Introduction to Blockchain Technology

Objectives

Objective

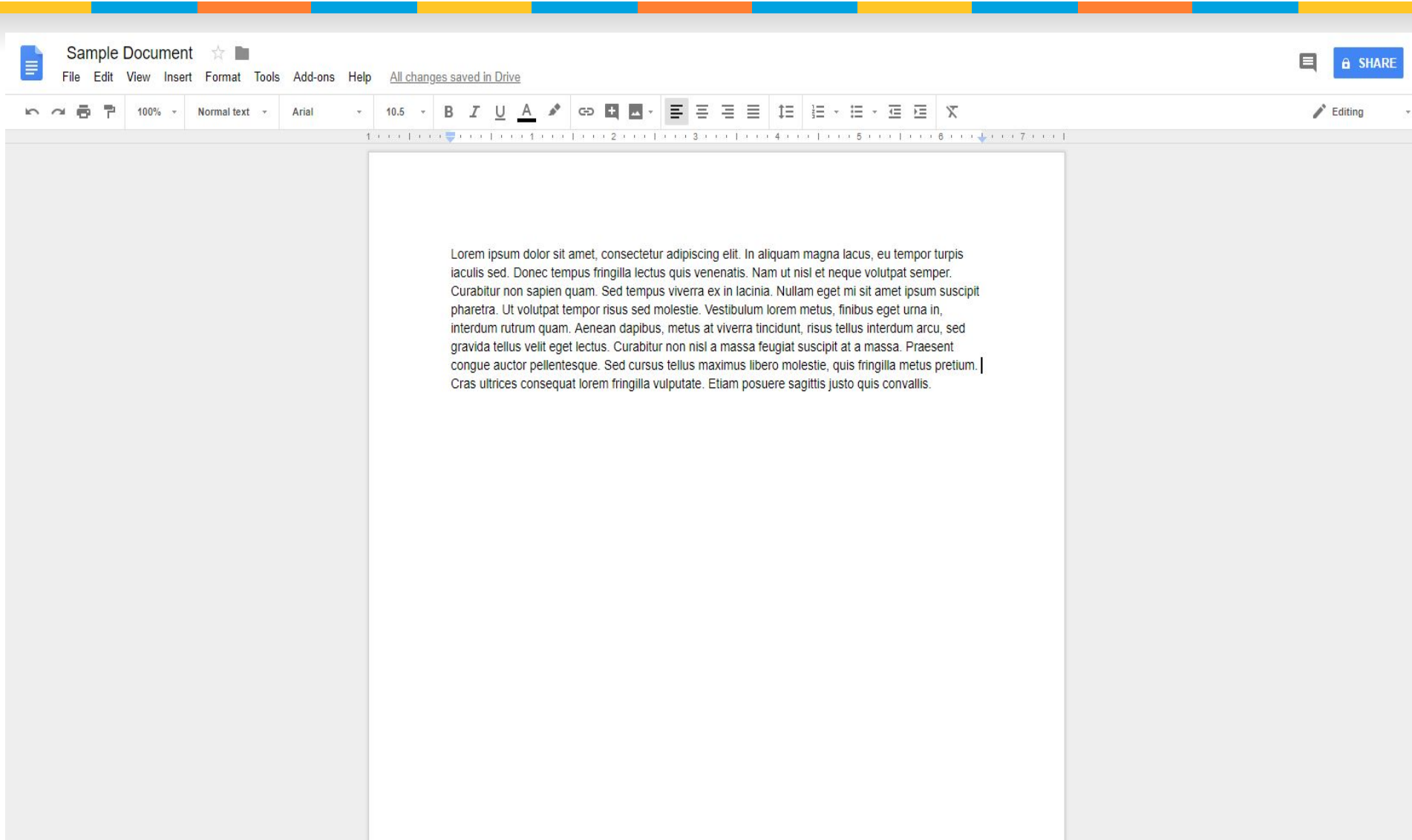Describe the basic blockchain data structure

Objective

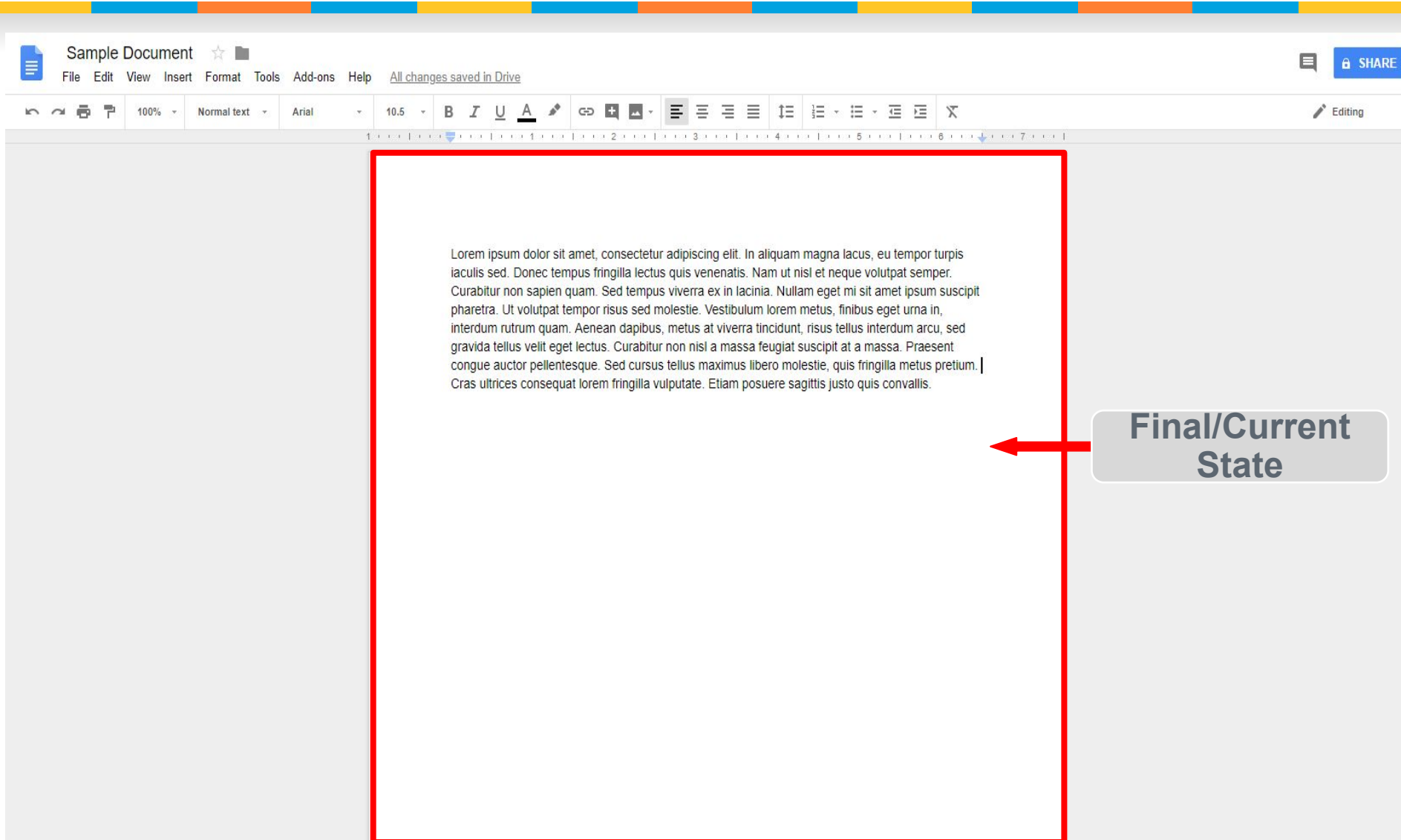Describe key benefits of blockchain technology

Objective

Identify an industry that can be improved with the benefits of blockchain

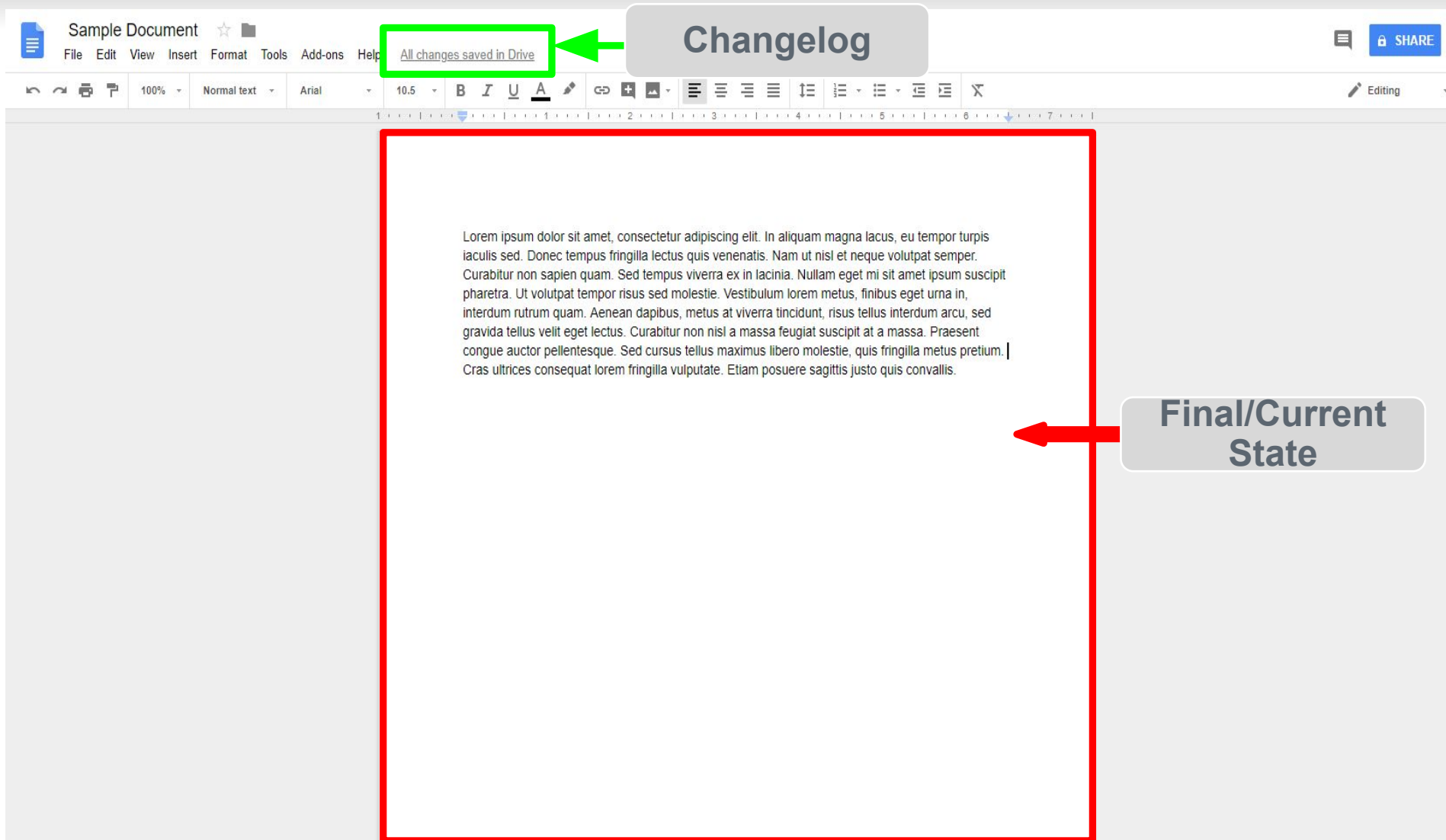# What is blockchain technology?

What is blockchain technology? (con't)

Final/Current State

What is blockchain technology? (continued)

Changelog - Detail

Changelog – Detail, continued

Changelog – Detail, continued (2)

Changelog – Detail, continued (3)

The Takeaway

Final/current state as an account
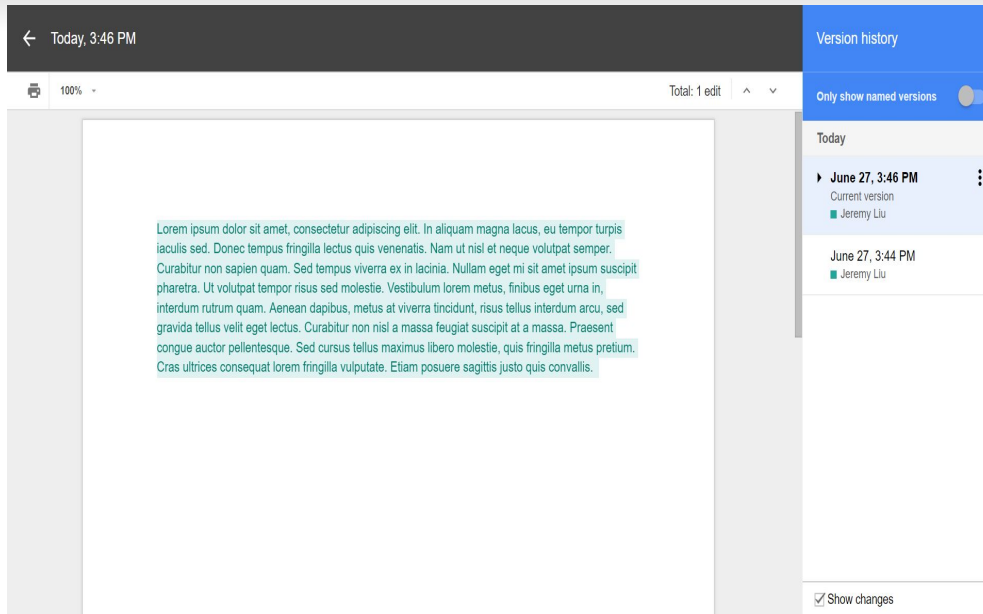
Alice:
  5 BTC
Bob:
  2 BTC
John:
  21 BTC
Joe:
  1 BTC
Amy:
  0.6 BTC
Leslie:
  43 BTC

From changelog to blocks

$$\Box \ \Box \ \vdots \ \Box \quad + $$
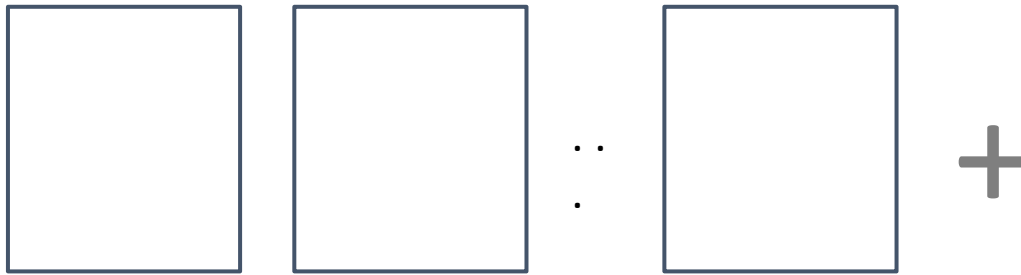
Alice:
5 BTC
Bob:
2 BTC
John:
21 BTC
Joe:
1 BTC
Amy:
0.6 BTC
Leslie:
43 BTC

From blocks to blockchain
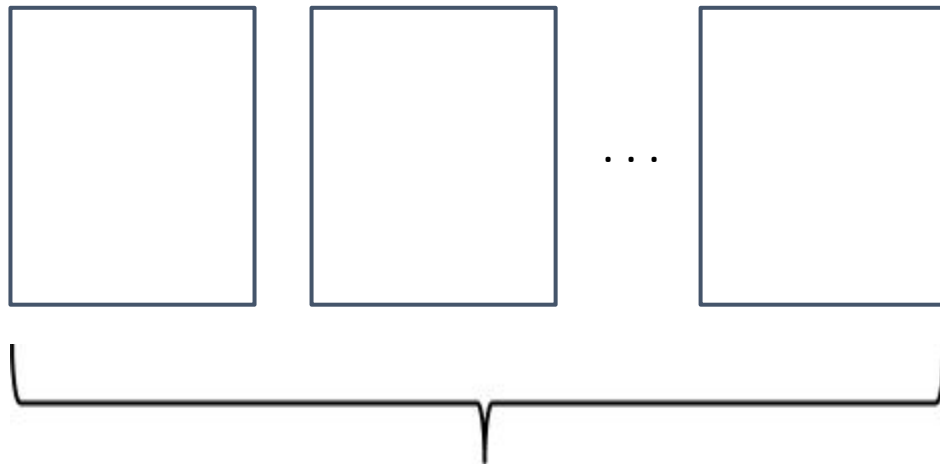

```
          ┌──────┐  ┌──────┐        ┌──────┐
          │      │  │      │        │      │
          │      │  │      │  ...   │      │
          │      │  │      │        │      │
          └──────┘  └──────┘        └──────┘
          └─────────────┬──────────────────┘
                        │
                   Blockchain
```

+

Alice:
        5 BTC
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        2 BTC
John:
        21 BTC
Joe:
        1 BTC
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        0.6 BTC
Leslie:
        43 BTC

Blockchain - detail

Block 100

Block 101

Block n

. . .