

## The Tangle Iota

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What is IOTA an how does the tangle work | Explained in 5 minutes ~~Whitepaper Circle: IOTA Tangle~~ Presented by Sunny Aggarwal **How IOTA Tangle Technology will Impact the Future of the Global Supply Chain** ~~IOTA / Tangle Explained on Proof Of Make IOTA explained in 2 minutes!~~ IOTA tutorial 28: How to send sensor data to the tangle using Masked Authenticated Messaging ~~What is IOTA Tangle? IOTA Update 2020: The Hack~~ ~~What Lies Ahead Blockchain Expert Explains One Concept in 5 Levels of Difficulty | WIRED~~ **Should You Invest in IOTA in 2020? [FULL REVIEW] 19 Industries The Blockchain Will Disrupt** ~~IOTA by the numbers~~ **World's first IOTA charging station by ElaadNL**

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ON THE MONEY: EARN AS YOU DRIVE WITH JAGUAR LAND ROVER - IOTA

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Cities of the future: IOTA, Jaguar Land Rover, Engie Lab Crigen \u0026 Entra showcase energy traceability

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The Tangle, which is the data structure behind IOTA, is a particular kind of directed graph, which holds transactions. Each transaction is represented as a vertex in the graph. When a new transaction joins the tangle, it chooses two previous transactions to approve, adding two new edges to the graph.

[The Tangle: an Illustrated Introduction | by Alon Gal | IOTA](#)

[IOTA Tangle Explorer](#). Search TPS 1 minute. 0.00 TPS 10 minutes. 0.00 CTPS 10 minutes. 0.00 conf. rate 10 ... Hash Value; [Advanced explorer](#). Detailed information on IOTA transactions, addresses, bundles and tags. [Public nodes](#). Smart public nodes service with remote PoW enabled. [Statistics](#). Statistics and charts of the IOTA network. [Tools](#). [Streams decoder](#), [IOTA converter](#), [transactions visualizer](#) ...

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IOTA Tangle Explorer and Statistics - TheTangle.org

The IOTA protocol uses an underlying architecture called the Tangle to operate, this is similar to how Bitcoin utilizes a blockchain as its underlying architecture. The Tangle is a type of directed acyclic graph, or DAG, which must first be understood in order for the Tangle itself to be understood. What is a Directed Acyclic Graph (DAG)

What is the Tangle (IOTA)? - Mycryptopedia

The Tangle is the moniker used to describe IOTA's directed acyclic graph (DAG) based transaction settlement and data integrity layer focused on the Internet-of-Things (IoT). The Tangle is essentially a string of individual transactions that are interlinked to each other and stored through a decentralized network of node participants.

What is The Tangle? Complete Guide to IOTA's Directed ...

Advanced explorer. Detailed information on IOTA transactions, addresses, bundles and tags.

IOTA Tangle Explorer and Statistics - TheTangle.org

Due to the architecture of the tangle, IOTA is perfectly suited for use in the energy sector. IOTA offers a wide range of applications for use in the private and corporate sectors.

The use cases of IOTA in the field of smart cities

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IOTA Tangle Explorer and Statistics - TheTangle.org

See the IOTA Tangle in action. The Tangle Switch network: main dev unio Experiments: TimeMachine custom Tangle. tip milestone transaction confirmed select a transaction to view confirmed by tx confirming tx same bundle . enter a tx hash enter a tag enter a bundle-hash. remove floating tx. limit to 4k tx. pin old tx. center tangle. reduce movement. size by # of confirms. size by weight. size by ...

the IOTA tangle

IOTA Tangle Utilities Tangle Explorer MAM Subscriber Currency Converter Text Converter Transaction Decoder Trytes Compressor QR Code Generator QR Code Scanner Simple Transaction Sender Area Code Finder The Foundation Our Vision The IOTA Foundation Meet the Team Work at the IOTA Foundation Verticals Mobility and Automotive Global Trade & Supply Chains Industrial IoT eHealth Smart Energy ...

IOTA Tangle Utilities

The Tangle is IOTA's network. It immutably records the exchange of data and value. It ensures that the information is trustworthy and cannot be tampered with nor destroyed.

What is IOTA | IOTA

DEFINITION of Tangle (Cryptocurrency) Tangle is the transaction storing and processing mechanism of IOTA, a cryptocurrency network that was developed to enable fee-less micro-

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transactions for the...

Tangle (Cryptocurrency) - Investopedia

Tangle EE provides a governance framework for building projects on IOTA. Organizations can now join the Tangle EE working group and shape the development of exciting future technologies, starting with Unified Identity and Decentralized Marketplaces.

Tangle EE - Eclipse Working Group

The deeper — or more “enveloped” by the Tangle — a transaction gets the more final it becomes. In the following picture, the dark green transaction is validated by all light green transactions. As the number of light green transactions grows, the probability of the dark green transaction being in the future Tangle converges to 1.

Consensus in the IOTA Tangle — FPC | by Sebastian Mueller ...

Unlike blockchain, which has spawned bitcoin, litecoin, ether and a whole range of other lesser-known cryptocurrencies, the tangle so far has only one: IOTA. IOTA takes its name from both the IoT, which it's meant to facilitate, and the fact that it's designed to help complete a tonne of tiny transactions.

The tangle vs blockchain: a comparison between IOTA and ...

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Certification. For Enterprise. Quick Start. Deployment Options. Application Blueprints. Ecosystem. Get involved. Developer Funding. IOTA Technologies Discover Trinity Wallet Download Roadmap Explore Foundation The IOTA Foundation ...

Home | IOTA

The Tangle is the distributed ledger in IOTA that contains an up-to-date history of transactions. This section introduces you to the Tangle. The Tangle is a single source of truth.

About the Tangle | The Tangle | Getting Started | IOTA ...

The Tangle is the moniker used to describe IOTAs directed acyclic graph (DAG) transaction settlement and data integrity layer. It is structured as a string of individual transactions that are interlinked to each other and stored through a network of node participants.

IOTA (technology) - Wikipedia

IOTA is one of the most exciting projects in the space with a unique underlying protocol called the " IOTA Tangle " or "DAG." Tangle has been designed to overcome the inefficiencies of the traditional blockchain and presents a new way for a decentralized P2P system to reach consensus.

IOTA - why is this crypto-currency different? IOTA is a crypto-currency which emerged in late

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2015, and it aims to tackle Blockchain's main problems. Blockchain technologies like Bitcoin suffer from various systemic problems, such as network congestion. In short, they cannot expand further and won't be able to process more transaction than the current limit of seven per second. IOTA addresses these issues and offers an entirely new technology, which is still decentralized but can process an infinite amount of transactions as well. This technology is called Tangle. The tangle is another kind of database in which participants have to confirm two other transactions if they themselves want to execute one. With this algorithm, IOTA can theoretically process an infinite amount of transactions and grows its network strength if more participants join. This is, where the Internet of Things comes in: the term describes a vision of devices with sensors and information, which interact with each other directly and form a new Internet. What would happen if intelligent cars would receive warnings from smart sensors in the streets? What if the smart home would be receiving information so that it is fully automated and heated or cooled in the cheapest way possible? To connect the mass of intelligent devices and enable communication amongst them, another Internet is necessary. IOTA enables exactly this. IOTA is still a relatively new technology, and not much information is available online, aside from blog posts, forum comments and random tweets. The following questions might occur when trying to find out more about IOTA: What are IOTA's strengths? How will it work with the Internet of Things? How does IOTA as a coin work? How to purchase IOTA? What to contemplate when investing in IOTA? For what use cases can IOTA be used? How will IOTA develop in the next time? This book will answer these questions. It will even give some programming examples as well as insights on IOTA's tangle technology - a technology that is entirely new. You can find out more by checking out the preview (10 pages). The book's

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content are the following: Introduction Iota - Basics Chapter Iota And The Blockchain Chapter Iota's Technology Chapter How To Buy Iota Chapter Investing In Iota Chapter Security Procedures IOTA In Use: Details, Fundamentals And Use Cases Chapter 6: The Idea Behind Iota Chapter 7: Programming Iota Chapter 8: Iota Use Cases Chapter 9: Frequently Asked Questions Chapter 10: Milestones And The Future

The whole automotive branch is on the cusp of starting to become electrified. It is expected that around three to four times the amount of copper and a multiple of cobalt are required to manufacture a pure electronic car in comparison to a car with a combustion engine. The situation is also reflected in the price of the raw materials. Copper prices increased by over 50% in the past years and cobalt even tripled based on the levels of 2016. While only a high technological process can be used to mine lithium, cobalt and copper can be found directly within the soil and therefore it does not require a plant to obtain smaller amounts of the raw materials. The possibility of simple and zero-cost production combined with high metal prices makes it very profitable for small miners to search for those minerals by hand. This so-called artisanal mining is very common especially in undeveloped countries with low economic status and a high poverty rate. Artisanal mining in such areas is practiced under inhumane conditions, oftentimes even including child labor. The question arises how EV supply chains can be traced down to prohibit unethically sourced material from entering the supply chain. Simultaneously another megatrend which is mentioned in the media a lot of times in the past couple of years is distributed ledger technologies (DLTs), mostly known due to the term blockchain and the cryptocurrency Bitcoin. One technology which is standing out is the IOTA Tangle. The Tangle



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has a different approach to most known blockchain architectures and claims to solve the problems they face. The question arises if the IOTA Tangle could solve the problem of electronic vehicle supply chains, while being cost-effective and scalable at the same time, suiting the requirements of today's supply chains. Therefore, the following research questions are addressed: -What potentials do Distributed Ledger Technologies (DLT) have and what is the reason for that?-How does the IOTAs Tangle differ from blockchain solutions, what makes its design unique and what are the advantages?-What could be an effective process for companies to trace electronic vehicle supply chains utilizing the IOTA Tangle to solve the problems of artisanal mining

Learn what the Blockchain is, what the differences between available blockchain platforms are, how to work with Oracle's Blockchain Cloud Service, and how Blockchain can change the direction of your Oracle work and the focus of your customers. Key Features A professional orientation of the Blockchain for Oracle developers and customers Learn what the Blockchain is and how it will affect for you and your customers Learn how blockchain will disrupt traditional cross-organizational applications Implement your own Blockchain on Oracle and develop your first smart contract Industry directions of the Blockchain to help you decide where to develop your skills Book Description Blockchain across Oracle gives you the professional orientation to Blockchain that you need as an Oracle developer in today's changing world. Written and prepared for you by Oracle Developer Champion Robert van Mülken, this book gets you up to speed with the details of the Blockchain - core concepts, how to implement Oracle's Blockchain Cloud Service, industry implications for the Blockchain, and how the Blockchain will

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affect your Oracle customers. Robert van Mölken introduces you to the history and concepts of the Blockchain. You'll really get to understand the Blockchain inside and out, as an Oracle developer or solution architect. You'll understand the Blockchain flow, and how the hashes and chains create a new decentralised paradigm for you as an Oracle developer. You'll gain insights into how the Blockchain affects Oracle developers and customers in this modern and disruptive era. You'll see how the Blockchain concepts work in this new world where Assets, Transactions, Security, and Privacy, can all be sustained across a decentralized system for your customers. Then you'll find a detailed look at the cutting-edge Oracle middleware solutions. You'll learn about Hyperledger Fabric, the opensource Blockchain framework used by Oracle as its core, and how to set up your own Oracle Blockchain Network. You'll design and develop a smart contract, and learn how to run it on the Oracle Blockchain Cloud Service. The final part of the book looks at how the Blockchain will affect your customers across various industry sectors. By studying industry trends in the financial services sector, healthcare industry, and the transport industry, you'll discover how the options and possibilities for you and your clients are being transformed by the Blockchain across Oracle. You'll complete this professional orientation by looking at Blockchain trends and future directions. What you will learn

- A full introduction to the Blockchain
- How the Blockchain affects Oracle developers and customers
- Core concepts including blocks, hashes, and chains, assets, transactions, and consensus
- How to work with Oracle Cloud to implement a Blockchain Network Design, develop, and run smart contracts on the Oracle Blockchain Cloud Service
- Blockchain security and privacy for Oracle developers and clients
- Public and private Blockchain decisions for Oracle architects and developers
- Industry analysis across finance, governance, and healthcare

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sectors Industry trends and the future of the Blockchain technology Who this book is for This book is a professional orientation for all Oracle developers, solution architects, and decisions makers involved in Oracle system and future development.

This book is about the latest development in Distributed Ledger Technology. This book looks at the Tangle or IOTA in great detail. Most people have heard of Bitcoin and blockchain, but did you know that Bitcoin runs on Blockchain 1.0? And it is outdated technology. Blockchain technology has many limitations. For instance, Ethereum is a more advanced blockchain, often referred to as Blockchain 2.0. It overcomes some of the challenges faced by Blockchain 1.0. Yet even Blockchain 2.0 is now ancient technology, thanks to the development of the Tangle. The Tangle is a modern distributed ledger that overcomes all the challenges faced by blockchain. It is a very fast network that is very different from blockchain and is technology for the future. This network was just developed in 2014 and has been around since 2015. However, it has caught the attention of some of the world's largest technology companies including Microsoft and Volkswagen have partnered with Tangle to conduct major experiments that may just take the world onto another completely different level. You will learn about some of the exciting applications that can run on the Tangle or Blockchain 3.0. Tangle is very important in providing the best solution for the Internet of Things. There are many gadgets and devices we use today that are connected to the Internet. The Tangle provides the right platform to share, collate, disseminate and store data. Other applications include machine to machine communications, masked authenticated messaging and so much more. This book will teach you about the exciting features of the Tangle network and its cryptocurrency, the Iota. The

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Tangle eliminates the need for miners and is absolutely free to use. It is very scalable and can adapt to any project or need in society. It also gets faster and more efficient as it grows bigger, making it a versatile, exciting network for most modern applications. If you are interested in technology and wish to learn more about the latest cryptocurrency in the market as well as the best-decentralized network, then you should get this book.

Master's Thesis from the year 2018 in the subject Business economics - Controlling, grade: 2.0, Berlin School of Economics and Law, language: English, abstract: This thesis aims at elaborating fundamental valuation techniques for crypto assets. Since research in this field is still at the very beginning this work intends to provide investors, financial analysts, token issuers, researchers or crypto enthusiasts a framework of how to determine the fundamental value of this emerging asset class. To do so, three main research questions are formulated: 1. How can the fundamental value of crypto assets be determined? 2. Which valuation techniques can be applied to the different token types? 3. What is the fundamental value of the IOTA token? In order to answer the questions, the thesis will progress in the following manner: First, the reader will be introduced to distributed ledger technology (DLT) and blockchain, which represent the underlying technology of crypto assets. In the next step the term 'crypto asset' will be defined. It will be elaborated to what extent crypto assets can be considered as a new asset class and how crypto assets can be classified into different types. The terminological part will end up with a discussion of the fundamental value of this new asset class. The main body of the thesis consists of two parts, a theoretical (conceptual) and a practical (applicational) part. The theoretical part aims to collect and evaluate all current

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valuation methods for crypto assets. Different absolute as well as relative valuation techniques will be elaborated, namely the Discounted Cash Flow (DCF) model and CAPM, the asset rotation theory, the Equation of Exchange, the NVT ratio, Metcalfe's Law, the cost of production approach as well as the accessibility discount. The second part of the main body comprises a case application of one valuation model, namely the Equation of Exchange, to the IOTA token.

This book constitutes the proceedings of the 12th International Conference on Network and System Security, NSS 2018, held in Hong Kong, China, in August 2018. The 26 revised full papers and 9 short papers presented in this book were carefully reviewed and selected from 88 initial submissions. The papers cover a wide range of topics in the field, including blockchain, mobile security, applied cryptography, authentication, biometrics, IoT, privacy, and education.

IOTA: Qué es? Aprende todo lo que quieras saber sobre IOTA y cómo usar la nueva red troncal del Internet de las cosas a tu favor. Has mirado a IOTA y te has preguntado qué podría hacer por ti? ¿Compraste Bitcoin pero también quieres probar algo nuevo? ¡Entonces este libro es adecuado para ti! Además de Bitcoin, hay una variedad de monedas digitales con casos de uso muy diferentes. Uno de ellos es IOTA. Si no has oído hablar de él antes, tiene sentido analizarlo para comprender por qué las empresas como Bosch ya están invirtiendo en

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IOTA. IOTA es un desarrollo alemán que quiere reemplazar Blockchain. Mientras que las tecnologías de blockchain como Bitcoin no pueden evolucionar debido a ciertos problemas y eventualmente no pueden manejar a más usuarios, IOTA ha creado una nueva y revolucionaria base técnica: The Tangle. En este libro, te mostraré los conceptos básicos de IOTA y Tangle, así como algunos temas avanzados, como los casos de uso. Tangle es otro tipo de base de datos donde los participantes confirman las transacciones cuando quieren ejecutar una transacción ellos mismos. Como resultado: IOTA teóricamente puede procesar un número infinito de transacciones y, Como red, se fortalece a medida que se unen más participantes. Los desarrolladores crearon IOTA para que se pudiera utilizar con otras tecnologías para mejorar aún más y satisfacer las demandas del mercado en constante crecimiento de aplicaciones criptográficas. Por ejemplo, a diferencia de Bitcoin, IOTA es cuántica segura. Aquí es exactamente es donde entra el Internet de las cosas: es la visión de una multitud de dispositivos con sensores que interactúan entre sí para formar su propia Internet. ¿Qué pasaría si los autos inteligentes fueran advertidos por otros sensores de que hubo un accidente? ¿Qué pasa si los sensores que controlan tu casa inteligente de manera ideal midieran si la casa se calienta o se enfría lo más económico posible? Para traer la variedad de dispositivos inteligentes y poder comunicarse entre sí, necesitan su propia Internet. Este internet puede ser IOTA! Si eres nuevo en el mundo de las criptomonedas y Blockchain, deberías ver este libro como un buen trampolín hacia el futuro, porque te muestra la información más importante que necesitas para obtener ganancias en este nuevo e interesante mercado. En este libro, se aprenderán las siguientes cosas: Conceptos básicos de IOTA y Blockchain Cómo IOTA cambiará la economía Comprá IOTA e invierte en IOTA IOTA:

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dónde se desarrollará en los próximos años. ¡Desplácese hacia arriba y compre con el botón "1Click"!

IOTA - qu'est-ce que c'est ? Ce livre va l'expliquer. Nouvelle

This book describes state-of-the-art approaches to Fog Computing, including the background of innovations achieved in recent years. Coverage includes various aspects of fog computing architectures for Internet of Things, driving reasons, variations and case studies. The authors discuss in detail key topics, such as meeting low latency and real-time requirements of applications, interoperability, federation and heterogeneous computing, energy efficiency and mobility, fog and cloud interplay, geo-distribution and location awareness, and case studies in healthcare and smart space applications.

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