

Let's take that analogy further into the shared documents domain, and think about what happens when we share a document where two or more users need to make changes to it.

Google Docs

The traditional way of sharing documents with collaboration is to send a Microsoft Word document to another recipient, and ask them to make revisions to it.

The problem with that scenario is that you need to wait until receiving a return copy before you can see or make other changes, *because you are locked out of editing it until the other person is done with it.*

That's how databases work today. Two owners can't update the same record at once. That's how banks maintain money balances and transfers; they briefly lock access (or decrease the balance) while they make a transfer, then update the other side, then re-open access (or update again).

With Google Docs (or Google Sheets), both parties have access to the same document at the same time, and the single version of that document is always visible to both of them. It is like a shared ledger, but it is a shared document. The distributed part comes into play when sharing involves a number of people.

Imagine the number of legal documents that should be used that way.

Instead of passing them to each other and losing track of versions, why can't *all* business documents become shared instead of transferred back and forth? So many types of legal contracts would be ideal for that kind of workflow.

You don't need a blockchain to share documents, but the shared documents analogy is a powerful one.

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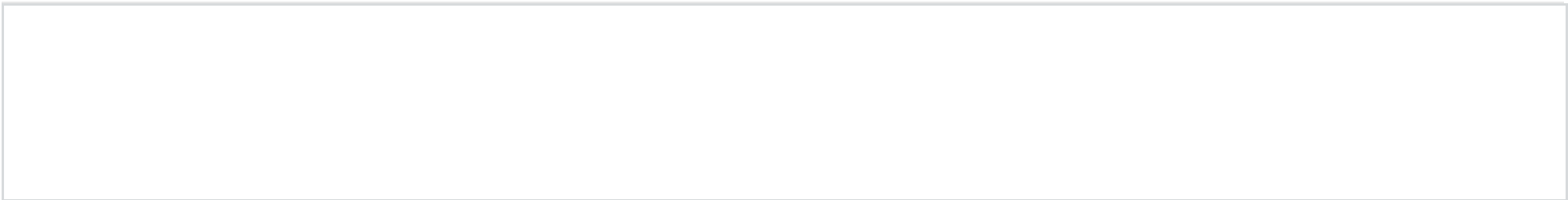
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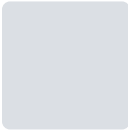
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"The distributed part comes into play when sharing involves a number of people."

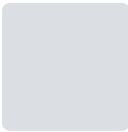
I think this is where the analogy departs from the reality of blockchains.

Bitcoin isnt "distributed" so that we can share and give everyone unlimited access to the blockchain.

Bitcoin is available to all, but compartmentalized so that any given user can only alter their portion of the blockchain, according to strict rules.

The blockchains "killer app" is still it's use as sound money.
Go Honeybadger!

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Dinofelis • a day ago

The "shared document" analogy illustrates perfectly the problem. Suppose that we have a document where the title is "go go block chain". Now, *I* want to change that in "go go database", and my colleague wants to change that into "giga blockchain", and we are editing simultaneously.

What happens ? In the "traditional" back and forth way: the last one to change the document gets his thing done. I send the document to Jack, who modifies the title into "giga blockchain". I get it back, the lock is now with Jack, and I get what I want: "go go database"

database .

What happens with Google docs ? We fight: he changes it, I change it, and we end up with something like "gigao datachain" when the link breaks down. But there is still a single document.

What happens with a block chain ? It forks. We have now two chains, one with the last block "title = giga block chain"< and another one with the last block "title = go go database".

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bruno cecchini → Dinofelis · 11 hours ago

Your analogy only apply for public blockchain, is the referee paradox that create the gridlock.

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Dinofelis → bruno cecchini · 6 hours ago

The essence of a block chain is the "struggle for the single chain" which is supposed to be won each time by the "immutable and honest" chain. It is the fact that all possible forks can and may occur, but that, by lack of collusion over anything else but the original protocol, only the "immutable, original protocol one" will survive. If you have any other way of arbitrage, through a centralized authority, then it is not a block chain (even if it contains blocks that make up a linked list of hashes).

In other words, if there is an agreed-upon referee who has "power to decide", then your thing is not a block chain, but a signed database, because your referee has a signature that nobody else has.

In the bitcoin block chain, the arbiter is simply PoW: the chain which has the highest amount of PoW muscle will win. A pure PoS chain is or self-defeating, or the final arbiter is the creator of the genesis block (the only guy who can construct a totally new chain with the same genesis block, and assign himself all PoS at every instant).

The immutability and the coherence amongst the distributed versions of the

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