

Freechains



www.freechains.org



github.com/Freechains/README



freechains@freechains.org

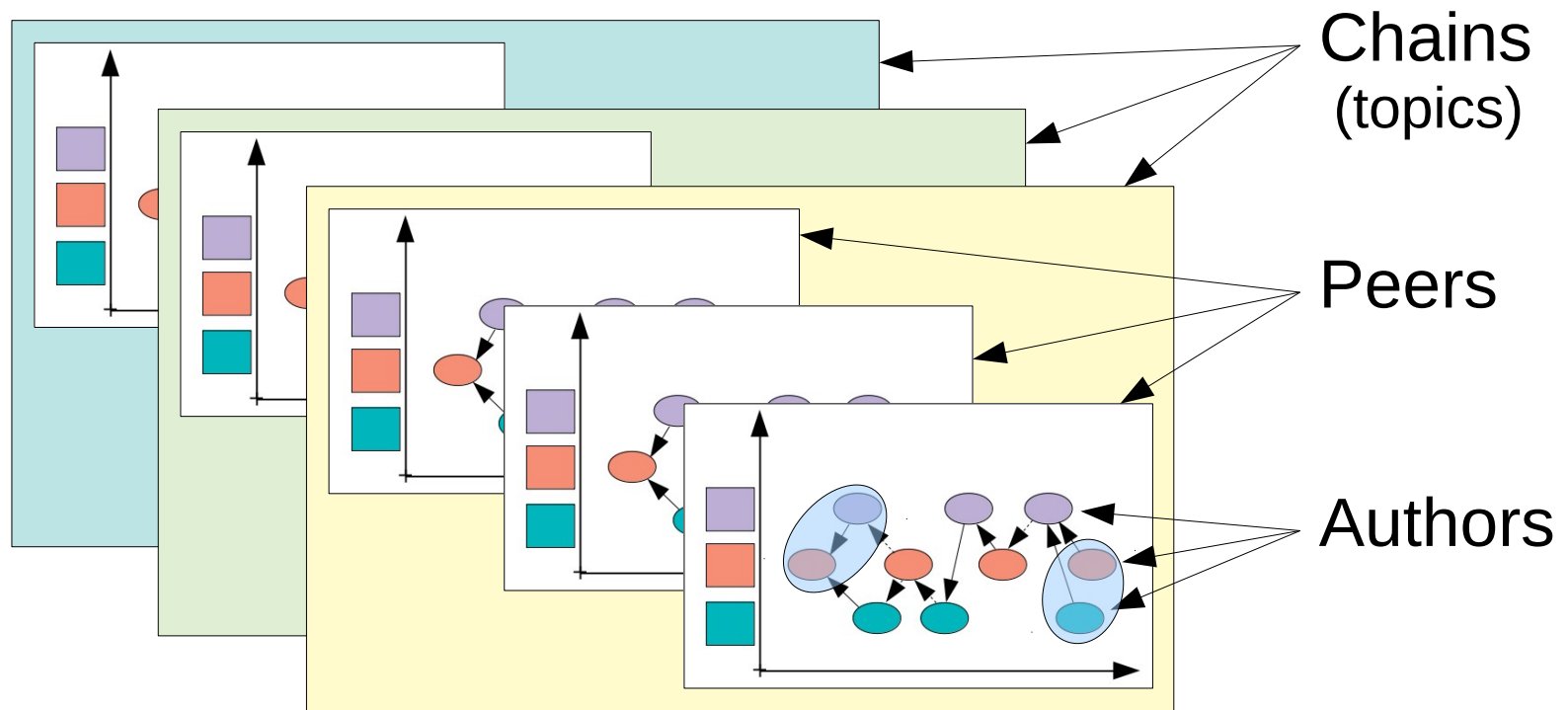


[@freechains_net](https://twitter.com/freechains_net)

peer-to-peer content dissemination

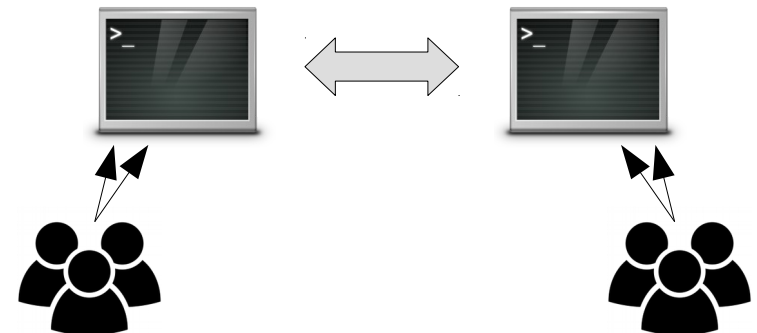
Freechains

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



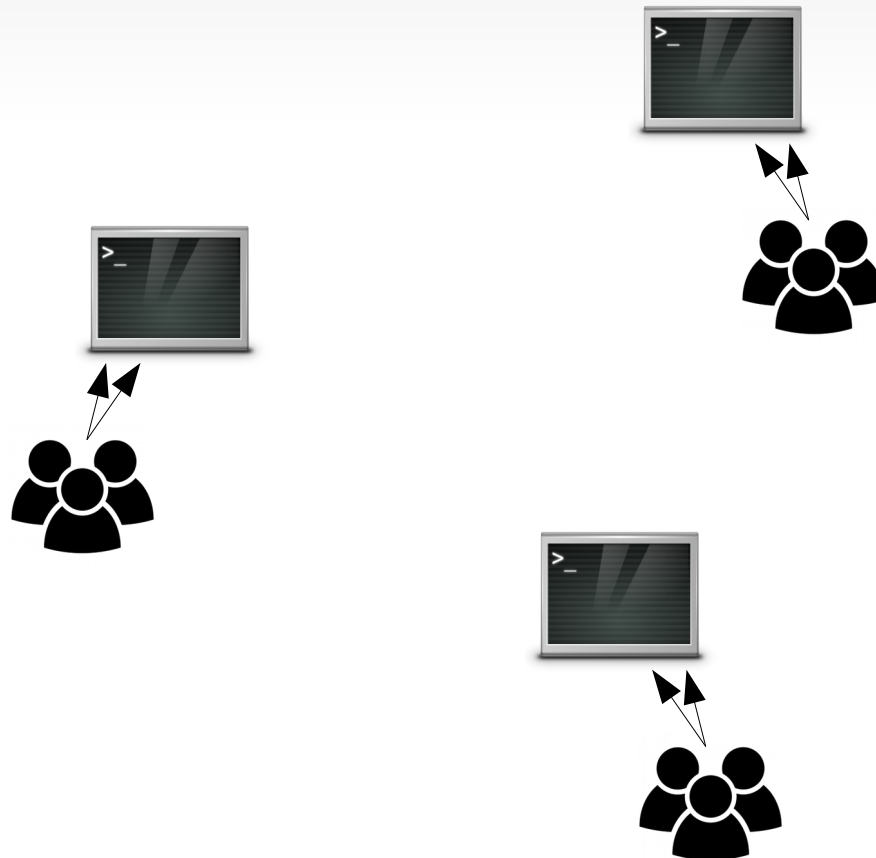
Freechains

- 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



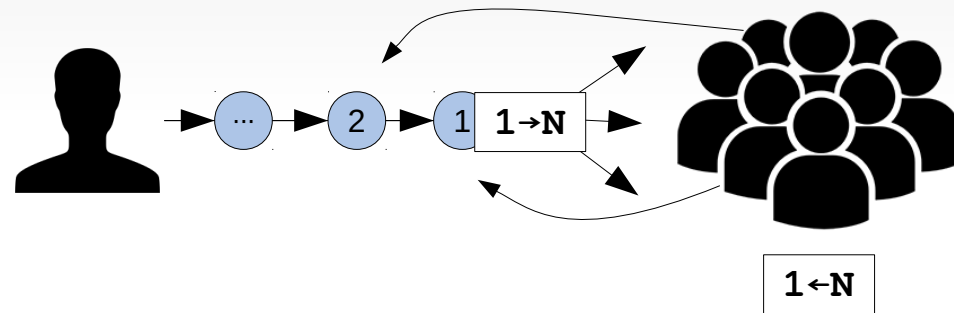
Setup

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



Public Identity

($1 \rightarrow N$ / $1 \leftarrow N$)



Public Identity

(1→N / 1←N)

```
$ freechains crypto pubpvt <passphrase>
```

```
57B774... 08C723682978...
```

```
$ freechains chains join "@57B774..."
```

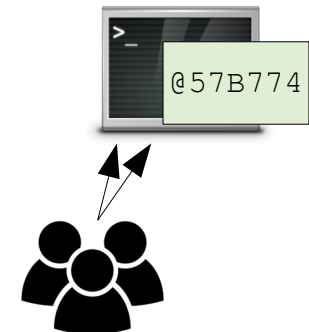
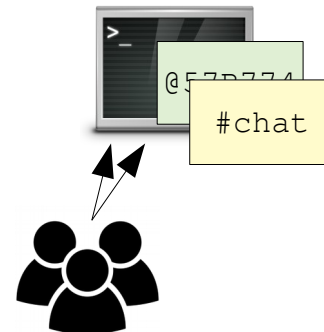
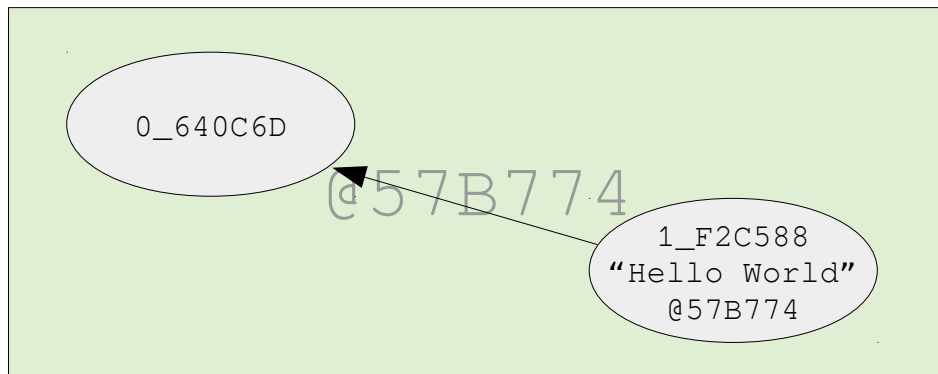
```
$ freechains chains join "#chat"
```

```
$ freechains chain "@57B774..." genesis
```

```
0_640C6D...
```

```
$ freechains chain "@57B774..." post
```

```
inline "Hello World!" --sign=08C723682978...
```



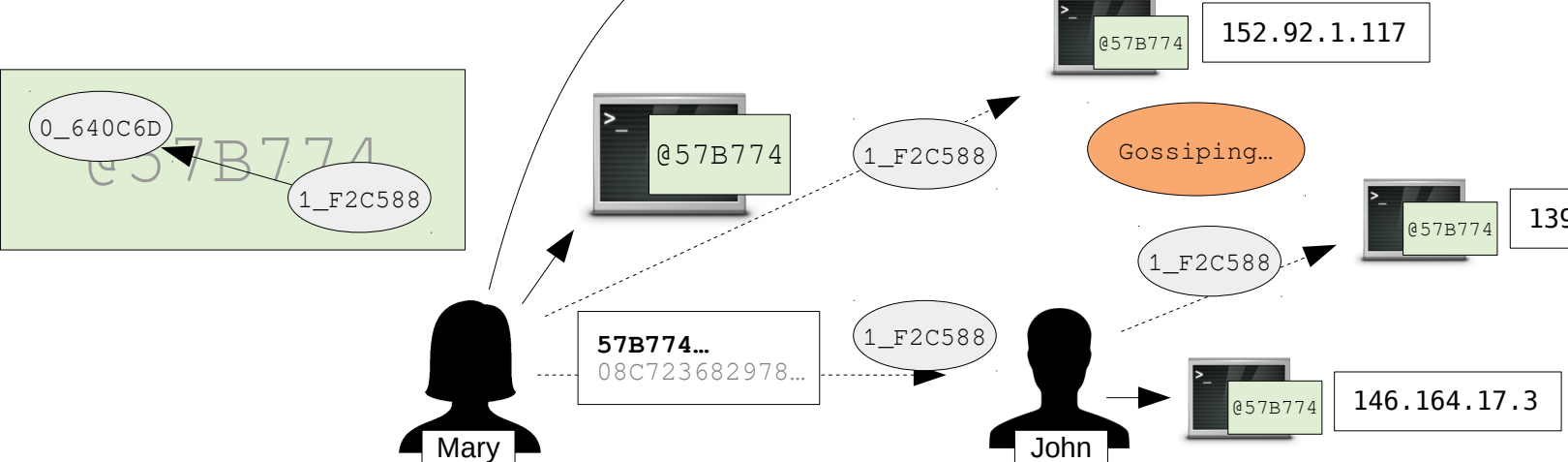
```
$ freechains chains join "@57B774..."
```

```
$ 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 132.92.1.117 send "@57B774..
$ freechains peer 139.82.30.20 send "@57B774..
```



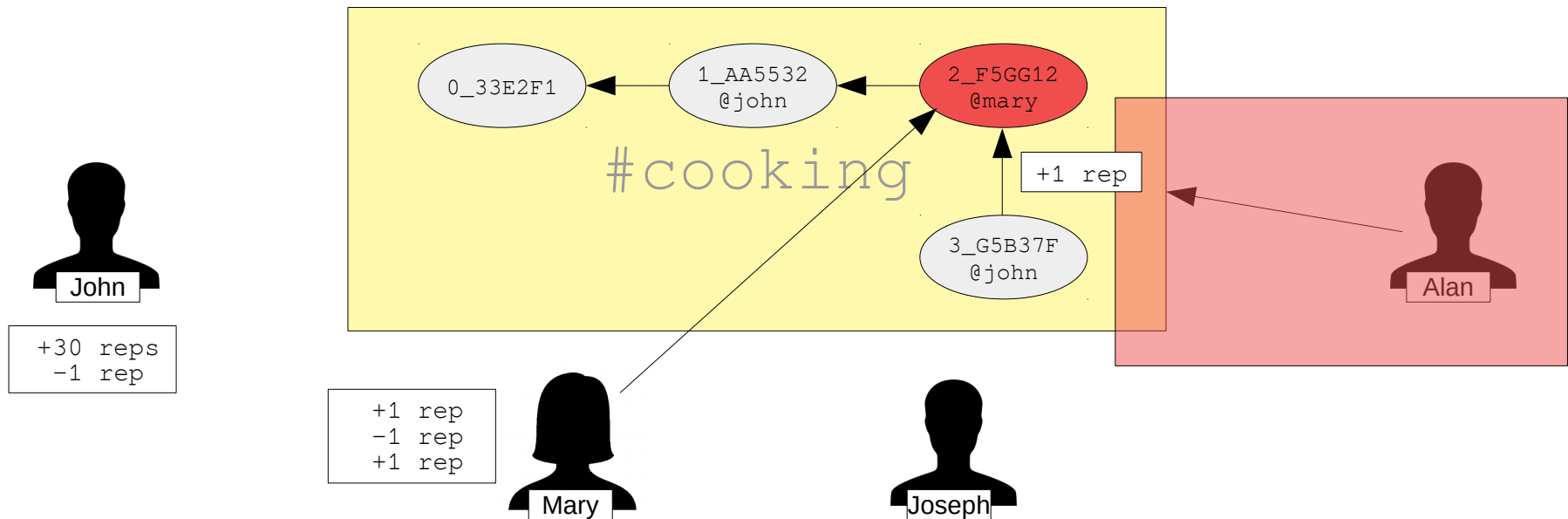
Public Forum

(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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