

# Blockchains:



# Blockchains: Machinery



# Blockchains: Machinery for being really,



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Machinery for being really,  
really,



Blockchains:  
Machinery for being really,  
really, REALLY sure!



# How to be sure without blockchains:

- Get it in writing
- Get trustworthy people
- Have multiple people watching
- Pay them well
- Build long-term relationships and brands
- Have it audited

**Very** expensive and time-consuming!

# How to be sure with blockchains:

- Get it in code
- Get trustworthy math
- Have multiple multiple computers checking the math
- Incentivise correct behaviour
- Never delete anything; record long-term digital guarantees
- Have it all audited in real time

Automating trust is cheaper, faster, and safer!

We live in a world of **exacting standards** for our data, especially in **finance, identity, legal and commercial arrangements**, and **computer security**



We need to be really, really, **really** sure!

Blockchains can be sure **who** did  
something

Blockchains can be sure **what** it was that  
was done

Blockchains can be sure **when**  
something happened

Blockchains can be sure **how much** of something there is

Blockchains can be sure **how**  
**committed** someone is

Blockchains can be sure **things haven't  
changed**

When we combine all of these things correctly, blockchains can achieve the holy grail of certainty:



Blockchains can be sure **what will  
happen in the future**

**Takeaway thought:**

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The internet enabled us to create a  
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The internet enabled us to create a  
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Blockchains enable us to create a  
worldwide web of **certainty**.