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6000 Years Ago...







Everything Old Is New Again..







Early Ledger Technology











Early Ledger Tech: Not Privacy Preserving!









Blockchain







In Reality: Flat File Database







Blockchain







Where Can Enterprises Use Blockchain?



- Cross team or cross organization transactions, auditing, and dispute resolution
- Auditable Chain keeps audit record of data and state
 - Instant auditability if transactions are properly synced
 - Maintenance records, accounting, etc
- Permissioned gated by member system
- Privacy If properly utilized



Early Computing: Mainframe







Ethereum: A "New" Computer







Early Program Storage Tech: ROM

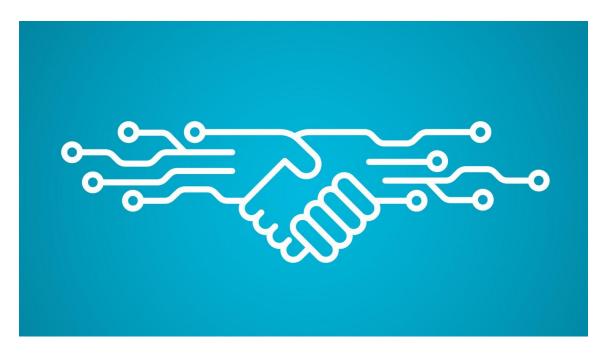






Smart Contracts







Smart Contract Bug Classes







Ethereum







History Repeats Itself















RS/Conference2018

















Repeat Until 5 Copies Print









Computers: Great At Looping Humans



Comp	Deter	Reliable	Available	Comms	Security	Distrbu	Fault Tol	Scalable	Isolation	ID
Main	X	X	X				X		X	
PC	X				X				X	
Web	X		X	X		X		X		X
Mobile	X	X	X	X	X	X		X		X
Cloud	X	*	*	X	X	*	*	X	X	
IoT	X			X		X		X		
DAPP	X	X	X	X		X	X			



How Cross Org Syncing Is Still Done













Hyper Ledger Fabric





HYPERLEDGER



Quorum and Hyperledger









Where To From Here?













The Applied Realities



- Enterprise Blockchain are trusted platforms for publishing distributed applications.
- This platform is the integration of a computer, P2P network, and a database.
- Smart Contracts are the apps that run on this platform.
- The help solve problems where there is no central authority but there must be trust between parties.





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