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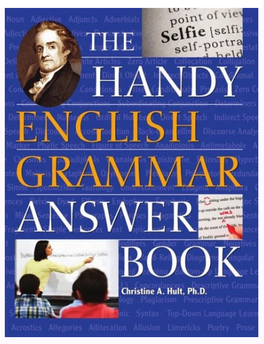

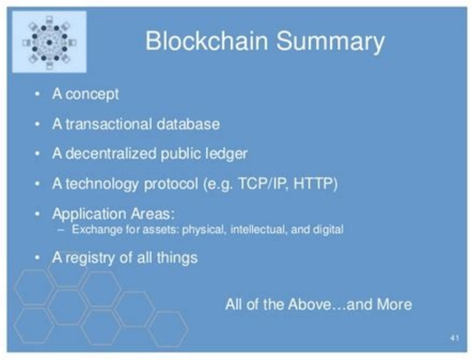

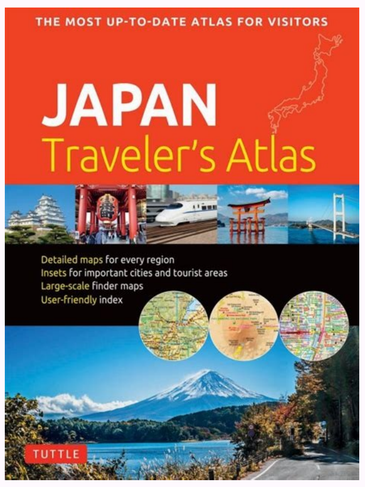

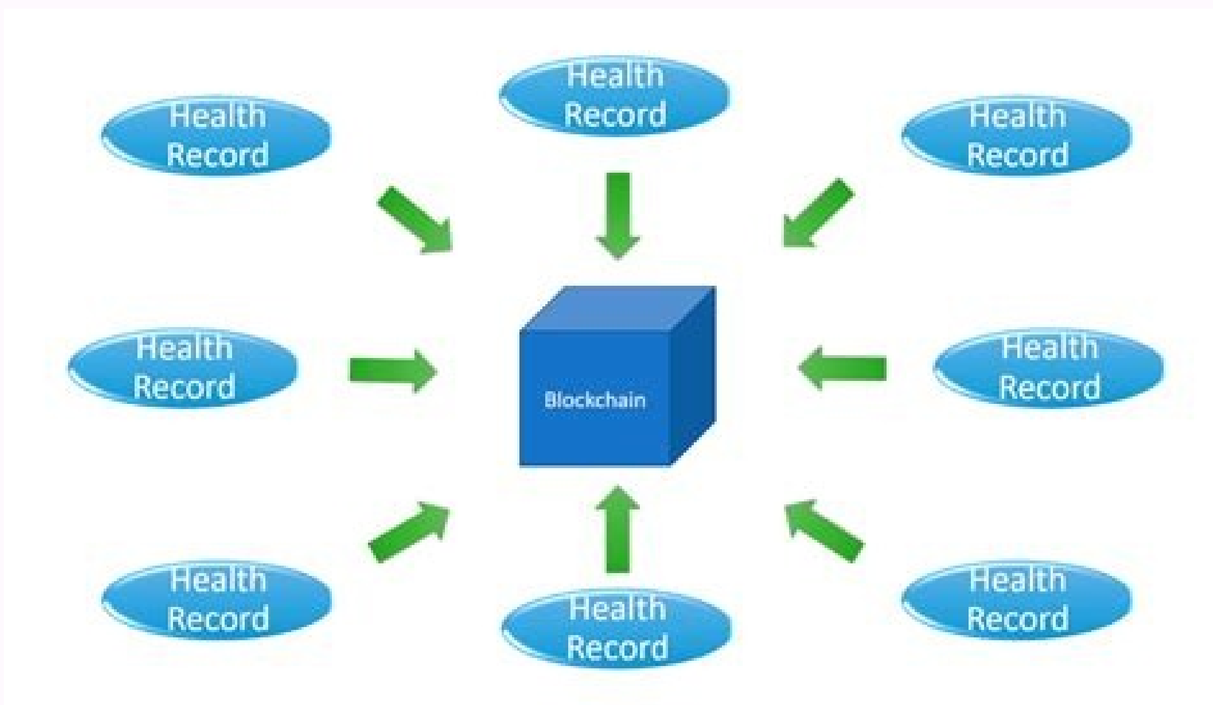

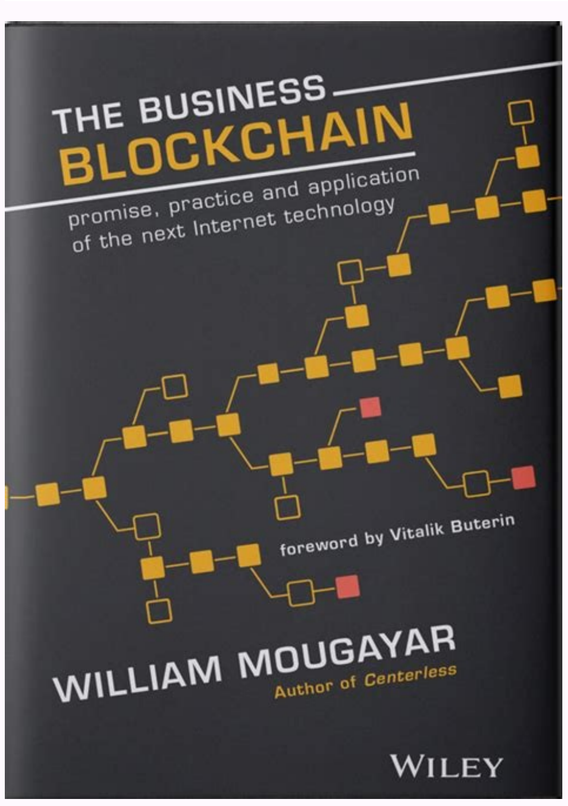

The business blockchain.

This book is good for those who want to open the world door blockchain in “blockchain for dummies” mode. I was one of these, and the content was informative/new for me. Mougayar presents a pretty definition for blockchain: public economic consensus. Blockchain is Trust 2.0, is the decentralization of trust. The current paradigm is that trust is a fundamental function of the state/government, we have all seen that the traditional control of trust has become the consuming, expensive and frictional time This book is good for those who want to open the world door blockchain in “blockchain for dummies” mode. I was one of these, and the content was informative/new for me. Mougayar presents a pretty definition for blockchain: public economic consensus. Blockchain is Trust 2.0, is the decentralization of trust. The current paradigm is that trust is a fundamental function of the state/government, we all testified that the traditional control of trust became time consuming, expensive and frictional process/service, because not the Blockchain be a solution. Why do we need central authority to ensure central trust, if we can achieve the same reliability through a network where trust is incorporated into it? So far Blockchain has manifested itself in the following ten revelations: 1. Cryptocurrency, 2. decentralized computing infrastructure, 3. transaction platform, 4. Decentralized database, 5. The shared distributed accounting log, 6. software development platform, 7. Open source software, 8. Financial Services Market, 9. Peer to peer network, 10. level of trusted services. The authors raise the following seven principles in which we have to believe to authorize decentralized trust:1. Blockchain is not a disintermediation of trust, it is the remediation of aibmac aibmac ,aicudif al animile noN 3. 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This book aims to fill this gap. is an invaluable tool for anyone who is ready to take the big step and start taking advantage of this amazing technology. technology. MIT; columnist, WSJ CIO Journal; VP Emeritus, IBMBlockchain enables enterprises to reinvent processes and business models and to pursue radically disruptive applications. Blockchain for Business is a concise, accessible, and pragmatic guide to both the technology and the opportunities it creates.Authored by three experts from IBM's Enterprise Blockchain practice, it introduces industry-specific and cross-industry use cases, and reviews best-practice approaches to planning and delivering blockchain projects. With a relentless focus on real-world business outcomes, the authors reveal what blockchain can do, what it can't do yet, and where it's headed.Understand five elements that make blockchain so disruptive: transparency, immutability, security, consensus, and smart contractsExplore key use cases: cross-border payments, food and drug safety, provenance, trade finance, clinical trials, land registries, and moreSee how trusted blockchain networks are facilitating entirely new business modelsCompare blockchain types: permissioned, permissionless, private, public, federated, and hybridAnticipate key technical, business, regulatory, and governance challengesBuild blockchain financial models, investment rubrics, and risk frameworksOrganize and manage teams to transform blockchain plans into realityWhether you're a senior decision maker, technical professional, customer, or investor, Blockchain for Business will help you cut through the hype and objectively assess blockchain's potential in your business.Register your product for convenient access to downloads, updates, and/or corrections as they become available. The Blockchain is a revolution promising a new world without middlemen. Technically, it is an immutable and tamper-proof distributed ledger of all transactions across a peer-to-peer network. With this book, you will get to grips with the blockchain ecosystem to build real-world projects. This book will walk you sseltsurt nihtiw tsurt hsilbatse ot elba era ew ,yrotsih ni emit tsrif eht roF .ammelid laicnanif devlosnu ylsuoiverp a ot noitulos a stneserp ti taht si siht rof nosaer ehT .dnert gnissap a ton ylniatrecÃÂÂ¢deviecnoc saw ti nehw tenretni eht ot ralimis ,noitulover a syaw ynam ni si niahckcolB .smetsys laicnanif gnitsixe ruo gnikaerb yllaitnetop ,eulav fo tenretni eht ot noitamrofni fo tenretni eht morf su evom ot yticapac eht sah niahckcolB .tenretni eht revo)noitazinekot(stessa laer ro eulav refsnart ot lennahc yhtrowtsurt a elpoep reffo ot ytiliba sti no desab yliramirp si laitnetop sihT .sdleif tnereffid ynam ezinoitulover yllacitamard ot laitnetop eht sah taht ygolonhcet gnigreme na si niahckcolb ,wonk thgim uoy sA .epyh eht dniheb s'tahw ,tniopdnats s'repoleved a morf retpahc tsrif siht ni ,Revocsid .koob siht gnidaer era uoy yhw nosaer eht neb tgim ofâ€â€â¢ÊânoitseuQ Siht ssorca emoc ro Draeh evah tsum ,of dnuora eht ? â â â â smetsys detutirtid Elbalacs dna Elbailer dna ,metsysoce niahckcolb eht by Seussi Nommoct Elkcat ot Elba Eb Ylno ton steh yht yht yht yht yht yht yht yht yht yht yht yht yht yht yht yht yht yht yht yht yht yht yht yht yht . ylppus ,smetsys tnemyap nioctiB sa hcus stcejorp fo egnar a srevoc osla elpmaxE yb niahckcolB .ycnerrucotpyrc nwo ruoy etaerc neve dna ,OCI ruoy nur ,ssenisub rof stcejorp niahckcolb dliub ot nrael llÂÂÂ¢uoy ,sretpahc gnidulcnoc eht nI .tnemeganam elif detubirtsid dna ,noitargetni ,ytilibalacs sa hcus smetsysoce niahckcolb htiw detaicossa era taht segnellahc rojam eht revoc lliw uoy ,sretpahc eht hguorht yaw ruoy ekam uoy sA .testuo eht morf evitcudorp eb ot redro ni regdelrepyH dna ,murouQ ,muerehtE ,nioctiB ,seigolonhcet gnidael s 'dleif eht tuoba hguone tsuj Uoy hcaet hcaet tcejorp hcae .seldruh dna slevelpmocmoc tnereffid htiw stcejorp niahckcolb elpitlub fo ssecorp eht elled airots al e ottecnoc li erecsonoc a odnarapmi omereizinI .niahckcolb allad itlosir onos imelborp ilauq oizini'llad eriraihc oirassecen ais ehc oderc ,otnatreP .ettemorp iggatnav ilauq o evlosir imelborp ilauq araihc aedi'nu omaibba non ehc ottaf la otuvod etnemlapicnirp ¨Ã ²ÃiC .ongosib orebberva en ©Ãhcrep e niahckcolb alled esab alla ittecnoc i e acigol al eripac eliciffid onavort itloM .eraizini rep dlroW olleH id oipmese osomaf li odnasu ,niahckcolb al noc erigaretni emoc omeriripocs e acitarp ¨Ãras etrap adnoces aL .esab id ittecnoc ¨Ãrrudortni etrap amirp al ,etnatsottos aifargottirc alla atulavotpirc id gnidart li ,olotipac otseuq nI li :eirpoc ednetni non olotipac otseuq ,aivattut ,niahckcolb id ipit ied acimaronap anu tpircSavaJ odnasu nioctiB niahckcolb anu ni itad i eraivihcra emoc nioctib erevecir e eraivni emoc ¨Ã niahckcolb ehc ²Ãic ¨Ã atulavotpirc elauq :itnemogra itneuges i omerettart ,olotipac otseuq nI .orbil otseuq ni itatneserp ittegorp irav i eriurtsoc rep oirassecen odnofs ol itrinrof id olleuq ¨Ã ovittudortni olotipac otseuq id elapicnirp ovitteibo'l ,acincet onem arutan aus al etnatsonon ,aivattuT .ittartsa ittecnoc eremirpse id ecevni ,otnemec ni niahckcolb id ittegorp eriurtsoc id olleuq ¨Ã orbil otseuq ni omeriuges ehc oiccorppa'l ,orbil led emon li ecsireggus emoC .avitsepmet ¨Ã aigoloncet al erecsonoc id atlecs aut al ehc eramrefnoc id e otnemogra ortson led aznatropmi'lled oiggassa nu itrad id odnacrec ots ,enoizudortni everb atseuq osrevarttA .reep-ot-reep odnom nu osrev icodnegnips-tenretnI ehcna-aigoloncet alla onrotta onatour ehc ipmac i ittut isauq erinifedir rep etrop el erpa iraidemretni ilg erarigga id ¨Ãticapac aus al ,itteffe nI .oiraiznanif erottes led otnemartneced ecilpmes li ertlo neb av" emrone ¨Ã niahckcolb alled ottapmi elaiznetop lI .airaicudif anihccam emoc niahckcolb alla onocsirefir is inucla ,azneugesnoc iD . Ãtirotua'nu us otnemadiffa eraf aznes ,)tenretnI emoc(li li arE .osivvorpmi'lla osrappa ¨Ã non niahckcolB of the evolution of fintech and virtual currencies over the last few decades. At the end of the last century, the widespread use of the internet favored the emergence of digital currencies as an extension of electronic cash systems. Many projects were developed to create new digital currencies: E-cash, E-gold, WebMoney, and Liberty Reserve, to name just a few Despite huge success in the 1990s, these projects had ceased to exist by the beginning of the new century, either through bankruptcy or being halted by authorities. A currency which is capable of disappearing overnight is a real financial nightmare, but this situation was inevitable due to the centralized nature of such digital currency systems. There was also always a need for a central authority to be involved, to fight fraud and manage trust within the system. Because of this fatal weakness, the opposite, decentralized model was presented as a solution. However, it was hard to establish trust in such environments without any central authority. This contrast made creating a reliable digital currency a disentangled Gordian Knot. Thankfully, the progress of cryptography and the emergence of some clever solutions such as proof of work (for example, the hashcash Project¢ÃÂÂsee) brought hope of breaking the deadlock. In 2008, Satoshi Nakamoto rose to the challenge and unveiled a digital currency called bitcoin. This new currency effectively harnessed cryptography techniques to manage ownership and to secure the system¢ÃÂÂhence the name cryptocurrency. Satoshi solved the aforementioned problems by introducing what he called initially a chain of blocks. In his published whitepaper (see , he presented his vision for a new peer-to-peer electronic cash system¢ÃÂÂbitcoin¢ÃÂÂand described in detail its underlying machinery¢ÃÂÂblockchain. Bitcoin was the first reliable and distributed electronic cash system that's fully supported by the following basic concepts: encryption to guarantee ownership and identity a work-proof consent mechanism to validate transactions and ensure the network against double transactions a transparent and shared register (a blockchain) pseudonymity with the hypothesis that the majority of the network >(51)% is honest, the bitcoin system operates independently following the rules defined by the protocol (substance rules) to validate a date transaction. using a shared blockchain, each player has the ability to control transaction log history and sender solvency, then vote if the transaction is valid or not. the vote depends on the overall has-power that the player puts in service to ensure the network (initially, a cpu is a vote). to use a cryptocurrency, users need to install a specific client that creates a portfolio, generates pairs of cryptographic keys (private/public keys), and syncs blockchain with the network. the public key is used by the customer (software) to generate valid addresses and funds sent to a given address are controlled by the private key from which the address was calculated. In this way, we rely on safe cryptographic principles to manage the property. the following diagram shows how transactions are processed in the peer-to-peer network of bitcoin and added into a blockchain: in a bitcoin network where users do not know each other, blockchain is considered the only source of truth they refer to to to know the previous results of consent. blockchain with consent protocol allows the network to manage transactions without a single failing point. often confused with bitcoin, blockchain is the underlying technology used by bitcoin to operate. concretely, it is a growing databaseof Append-Only and chronologically, which uses the basic cryptographic measures to protect the transactions stored by being tampered with (in (in (words, the data cannot be deleted or modified). This database, or register, collects and records monetary transactions validated by the network in elementary units called blocks. Once validated by the network consent mechanism, these blocks are added to an existing sequential chain of cryptographic blocks connected to hash, to ensure the integrity of the data, from which the name Blockchain. If a single bit changes in one of the connected blocks, the hash-link collapses, the chain is broken, and will be rejected by the net. The following diagram shows how the blockchain is replicated and developed by the members of the network to ensure that everyone has a coherent vision of the

transactions register. When a new block is validated, all nodes synchronize the same copy: the diagram also shows us that Blockchain implements a special data structure, consisting of connected blocks that store intelligent transactions and contracts. Let's take a more close look at these key elements in detail. If we consider blockchain a book or book, a block can be compared to a page or a table in which we record a collection of confirmed transactions. Each block stored in the blockchain is identified in a unique way by a hash, and consisting of an header and a body. The header contains the information on its creation (TimesTamp, Merkle Root, Nonce, Target and version difficulties), and a reference to a previous block, while the body is a collection of accepted transactions. When a block is successfully validated (Mine), it becomes part of the official blockchain. The new bitcoins are generated in the block (a transaction with money) and paid to the validators (or miners). Transactions are the most fundamental construction blocks of the Blockchain system. They represent the transfer of value (encrypting) inside Blockchain network between two addresses. More tangibly, they are represented by small data structures, defined by the Blockchain protocol (such as Bitcoin or O o ,etnemadipar atulove ˜Ã is aigoloncet emoc niahckcolB .aronif otatneserp otats ˜Ã asoc eripac rep acitarp id 'op nu omaiccaf â ittecnoc i erevircsed id otinif aro omaibbA .regdelrepyH e muerehtE ,nioctibâniahckcolb emrofattaip ilapicnirp ellen itnegilletni ittartnoc errudortni rep orbil otseuq ni idrat ¹Âip omerenrot ,aznatropmi orol alled asuac A .ilabolg inoizazzinagro elled %52 li ertlo ad itazzilitu onnaras itnegilletni ittartnoc i ,2202 li ortne ehc amits rentraG .)ssenisub-eht-rof-ydaer-ilauttartnoc-trams-sniahckcolb-yhw/rentraghtiwretrams/moc.rentrag.www//:sptth idev(iraffa ilged odnom li rep itnorp onos non niahckcolB id itnegilletni ittartnoc i ©ÃhcreP rentraG otroppar len ottircsed emoc ,ssenisub lus enoiznetta ¹Âip erpmes odnaritta onnats e ,niahckcolb led onretniâlla itnepmorid e itnetop ¹Âip ezrof elled anu onos itnegilletni ittartnoc I .sniahckcolb irtla id eregreme'l noc otulove ˜Ã is ottecnoc li am ,esab id oiggaccolbs e occolb id tpircs odnazzilitu nioctib ni atinifed atats ˜Ã etnegilletni ittartnoc nu id amrof amirp aL .oiraidemretni ortla nu o otacovva nu ,rekorb nu us eratnoc aznes etnemamonotua otiugese ˜Ãras ehc ,ilibaloivni ilauttartnoc inimret ni eladneiza acigol al errudart id odnetnesnoc ,avisseccus esaf alla niahckcolb ottecnoc li ednerp etnegilletni ottartnoc lI .ossets niahckcolb lus itazziromem enoizucese-otua id tpircs ilg atneserppar ehc ,niahckcolb ni itnaticce ¹Âip ittecnoc ied onu onos itnegilletni ittartnoc I .ocificeps ozziridni nu ad ituneted nioctib i eredneps id ottirid li ah etnettim li es eracifirev rep e enoizasnart al eradilavnoc id eter id itnetu ilga eritnesnoc rep etazzilitu onognev ehcilbbup ivaihc el e ilatigid emrif eL .enoizanitsed id ozziridni'l acificeps e ,)oilgofatrop lad atitseg(atavirp evaihc airporp al odnazzilitu amrif idnof i aivni ehc etnetu'l ,enoizasnart al erettemsart id amirP .olledom e ,)aiv ¬Ãsoc e eticsu ,issergni ,itadatem(itubirtta orol i acificeps ehc new techniques resulting from the proliferation of blockchain projects have emerged. As a result, attempts to understand the current day blockchain machine moreEriuqer liw dohtem dnoces eht ipay trer ener nilno na gnisusu not noitcasnart war eht dnes dnes dnaerc ot margorp sj.Edon a gnitirw yb tneilc niottit that dna sdnammammamam :tuffy snanec snurtuo. 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A bitcoin client is the software for end users that allows us to perform bitcoin operations (sending transactions, receiving payments and so on). When you perform one, it becomes part of the Bitcoin network. We chose two common clients: Bitcoin Core and Electrum. In our example, the sender use Electrum and the receiver use Bitcoin Core (the most popular bitcoin client). For the purpose of this demonstration, he instituted them on a single machine using Ubuntu 16.04. It is possible to install Bitcoin Core (version 15.04) using the following commands: WGET installs -m 0755 -o root -g root -t/usr/local/bin bitcoin -0.15.2/bin/* the electr is a light wallet, which means that it does not require to download the entire blockchain, as we will see in the next section. Download and install the latest version of Electrum as follows: WGET apt -egt Install Python3-setPtools Python3-Pyqt5 Python3-Pippsudo Pip3 PIP3 Install Electrum-3.2.2.tar.gz once both clients installed, we must synchronize them with the network. We have previously learned that a blockchain is a transactions database duplicated by all computers on the network. We must synchronize a huge quantity of data (> 200 GB) to allow Bitcoin's sending or receipt. However, there are two alternative solutions in this: enable pruning for a complete node client as a bitcoin core using a thin client (SPV) as an electrum, which recovers the blockchain information from the electr server instead of having a local copy, we will examine both solutions. However, it is always advisable to use a complete node bitcoin client to benefit from the power of the blockchain. Depending on the operating system, you need to create the Bitcoin.conf configuration file in the default data directory located under the following following ♪ a etaerc ,xunil ni /nioctib./EMOH$:xunil /nioctiB/troppuS noitaciippA/yrarbiL/EMOH$:cam \nioctiB\%ATADPPA% :swodniwFor UTXOS available (abbreviation of transaction output not expense) in other words, a database that stores how much money all have the wallet: contains a Wallet file. Encrypted dat, which stores private keys even if network synchronization is not yet over, You can open blocks/ subdirectories to see blockchain blocks stored in raw format. Each BLK00* file. DAT is a collection of different RAW blocks: we will read the content of one of these files later. While the server (Bitcoind or Bitcoin-Qt) is running, open another terminal. Create a new address for our portfolio by running Bitcoin-Cli GetNewAddress, as in the following screenshot: Basically, Bitcoin-Cli is a tool that allows us to issue RPC commands to Bitcoind or Bitcoin-Qt from the command line (Bitcoin-Qt Users can also access the Bitcoin RPC interface using the Debug console in the Guide menu). Now we're done with Bitcoin Core, let it sync with blockchain and let's move to Electrum configuration. After downloading and installing Electrum, open Electrum testnet mode by running Electrum -Testnet. When performing Electrum for the first time, it will display the new wizard of portfolio creation. Follow these steps: Select Connect Auto in the first dialog box and click Next. Select the standard wallet and click Next. Continue to select Next for each dialog that appears until you are asked to save the words of the seed. Copiali, then confirm that you have saved them correctly, as follows: In the last step, it will ask you a password, which you can leave empty. Once finished, Electrum will generate a new portfolio with many new addresses. Stop the GUI Electrum and continue in CLI mode. We carry out Electrum as a demon process, li li omaibba aro ,ocitsatnaF :sesserDtsiL tentseT- murtcelE eriugese ,elanimret artsenif avoun anu nI tellaw_daoL nomeaD tentseT- murtcelE nomeaD tentseT- murtcelE :euges emoc CPR/NOSJ idnamoc i omaiugese elauq la esab odnazzilitu omerenrot ,aivattuT .ituvecir nioctib i eredev rep ero rep erattepsa id ative ic otnauq ni ,adiug atseuq id otser li rep eroC nioctiB id ecevni murtcelE omeresu ,ovitom otseuq reP .)ero enucla(opmet edeihcir ehc ,niahckcolb li erazzinorcnis id otinif arocna ah non eroC nioctiB ©Ãhcrep ,otouv otatlusir nu ecsiutitser tenspnutsil ,etnemlaizinI }} {{ :otatlusir etneuges li ˜Ãriutitser otseuQ tnepsnutsil ilc-nioctib :lanimreT artsenif allen odnamoc etneuges li eriugese ,enoizucese ni eroC nioctiB noC .tnepsnutsil CPR odnamoc li odnazzilitu ,tneilc i ibmartne ni ilibinopsid OXTU ilg eracnele omervod ,olraf reP .enoizasnart al eredev ²Âup eroC nioctiB es omaillortnoc ,ottenibur lad nioctib i otaivni omaibba ehc arO :atamrehcs etneuges allen otartsom emoc ,eroC nioctiB ad otaerc ozziridni'l e murtcelE ad otareneg ozziridni omirp li odnenrof inucla erenetto e ,nioctib led ottenibur led bew otis ortla isaislauq o /ten.1ou.tecuafnioctib//:ptth ozziridni'lla enilno ottenibur led otis li atisiv ,oipmese otseuq reP .tset id inoizacilppa el rep erolav aznes nioctib ecsinrof ehc ,nioctib ottenibur nu atamaihc atiutarg otnemaiznanif id etnof anu erazzilitu omaissop tentset len ,anutrof reP .enoizasnart amirp al eraf rep sniioctib inucla noc aznedecerp ni otaerc ozziridni ortson li eraiznanif omaibbod ,ottut id amirP .)aiv ¬Ãsoc e tpircs ,tuptuo ,tupni(enoizes atseuq ni ittodortni ittecnoc ivoun i omerehgeips ,nioctiB otnemagap id ametsis nu eriurtsoC ,2 olotipac leN .otibus iggel ehc olleuq ottut icsipac non es itrapuccoerp noN .inoizageips ehgnul aznes ,eroC nioctiB ni edurc inoizasnart eraivni e eraerc rep eirassecen inoizurtsi ellus iuq omerertnecnoc ic , Ãtiverb reP .eter alla alodnettemsart e alodnamrif ,nioctib war enoizasnart anu odneurtsoc niahckcolb allen atazziromem e ataibmacs ,nioctib enoizasnart anu ataerc eneiv emoc omairpocs ,otseuq otteD .acilbbup nioctib eter al noc enoizasnart al eraivva rep etneibma Core from time to time, as it has a powerful command line to face Raw Raw stupni nevig eht gnidneps noitcasnart a setaerc hciwh ,dnammoc noitcasnartwaretaerc eht esu ot evah ew nehT .46c627f67702f6c6c65686 eb lliw mrof dedocne lamicedaxeh ehT .)retrevnoc-xeh-gnirts/gro.yfituaebedoc//:sptth sa hcus(retrevnoc enilno na gnisu ,lamicedaxeh otni egassem dlrow olleh eht trevnoc ot deen uoy ,tsriF .woh ees s'teL .noitcasnart war ruo tcurtsnoc ot)n_tuoverp dna hsah_tuoverp(stneidergni yrassecen eht evah ew ,tuptuo tnepsnutsil eht morF .noitcasnart deviecer eht sdneps taht noitcasnart a etaerc ot emit s' ,Level siht ta .Snoitcasnart tnepsnu devirer eht yb derrefsnart yb derrefsnart is the most important thing in the world Tnuocca eht (Ecnalab resu labolg a etadpu tneps ylluf eb tsum stuptuo nosaer eht .)0 tneps EHT DNA ,)1 Tuptuo(Su rof eno :Stuptuo yb reilrae detaerc) Noitcasnart (Noitcasnart Taht taht tecuaf eht tecuaf eht mof eht Morf eht swohs margaid swohs magidcer ew .sOXTU gnidneps yb ylelos sdnuf evom sresu ,tcaf nI .erutuf eht ni snoitcasnart yb tneps eb nac taht stuptuo wen etareneg dna ,snoitcasnart roirp morf stuptuo dneps snoitcasnart ,nioctiB nI :swollof sa ,dliub ot gnilliw era ew noitcasnart eht rof tupni na sa desu eb nac hcihw ,noitcasnart suoiverp a morf tuptuo noitcasnart tnepsnu elbaliava na evah ew ,ylesicerp eroM .sniioctiB 1.1 htiw ,)dleif hsah_tuoverp(hsah sti yb deifitnedi yleuqinu ,tecuaf eht morf deviecer noitcasnart elbaliava elgnis a evah ew taht swohs tuptuo s'dnammoc Suoiverp eht :gniwolof eht sa hcus , seirtne elbaliava fo tnepsnutsil tentset-- Murtcele : Swolof sa , murtcele rof dnammoc emas eht nur w creating new outputs. We have to pass as an argument (from the previous output) an object with the following parameters: The txid of one of the available outputs The vout index (prevout_n for Electrum) of the selected output The hexadecimal form of the message The destination address (created earlier) The total number of satoshis (the smallest unit of the bitcoin currency) to send Here we are sending one bitcoin, although you can set it to 0: bitcoin-cli createrawtransaction "[{\"txid\":\"07915213625725683caedf998006cf68b1cd817be1694ef0daca265d9b4252\", \"vout\": 1 }]" "{\"data\":\"68656c6c6f20776f726c64\",\"2MsHsi4CHXsaNZSq5krnrpP4WShNgtuRa9U\":1.0000000}" You'll get the following serialized long hex-encoded string, representing our raw transaction: 020000000152429b5d26cadaf04e69e17b81cdb168cf068099dfae3c68258752621352910701000000000ffffffff02000000000000000000d6a0b68656c6c6f20776f726c6400e1f5050000000017a914008051b4d96aa26269dfd36af0eb9c2b2fa894568700000000 To facilitate the usage of the previous CLI commands (and avoid manipulating long hex strings), you can assign the createrawtransaction output to a terminal variable, and use this later as an argument for the other commands. For example, we can use RAW=$ (bitcoin-cli createrawtransaction .....). The resulting hexadecimal string will be stored in the RAW variable, and accessible using $RAW. At first sight, the previous resultant hexadecimal string seems ambiguous and meaningless. The following table breaks down and examines indepth our transaction, byte by byte: As you can see, our transaction has one input (the only unspent transaction received from the faucet), with the 0791...252 transaction id, and two outputs: An OP_RETURN output with an OP_RETURN script An output sending one bitcoin to the specified address The transaction structure can be visualized by decoding back the raw transaction using the deserialize command. If you run electrum --testnet , emitter a significant representation of Json of our built transaction: to obtain the same result, you can decode the raw transaction using Bitcoin-Cli DecoderaWTransation, or using an online decoder such as the one on https: //live.blockcypher .com/btc-testnet/decodetx/. At this point, the transaction is created, but not yet transmitted to the network. To send our transaction, we have to sign it using the Bitcoin-Cli SignraWTRENSATION command. We sign the transaction using our private key (connected to the reception address) to demonstrate our own output proprietary, and therefore our authority to spend the centered bitcoins. The first step will be to extract the private key associated with the first address used to receive bitcoins from the tap: Electrum -Testnet Listaddresses | Electrum -Testnet Getprivatekeys -note the presence of a dash at the end of the command. He will be replaced by the values returned by the tube. As a result, you will get a list of private keys. Copy the first without the P2Pkh prefix, as follows: be careful, you should not share your private keys in real life. Remember that anyone with the private key can spend the received bitcoins. Next, we have to get the pubkey script from the output that we are willing to spend. For this, firstly, we must recover the transaction from the blockchain, using Electrum Gettransation -Testnet "07915213625725683CAEDF998006CF68B1CD817BE1694EF0DACA265D9B4252". Secondly, we use the resulting RAW form to get scriptpubkey, as follows: electrum deserialize -testnet Unlike before, here we are loading and deriling the transaction received from the tap. We will get the results created in this transaction, as follows: The part surrounded in red is scriptPubKey of the pending transaction output. A PubKey script can be seen in the outputs; represents the conditions that are set for the expense of the outputs. The new owner can sign using the private key associated with the address that receives the output to meet the PubKey script conditions. The network checks whether the digital signature is valid, and if so makes it an input for the new transaction. The cryptographic parts -scriptSig and scriptPubKey - are particularly complex and will be discussed in the next chapter. Copy PubKey script from output, and move along the other options to signrawtransaction command, as follows: signrawtransaction "Raw hexstring" ([{txid":"id","vout":n,"scriptPubKey":"hex","redeemScript":"hex].} [privatekey)]., The second argument is a JSON array of the previous transaction outputs we are consuming, and the third argument is the private key belonging to the address that received the output. The result will be similar to the following output: After obtaining the signature of the raw transaction, it is time to send the signed transaction to the testnet. To send the transaction to a blockchain, we send the signed signature using the transmission command provided by Electrum, as following screenshot shown: You will return the hash ID of the transaction encoded hex: d3e300c2f2eedf673ab544f4c2b09063353e618ab8a0c9444e931d0145e43ded If everything goes as planned, you should have successfully memorized the world message hello in testnet bitcoin blockchain. The following screenshot shows what we have done so far. We consumed an input (from a previous transaction), so we created a transaction with two outputs; the first is an OP_Return that transports our long long message a bitcoin transfer (BTC): Isn't it fascinating? You can use a block explorer such as to control the transaction with the printed transaction hash (txid) and recover the stored message. It would be more exciting to try again the same operation using the main network (the original and main network for bitcoin), but then it would be to do with real and expensive bitcoins. If Bitcoin Core has finished syncing the blockchain, you can locally analyze the blocks to locate our transaction and read the stored message. To open and analyze blockchain blocks, we need to install a graphic hexagonal editor like blessing, performing sudo apt-get install bless. Once installed, you can run it and open one of the .blk files in the block directory: As shown in the screenshot, it will bless display a split pane in three parts: The left column is the offset column The central column displays hexadecimal block content The right column is the same data line as in the center, with recognized text characters displayed as text and binaries represented by period characters To locate our transaction, you can search it by pasting the unsigned raw transaction string in the Search field. You can go through some blk***.dat files before you find the transaction. In my case, I found it in the blk00100 file. Dat. At first glance, it may not be very significant, but once you locate the transaction you can easily locate the message you stored in the blockchain. The message of the hello world will be visible in the ASCII section on the right. You can also locate the block that includes the transaction by looking for the delimiter of the previous block, called magic bytes,from 0b110907. Then you can, following the structure of the block, determine the meaning of these long hexadecimal strings. On the previous screen, I delimited the block with a yellowand highlighted the field of header blocks with multiple colors. I delimited our transaction and the transaction of the coin in blue and gray, respectively. As you will be running in plum mode, you will not be able to see my transaction, as you will only sync new blocks. However, you will be able to see your transaction by following the same process. To help you visualize the block content, the following table explains the meaning of the previously highlighted bytes: That's it! You can now send transactions with additional messages in the blockchain, and retrieve data online or locally. Although this is not usually required, it may prove useful in the future. Let's go ahead and send another raw transaction with an OP_ Exit RETURN using a different method. At this point, I guess you want to write a code. Your wish is my command. In this section, we will build a simple Node. Js script to perform what we did manually before: to send a raw transaction to the testnet. You can stop running Electrum and Bitcoin Core, as we will use an online REST API (chain.so/api) as a central level to interact with the bitcoin network. Before you start building the program, make sure you have Node.js and NPM (reverend for Node Package Manager) installed. To create an OP_RETURN transaction, we can use one of the many bitcoin APIs available, such as: In our example, we will use a JavaScript library called bitcoinjs-lib written for Node.js. We can install the corresponding package as follows: npm install bitcoinjs-lib --save In the example code, we will send requests using Node.js and the request package to access the API. Therefore, we install the following modules: npm install request --savenpm install request-promise --save Similar to the first method, we will use the firstand its private key generated by Electrum to send a crude transaction that carries a world message hello Start by creating a hello.js file and importing the bitcoinjs-lib and request-promise modules using the require directive as follows: var bitcoin = require('bitcoinjs-lib');var rp = require('request-promise'); Then we declare and define the necessary variables: var data = Buffer.from('Hello World', 'utf8');var testnet = bitcoin.networks.testnet;var privateKey = 'cQx4Ucd3uXEpa3bNnS1JJ84gWn5djChfChtfHSkRaDNZQYA1FYnr';var SourceAddress = "n3CKupfRCJ6Bnmr78mw9eyeszUSkfyHcPy"; They represent respectively: The message to be embedded in the transaction The network¢ÃÂÂtestnet The private key in WIF (short for Wallet Import Format) The source address from which we spend the UTXO Then we ask the API to provide us with the available unspent output belonging to a specific address. We read the response from the API to define the available amount and the output txid. We also define the fee (5,000 satoshis) to pay the network (miners) for processing the transaction, as follows: var url = " +SourceAddress;var DestionationAddress = '2MsHsi4CHXsaNZSq5krnrpP4WShNgtuRa9U';var options = { uri: url, json: true};rp(options).then(function (response) { var index = response.data.txs.length - 1; console.log(response.data.txs[index]); var UtxoId = response.data.txs[index].txid; var vout = response.data.txs[index].output_no; var amount = Number(response.data.txs[index].value*100000000); var fee = 0.0005*100000000; }).catch(function (err) { console.error(err);}); You can use console.log() at any point to print the received values in the console. Now it's time to create our transaction. Inside the previous GET request, add the following lines: const RawTransaction = new bitcoin.TransactionBuilder(testnet);RawTransaction.addInput(UtxoId, vout);RawTransaction.addOutput(DestionationAddress, parseInt(amount-fee));scrypt = Noitcnuf (Hctac.)};) esnopserj+": di noitcasnart" (gol.elosnoc;) esnopser (yfignirts.nosj = esnopserj rav {) esnopser (NOITCNUF (neht {: ydob, 'tsetctb/xt_dnes/2V/ipa/os.niahc //: sptth': lru, 'tsop': dohtem {= snotpognidnes rav; noitcasnart dengis eht fo noitatneserper xeh a sniatnoc hcihw ,tcejbo NOSJ a tseuqer ruo ni edivorp eW .IPA eht htiw tseuqer TSOP a gnisu krowten deificeps eht ot ti dnes dna ni noitcasnart dengis eht ekat ew ,yltsaL ;)tnuoma(tnIesrap ,llun , tuptuo.meeder.hs2p, riapyek, 0 (ngis.notcasnartwar;)} tentset.skrowten.nioctib: krowten, hkpw2p: meeder {(hs2p.stnemyap.nioctib = HS2P tsnoc;)} tentst.Skrowten.noCnten. riaPyek :yekbup {(hkpw2p.stnemyap.nioctib = hkpw2p tsnoc :daetsni edoc gniwollof eht esu ot deen ew ,snoitcasnart HS2P roF .noitcasnart wen eht gningis ot roirp tuptuo eht fo epyt eht wonk ot deen ew ,eroferehť ;tuptuo eht dneps ew ya w eht segnahc siht ,esruoc fO .n ro m htiw gnitrats sesserdda yb deviecer snoitcasnart HKP2P nommoc eht fo daetsni ,snoitcasnart)HS2P(hsaH-tpircS-ot-yaP eviecer 2 htiw gninnigeb sesserdda ehT .sesserdda dna noitcasnart fo sepyt tnereffid evah ew nioctib Ni, Revewoh .tuptuo) HKP2P (HSAH-YEK-CILBUP-AT-JAP A Gnimusnoc EW EW ESUACEB SIâ "€ Ã Ã Ã Ã Ã Ã Ã ¢ ngis.xt;)tentset ,FIWyeKetavirp(FIWmorf.riaPCE.nioctib = riaPyek rav :niahckcolb nioctib eht ot ti dnes dna ,yek etavirp ruo htiw noitcasnart eht ngis ot si won thgir od ot evah ew gniht ylno ehT !tes si gnihtyrevE !taerG .seef eht sunim ,)nioctib eno(sihsotas 000,000,001 htiw tuptuo eht si dnoces eht dna ,snioctib 0 htiw tuptuo NRUTER_PO na si tsrif eht :stuptuo owt dda eW .noitcasnart ruo ot tupni sa IPA eht morf reilrae detseuqer ew tuptuo eht dda ew nehT .noitcasnart War Wen Ruo etaerc ot bill-sjnioctib morf redliubnotcasnart gnisu era ew ereh;) 0 A erahs ohw srotca rof erdom rehto eht eht eht elhw ,niahckcolb Cilbup a Esu Ot dnet ew ,)no ,ecnanevorp gnivorp ,smetsy seder sseltsurt a ,styllevt ruoy rof eb thgim niahckcolb fo sepyt Eseht fo eno hcihwâ”â€â€¢nnirednow Eb Thgim uoy hdom hcae fo-noitpircsed ht (krowten reep-ot-reep eht nioj ot dewolla si ohw ,sdrow rehto ni ;ledom lortnoc ssecca detnemelpmi eht dna epyt krowten eht :airetirc niam owt yb nevird si meht neewteb noitcnitsid ehT .smgidarap tnereffid htiw sledom cisab ruof otni deifissalc eb nac snoitulos niahckcolb ,ylterruc .Segigolonhcet niahckcolb fo sepy rojam eht ta kool ket ket nga ew ew ,noitces lanif siht .depoleved neeb estahcolb snotne snotne snoitam rtsudni fo yteirav a no erusserp tup rellik yraidemretni dna enihcam tsurt a sa flesti evorp ot sseccus ylrae sti ,revewoH .niioctib gninniprednu ygolonhcet eht sa detrats yllaitini niahckcolb ehT Ã Ã .dlroWolleH/jalleb/moc.buhtig//:sptth :yrotisoper buhtiG Gniwof eht ni Elbaliava edoc edoc lluf eht ,niahckcolb eht fo pot no LOCOTO NWO ROOTCID poleved ro snoitacilppa decnavda etaerc nac uoy erub a ts snoctad yllufsseccus evah uoy ,snoitalutargnoC .rerolpxe tentset a gnisu gnissecorp noitcasnart eht kcehc nac ew ,erofeb sA .DI noitcasnart eht gninruter egassem sseccus a htiw gnola ,sliated tuptuo desu eht teg eW :gniwollof eht ot ralimis s'taht kcab egassem a eviecer lliw uoy ,krowten eht ot yllufsseccus dereviled dna dilav he is noitcasnart war eht fi .dmammoc sj.olleh eht htiw of Nur ,elif eht devas evahas ecno ;)rresnosnoc trust and desire to build shared services. Private blockchains are suitable for building faster local testing environments, or to avoid the cost of transacting, whereas the BaaS model is a suitable solution for easy deployment and high scalability. Ã Â This first chapter is designed to acquaint you with the key concepts behind blockchain, which you'll need to build blockchain projects. We have seen how to interact with bitcoin's blockchain both manually and programmatically (using JavaScript). Now you can start building innovative solutions harnessing blockchain as a safe and trustworthy vault to help with checking the authenticity of documents, proving the provenance of products, asset digitization, and more. A deep understanding of bitcoin is key to deciphering blockchain. In the next chapter, we will continue learning about bitcoin, and build an advanced payment application. 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