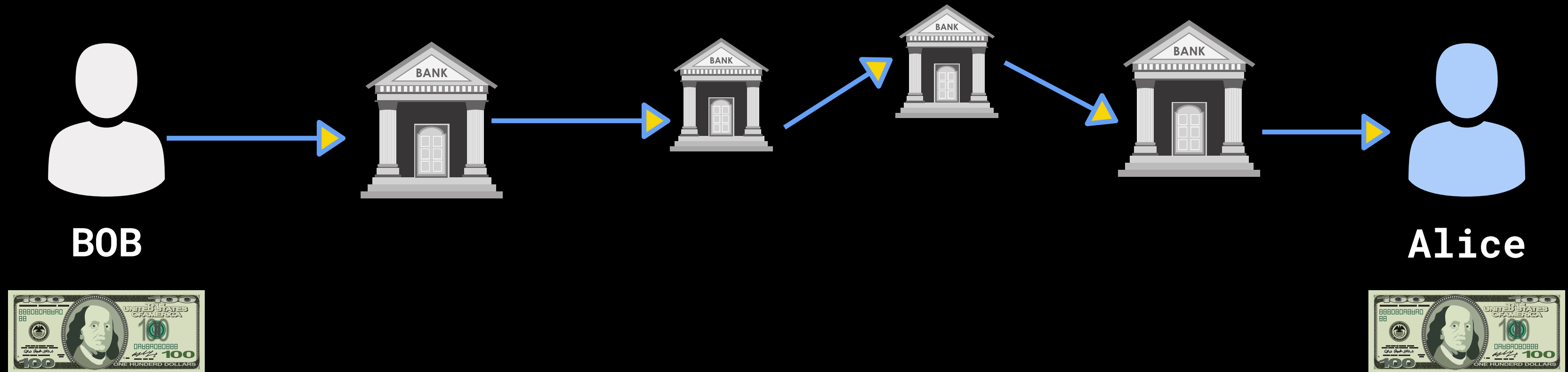# Fra Luca Pacioli (1447-1517)

- Italian mathematician
- Also known as **The Father of Accounting and Bookkeeping**
- Introduced the use of **ledgers** in accounting systems

The essentials of ledgers have for the most part remain unchanged **for over 500 year and** Pacioli ledgers are used everywhere today

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Ledgers are everywhere

Through a series of entries into the ledgers, 100$ are transferred from Bob to Alice.

Our whole financial system is only a system of ledger. When sending money, is just an entry into the ledger.

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Which ledger do you trust?

Lehman collapse sends shockwave round world

THE WALL STREET JOURNAL.

Mounting Fears Shake World Markets As Banking Giants Rush to Raise Capital

Morgan Stanley in Talks With Wachovia, Others

FT WEEKEND

Vanessa Friedman — Geometry, volume and bling at Paris fashion week

The crisis hits Europe — Policymakers react to fallout from the US

Massimo Ferragamo — Reinventing the luxury holiday in rural Tuscany

Wells swoop for Wachovia stuns Citi

Green light for bail-out fails to calm markets

WaMu is largest U.S. bank failure

By Elinor Comlay, Jonathan Stempel   8 MIN READ

NEW YORK/WASHINGTON (Reuters) - Washington Mutual Inc was closed by the U.S. government in by far the largest failure of a U.S. bank, and its banking assets were

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How it all started?

- Satoshi Nakamoto publishes **Bitcoin** paper during the financial crisis in 2008.

- **Blockchain** is the underlining technology behind Bitcoin.

"A purely peer-to-peer version of electronic cash would allow online payments to be sent directly from one party to another **without going through a financial institution.**"
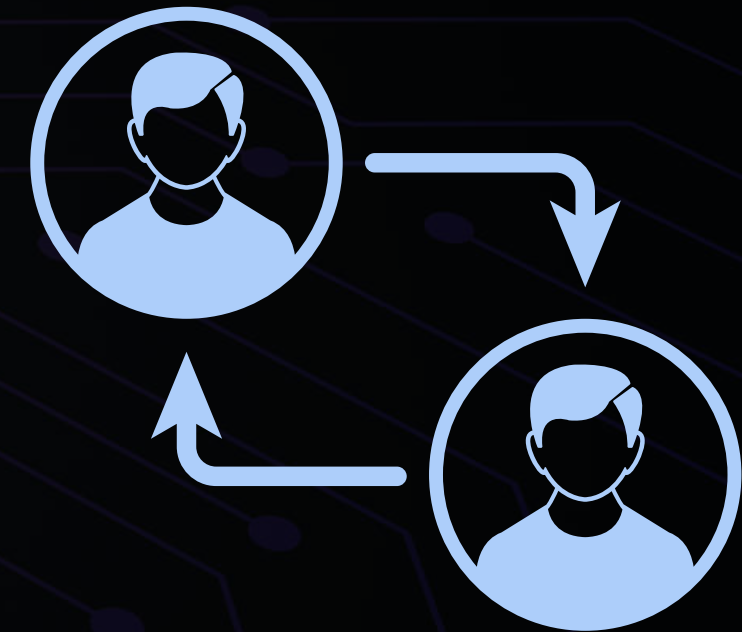
Satoshi Nakamoto

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Decentralized

✅ Each member has exact same copy of distributed ledger for complete transparency.

✅ Ensures that the entire system will not break down upon a single point of failure.

✅ Any data, once written on the blockchain cannot be changed or removed.

✅ Enables record keeping in different fields like court records, university degree records, digital voting, etc. which will make it impossible to forge records.
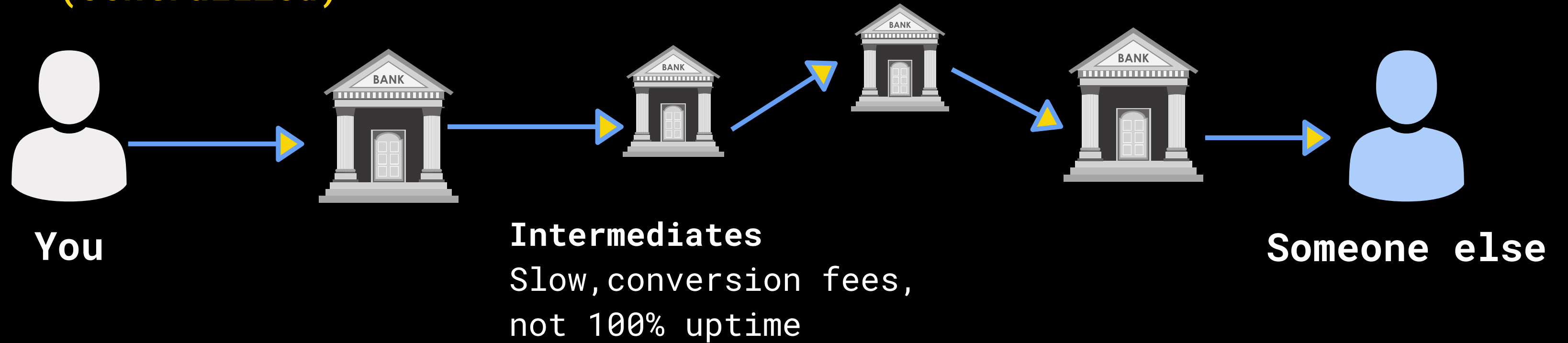
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Peer to Peer

- [x] The interaction between two parties is accomplished without the need of any third party.

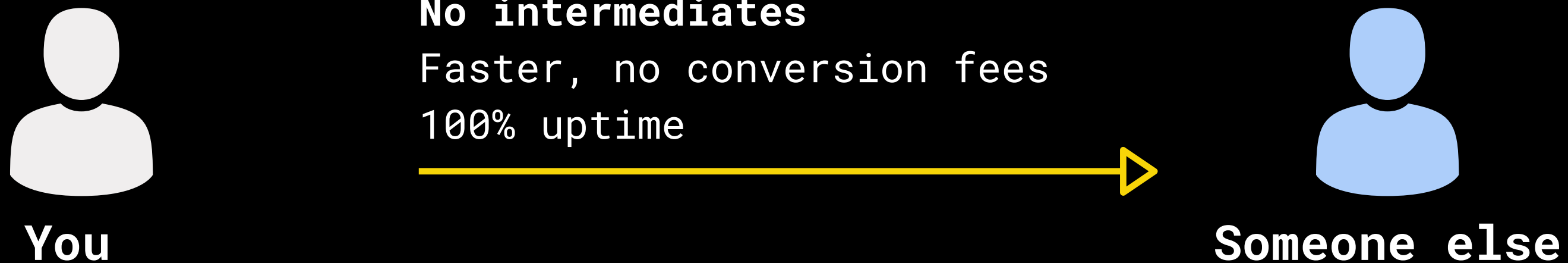- [x] Cross border transactions.

- [x] Blockchain removes the need for trust

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Cross Borders Payments

**Traditional Bank Transfer
(Centralized)**

You

Intermediates
Slow,conversion fees,
not 100% uptime

Someone else

**Blockchain Transfer
(Decentralized)**

You

No intermediates
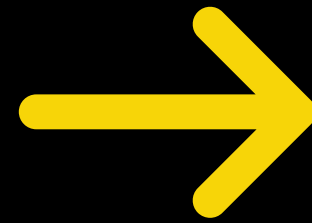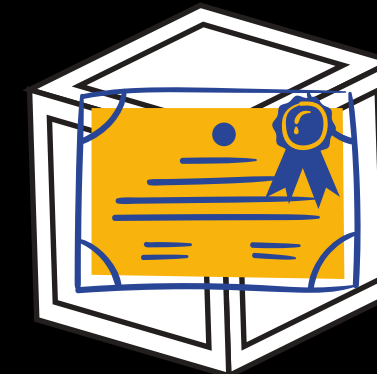Faster, no conversion fees
100% uptime

Someone else

PUNDI
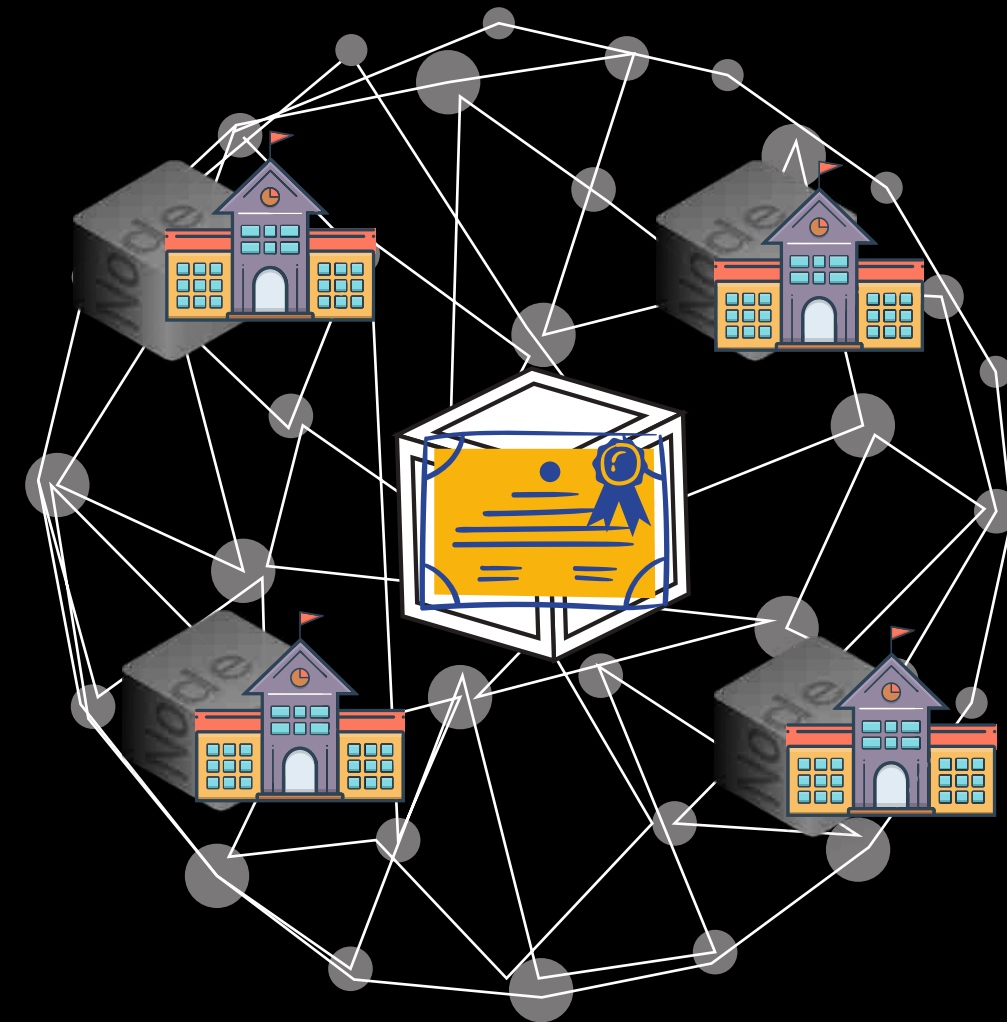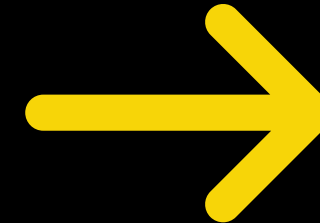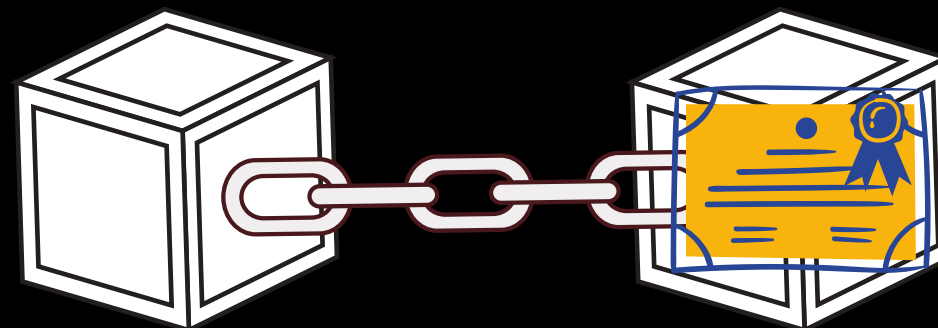365

Other **Blockchain** use case

BLOCKCHAIN FOR CERTIFICATES

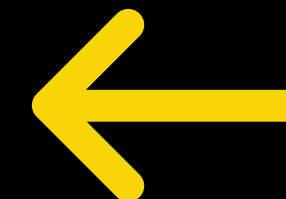Organisation issues the certificates

A block containing the certificate data, timestamp is created

The block is added to the chain and is linked with the previous chain

The block is verified and approved

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CERTIFICATE OF COMPLETION

THIS IS PRESENTED TO:

COMPETENCES GAINED:

ORGANISATION:

DYV✓

AGENZIA NAZIONALE PER I GIOVANI

Co-funded by the Erasmus+ Programme of the European Union

CERTIFICATE OF COMPLETION

THIS IS PRESENTED TO:

COMPETENCES GAINED:

ORGANISATION:

DYVO

Co-funded by the
Erasmus+ Programme
of the European Union

AGENZIA
NAZIONALE
PER I GIOVANI

Certificate Information

Name of Certificate	Licensing Authority	Date of Issuance	Hash
Certificate of Competency	The DYVO Project	2022-11-07	bb1420f3849c6458f3de58f5b975 5ac18d3e8d0e28fe149f66d229b4 b050aca6

VIEW & VERIFY

Message

General

Referenced by MS 2690653 at 2022-03-06 23:01

MESSAGE ID
846bf7e5f2b294050479e2d2583cab0ecdf13fe60fddb79a1388475dc26c4fe7

LEDGER INCLUSION
No Transaction   The message is referenced by a milestone, the data is included in the ledger, but there is no value transfer.

Data

INDEX
Turing Certs - d4d3139c1a64bb2ca6723df674b615927bfba036c78c090b8

DATA JSON

```
{
  "base64": "IRrtYEk58EtuCZkEJ81x+EBb5KDgYD7+jQ6L1kYPJ0V4tPO0nVc2kRCWnPTzzbbXvAcivh+Q1nEpmlFWe
tNEnc8+MK8Fy3kTyaQvKMpYvWHLjaFWwZcVT5P49/bveDA9dVYjQ+qMy9pcjZRSxEQ82GF4CMJnJuqu+UcaHFbeGL/5GQB
7Ohg3vx+5qpk2ONSkvhXKlmAERye+ZPlx7C0llceKKUPKDfLfo42mq3QnE4iGc4gthL1wj7uzo8z63/xrGU8bXTHKiE6Rj
n0ejB0JbbmM7HTx5g3zTB6938it5Bod7/SLc0Q2JDMnkrLtoF3aEcjfSx8L5pReir73TeMXag==",
  "version": 4
}
```

Stats

MESSAGES PER S
13.00 / 13.10

MILESTONES
2690700 8d2ba8
2690699 9ded42
2690698 3ed402
2690697 bba7ad
2690696 fd735fd

MESSAGES
Index   98c485
Index   4080b2
Index   b652dc
Index   c5a036

Thank you!

Andreas Harpas

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in andreasharpas