

What is log-structured data?

Append-only tables vs mutable tables

> Mutable example

User	Balance
Alice	52
Bob	21

> Log-structured example (immutable, append-only)

Timestamp	User	Transfer
15000000001	Alice	+100
15000000002	Alice	- 50
15000000003	Bob	+ 2
Totals are derived from sum of rows for a given user		

Log-structured storage is a foundational building block of safe, distributed systems.

- Provides strict ordering of writes
 - Immutable log of every change
- Ability to revert to any point in time

See: redux, CouchDB, Redis