

BLOCKCHAINS FOR DUMMIES

A "HELPFUL" BOOK

BY

PAUL SZTORC

... in one draft.

Chapter One : Database

* A Blockchain is a database.

Illustration :



* What is a database?

It is a "base" of operations, where you store your "data".

Name	Eye color	Height
Freb	Brown	74
Andy	Blue	80
Erin	Blue	68
:	:	:

A Database.

A NOTE ABOUT "LOGIC"

This book uses something called "logic".

P1) Socrates is a man.

P2) All men are mortal.

c1) Socrates is mortal.



Mortal Things

Men

Socrates

Sample

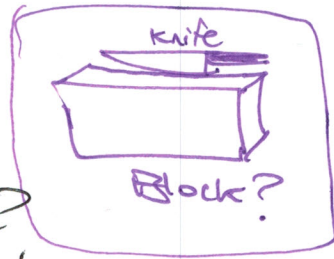


Chapter Two: Block, Chain

There's no agreed definition of "Blockchain",

because some people } aren't smart
(and/or)
} want consulting jobs
at banks.

Blockchain = Blocks, in a Chain



A chopping block?
A starting block?
An engine block?

No!

A conceptual block!

A graph!

Data Block

Battery Block

Soviet Bloc



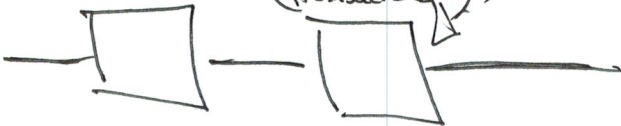
Yes!!

Chain?



Chain necklace, with jewels.

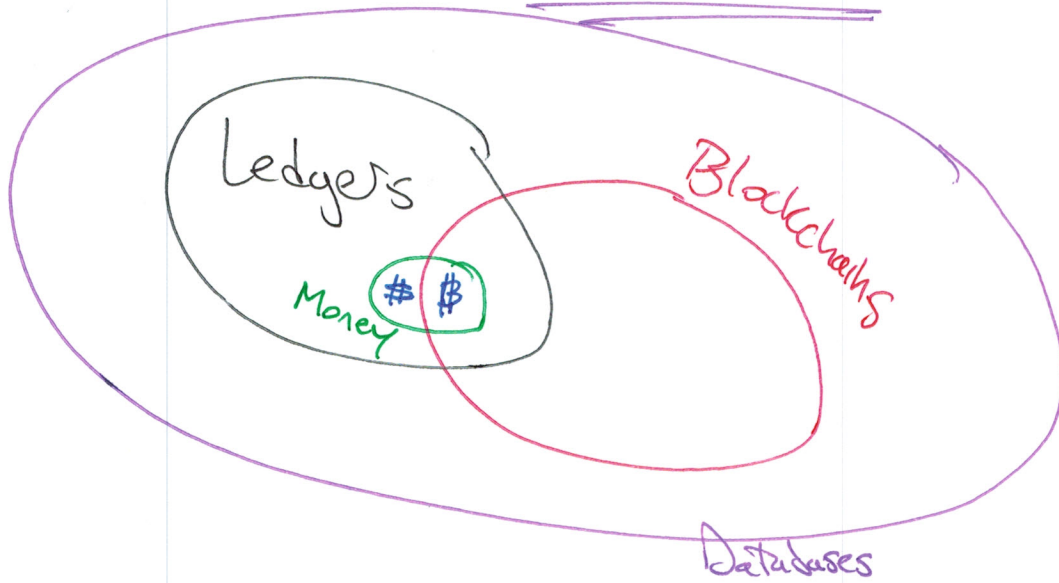
(group of transactions)



Block chain, with data blocks

Chapter Three: Internet Money

Money is a database of favors.



Bitcoin in the 1970s

• Digital signatures / identities, invented in the 70s!

• Protocol:

1. Register
2. Buy Coins
3. Transfer Coins

"It's as easy as
"1" "2" "3" "!"

- Michael Jackson, or
P-Cast

Chapter Four: Losing the Database

[PART ONE]

Cash is slow.



CASH



+ INTERNET

=



FROWN
FACE

Solution: Use banks. (and/or 3rd parties).

BANK = FAST, CHEAP DATABASE

Quote

"Because that's where the money is."

- Willie Sutton, on why he robs banks

(PRIVATE)

CASH

\$ 1,000

Invest 30 years
@ 8%

≈ \$ 10,000.00

(30 years later)

(??% INFLATION)

BANK (NOT PRIVATE)

\$ 1,000

US TAXES IN 2010

ACCORDING TO HARVARD
ECONOMIST GREG
MANKIWI

39.6% FEDERAL *

1.2% DEDUCTION PHASEOUT

3.8% MEDICARE

5.3% (MA) STATE *

35.0% corporate

= capital gains

SS % ESTIM

6.25% SALES

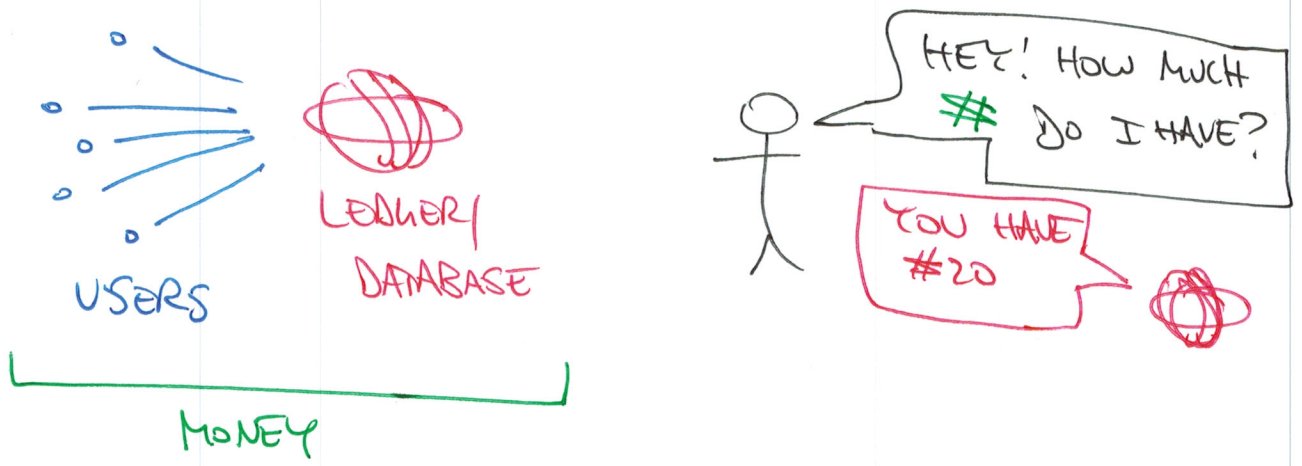
≈ \$ 940.00

(30 years later)

(??%)

Chapter Four: Losing the ~~ledger~~ Database

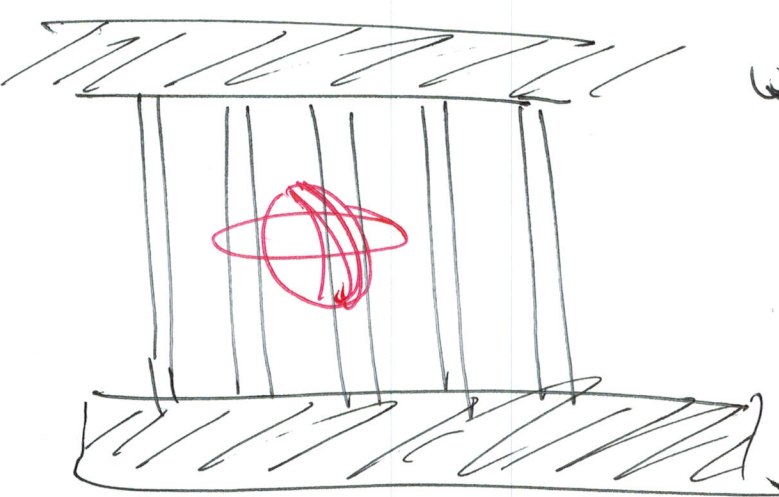
[PART TWO]



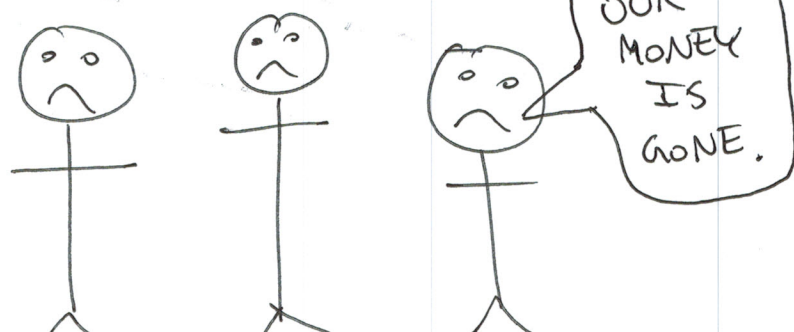
Those (e Gold Liberty Dollars Liberty Reserve)

who tried to mix properties of cash with properties of database

were **imprisoned** and the ledger was **destroyed**.

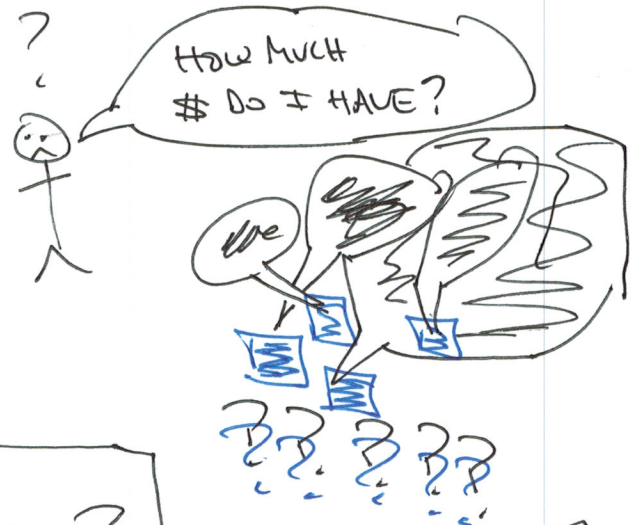
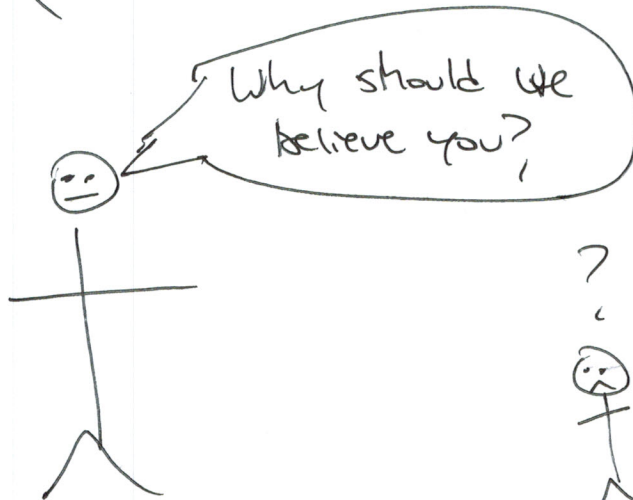


The slammer.



Chapter Five: RECOVERING DATABASE

People like to lie about how much \$ they have.



Which database is the correct version?



DATA HAS BEEN LOST UNRECOVERABLE

...maybe I should shut up.

Chapter Six : Blockchain Solution

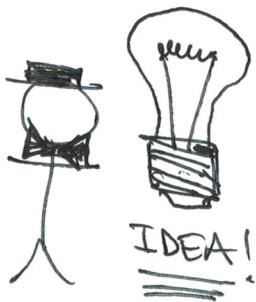
Database A

Database B

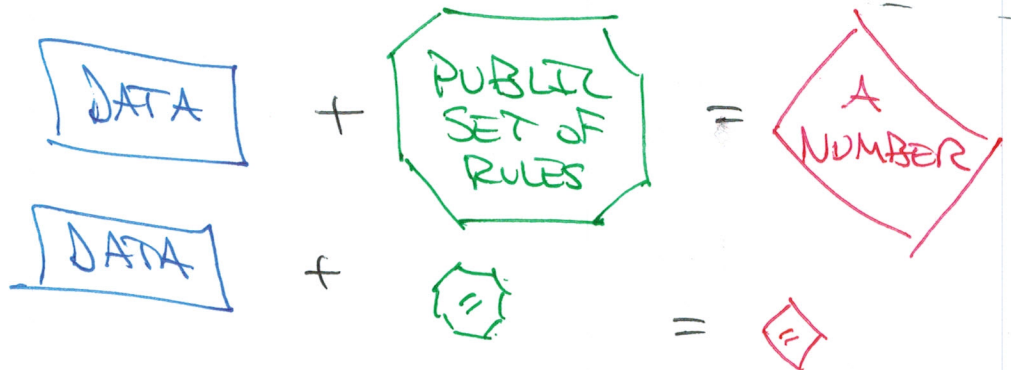


HOW TO TELL WHICH OF THESE IS THE REAL ONE?

Satoshi Nakamoto



IDEA!



What if every database had a number?

Then we could agree to pick the highest number.

Database A
Score 8

Database B
Score 12

("heaviest chain rule")

THE END!