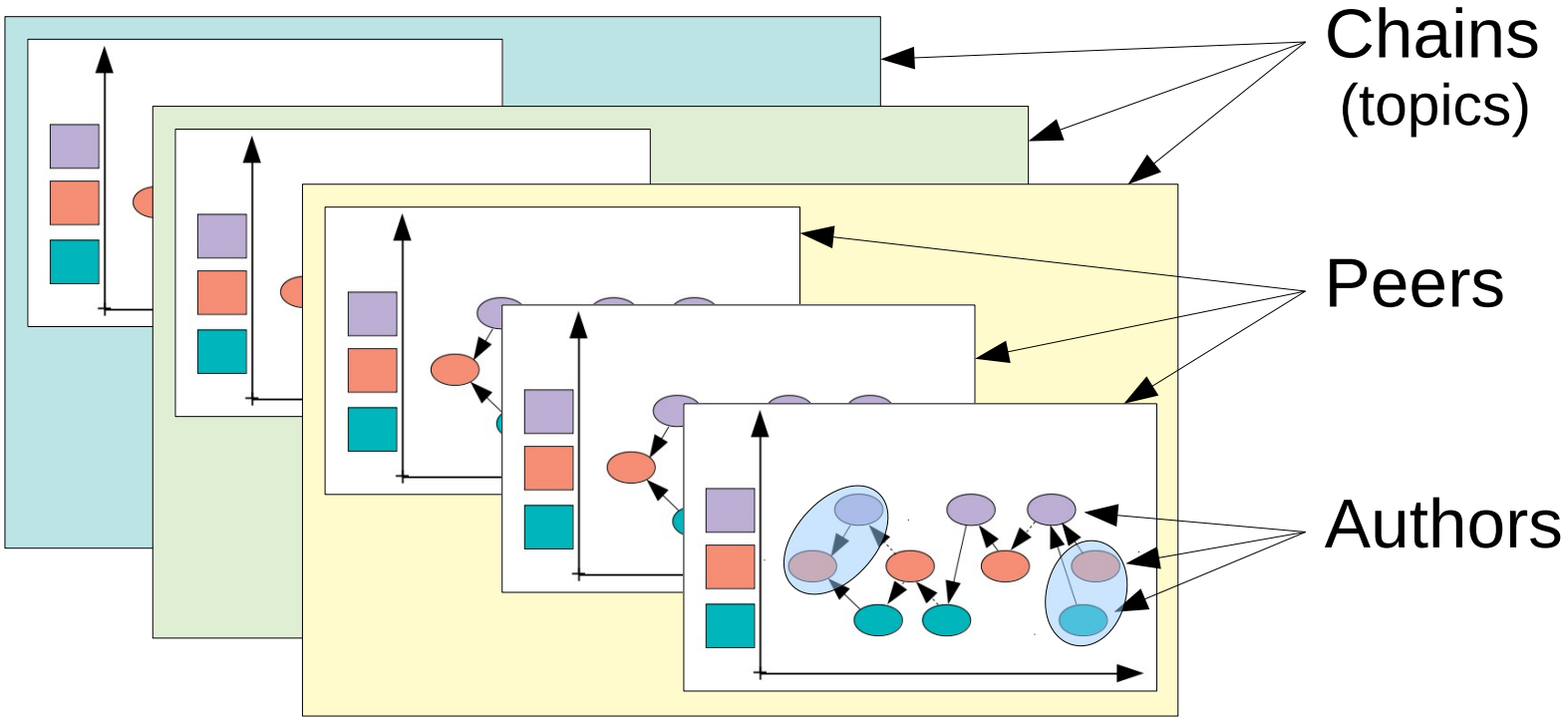
freechains@freechains.org

@freechains_net

peer-to-peer content dissemination

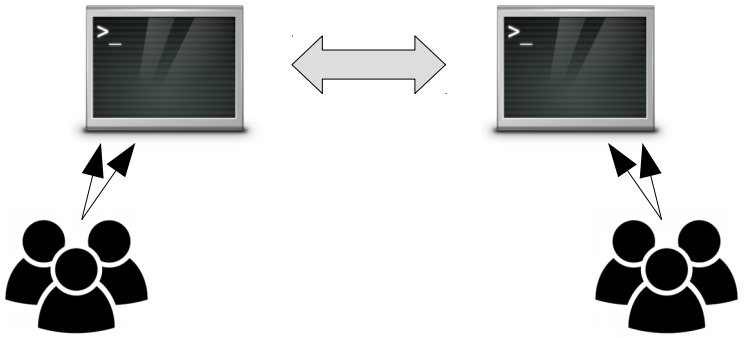
Freechains

- Persistent publish-subscribe topic-based model
- Peer-to-Peer gossip dissemination
- Happened-before best-effort partial order
- **Per-topic reputation system for healthiness**



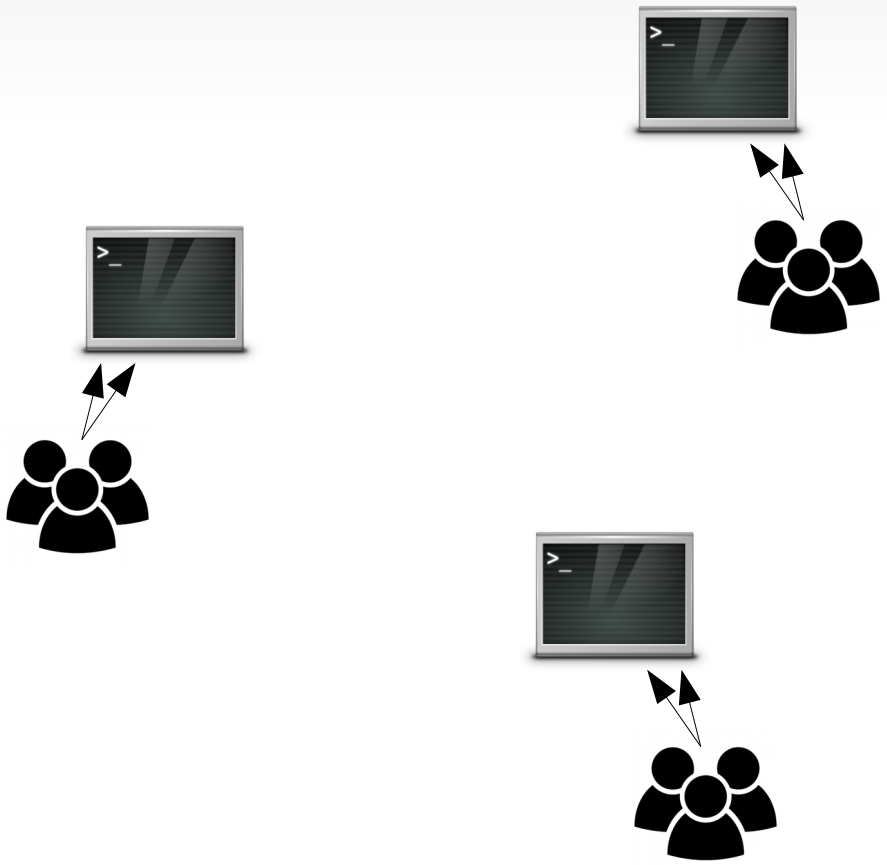
Freechains

- Open-source software for PC and mobile
- Standalone daemon listening for peers
  - local users perform actions
  - remote peers synchronize
- User interfaces:
  - command line
  - kotlin library
  - textual protocol

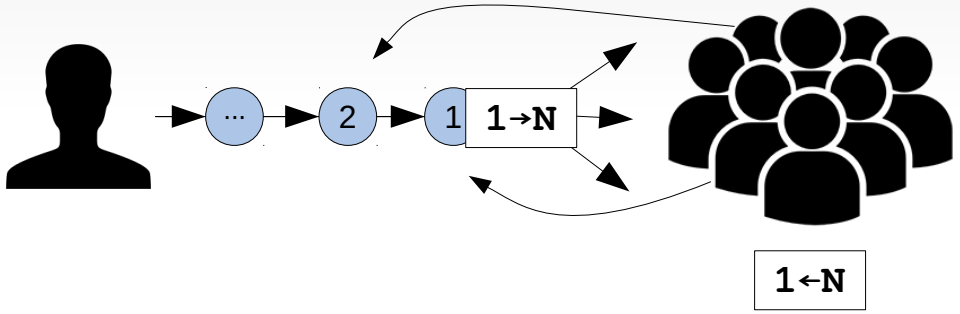


Setup

```
$ freechains-host start  /var/freechains/ &
```

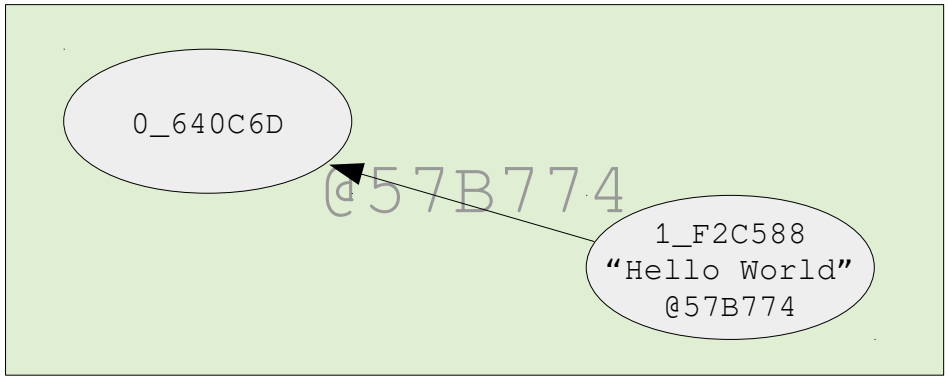


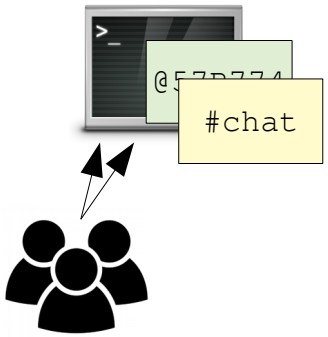
Public Identity
(1→N / 1←N)

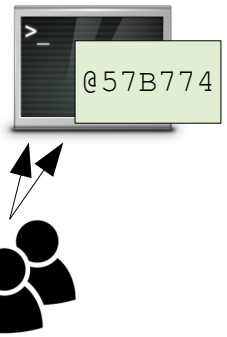


Public Identity
(1→N / 1←N)

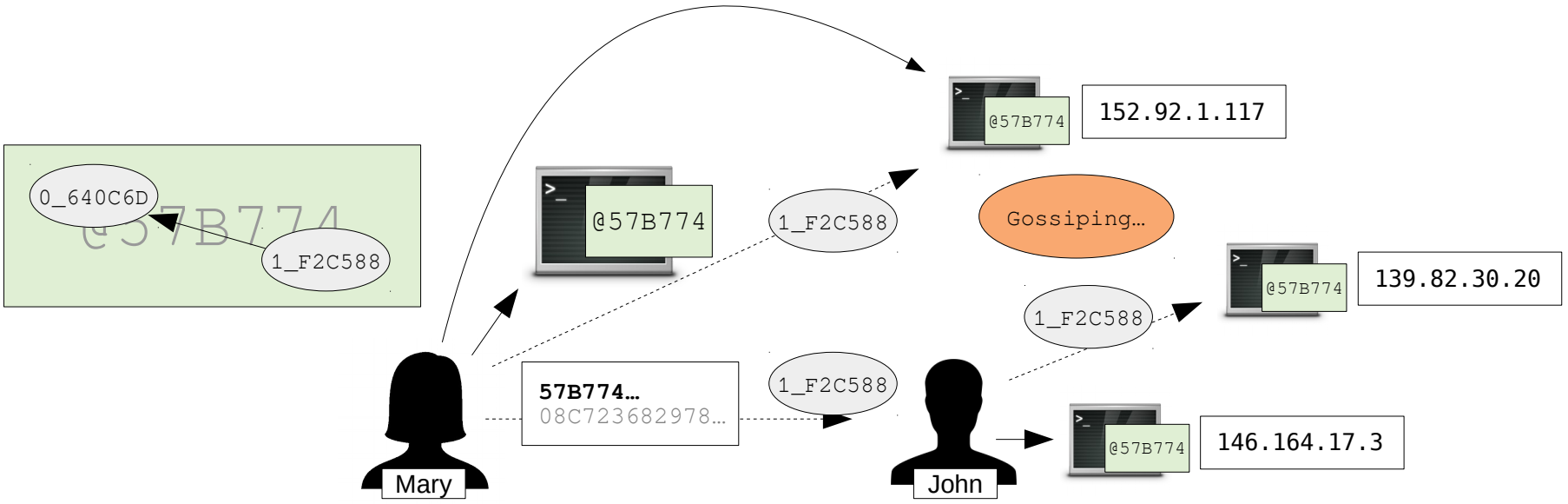
```
$ freechains crypto pubpvt <passphrase>
57B774…  08C723682978…
$ freechains chains join "@57B774…"
$ freechains chains join "#chat"
$ freechains chain "@57B774…" genesis
0_640C6D…
$ freechains chain "@57B774…" post
    inline "Hello World!" --sign=08C723682978…
```







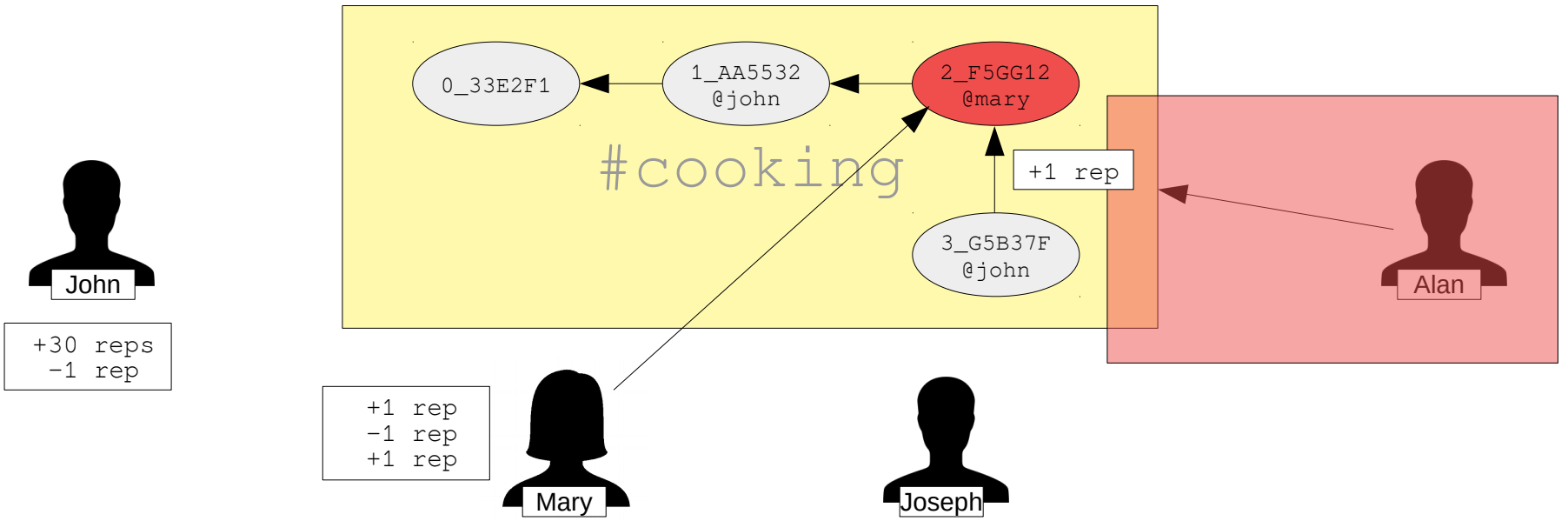
```
$ freechains crypto pubpvt <passphrase>
$ freechains chains join "@57B774…"
$ freechains chain "@57B774…" post
    inline "Hello World!" --sign=08C723682978…
$ freechains peer 146.164.17.3 send "@57B774…"
$ freechains peer 152.92.1.117 send "@57B774…"
$ freechains peer 139.82.30.20 send "@57B774…"
```



Public Forum
(N↔N)

Reputation System

```
$ freechains chains join "#cooking"
$ freechains chain "#cooking" post inline
   "Post your best recipes..." --sign=7A553D12EE9A…
$ freechains chain "#cooking" post inline
   "Cut half of a lime..." --sign=08C723682978…
```



Reputation System

- First author is 30 days ahead in reputation
  - he shapes the initial community development
  - multiple first authors cannot synchronize
- New authors require community approval
  - reputation growth is slow
- New posts are initially penalized
  - authors must “choose words” wisely
  - posts volume is not rewarded (but quality is)
- Old posts are the community wealth
  - only form of “production”
  - limited to 1/day/author in 30-day window
  - still subject to moderation

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