

# Freechains



[www.freechains.org](http://www.freechains.org)



[github.com/Freechains/README](https://github.com/Freechains/README)



[freechains@freechains.org](mailto:freechains@freechains.org)

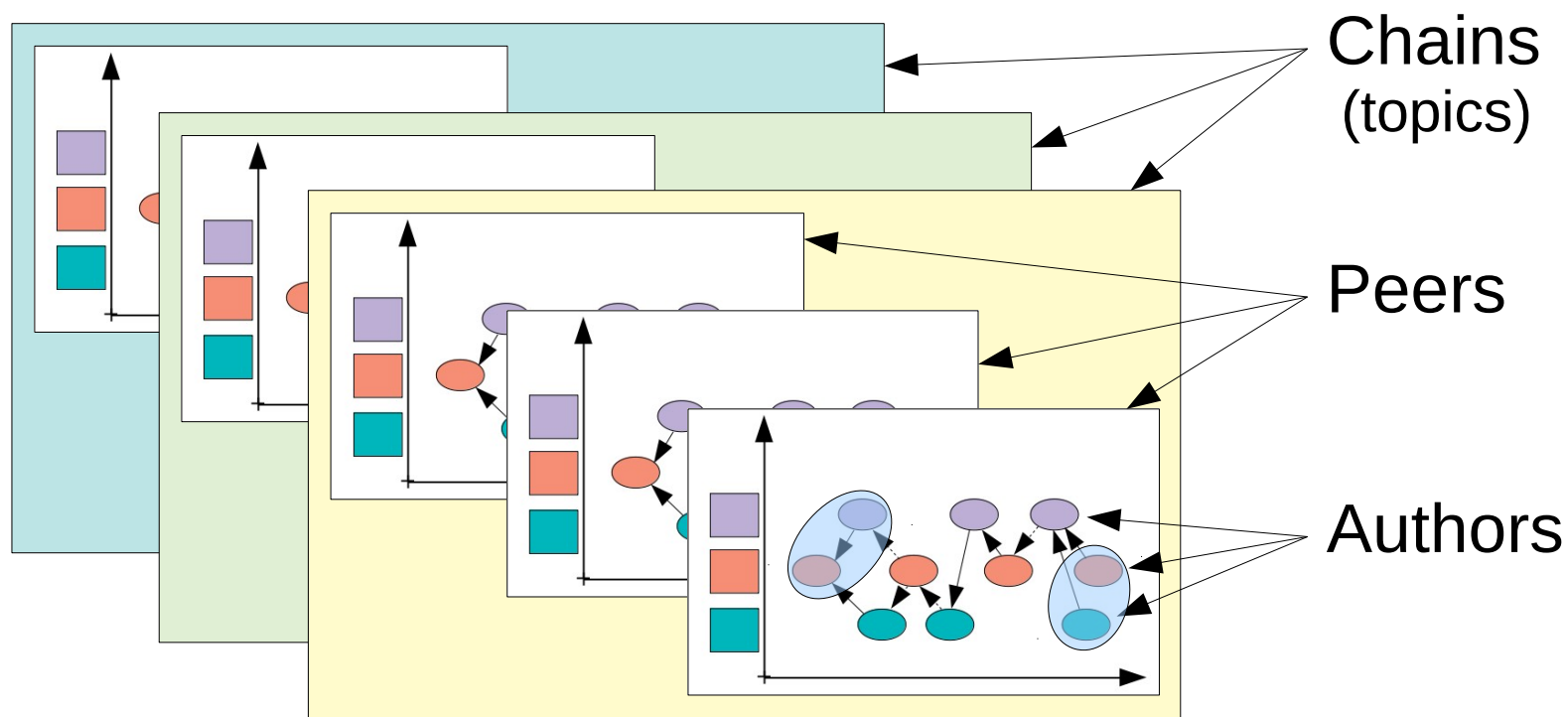


[@freechains\\_net](https://twitter.com/freechains_net)

**peer-to-peer content dissemination**

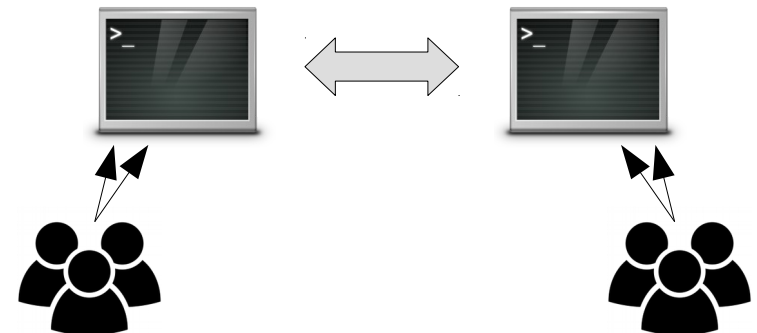
# Freechains

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



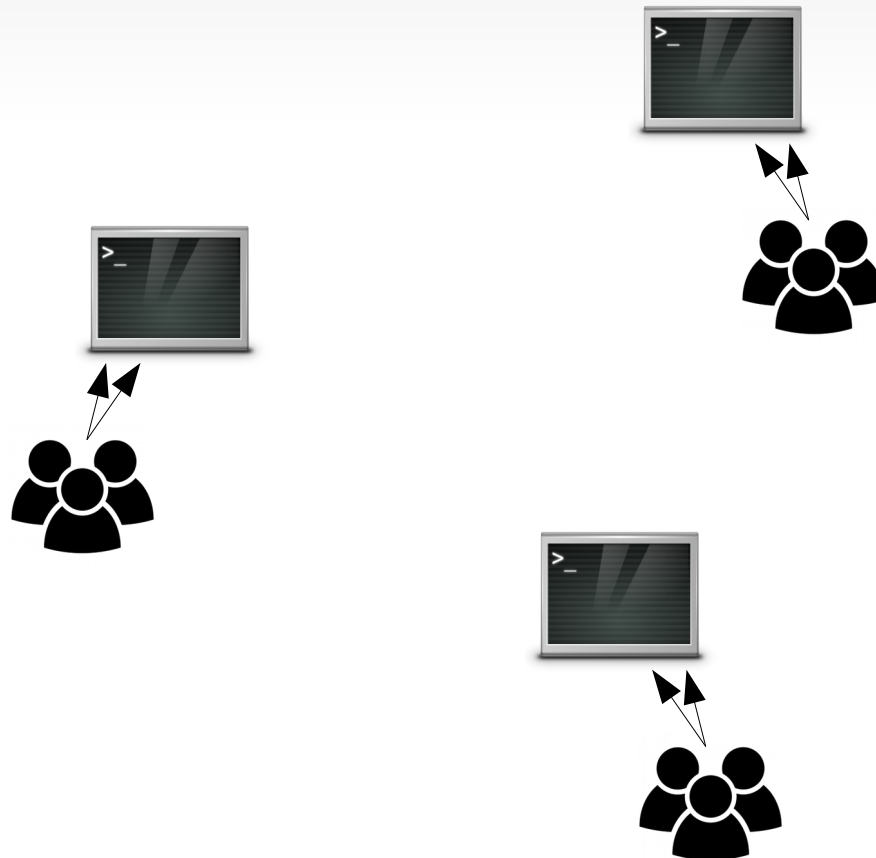
# Freechains

- 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



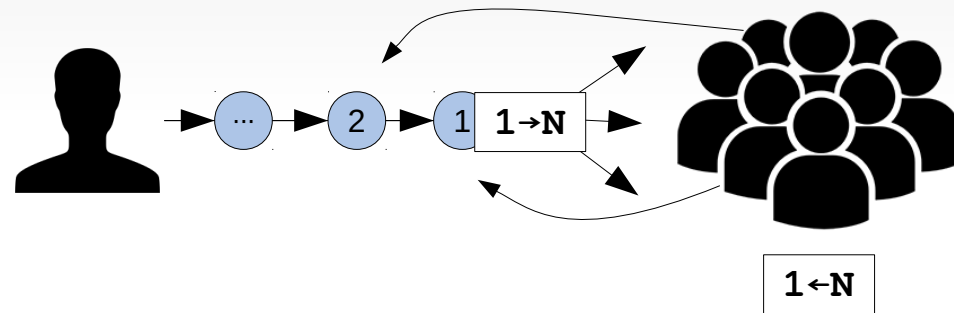
# Setup

```
$ 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..."
```

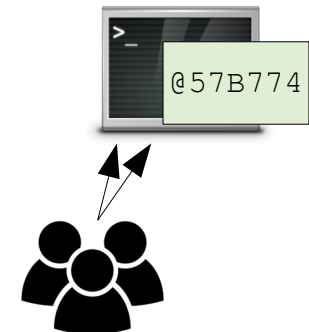
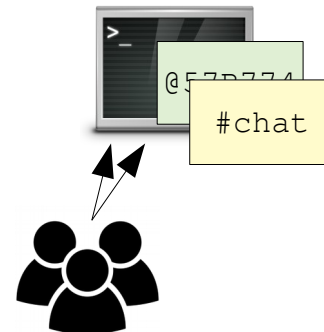
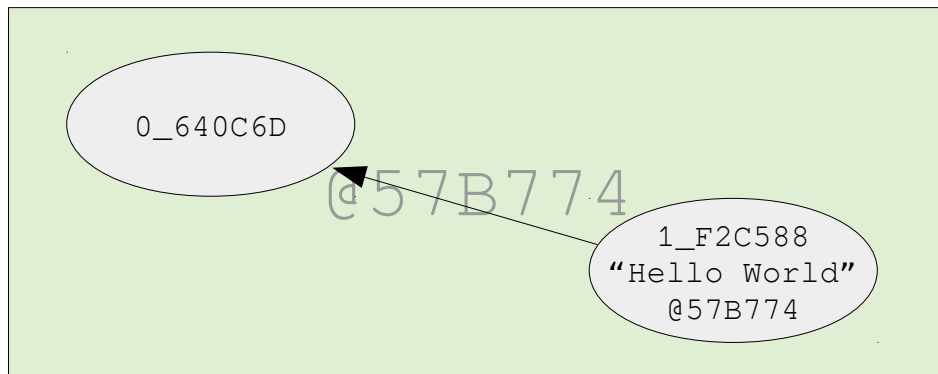
```
$ freechains chains join "#chat"
```

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

```
0_640C6D...
```

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

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



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

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

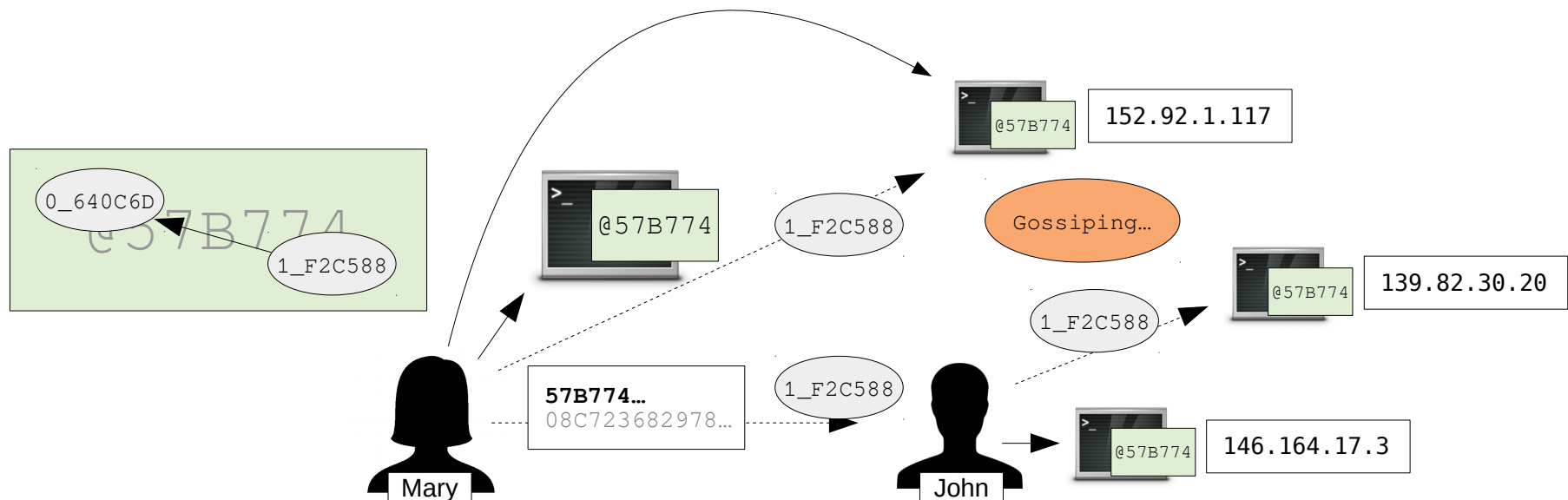
```
$ freechains chain "@57B774..." post
```

```
    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

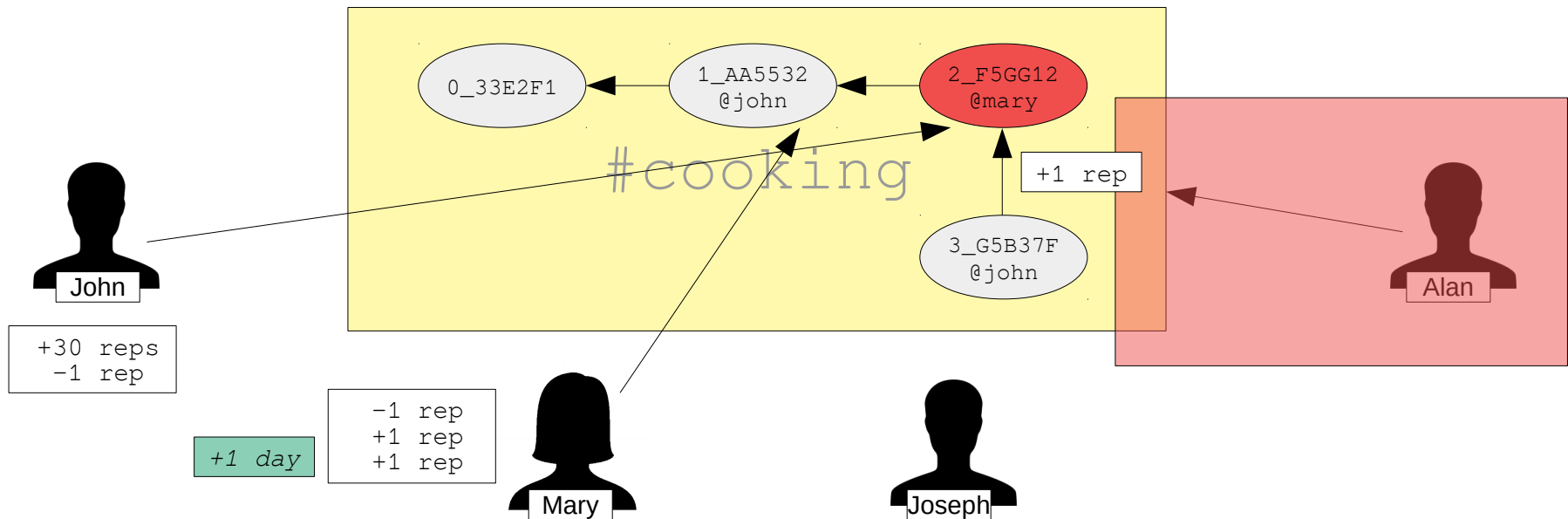
(N↔N)





# 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...  
$ freechains chain "#cooking" like 2_F5GG12...  
  --sign=7A553D12EE9A...
```



# 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

# Freechains



[www.freechains.org](http://www.freechains.org)



[github.com/Freechains/README](https://github.com/Freechains/README)



[freechains@freechains.org](mailto:freechains@freechains.org)



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

**peer-to-peer content dissemination**