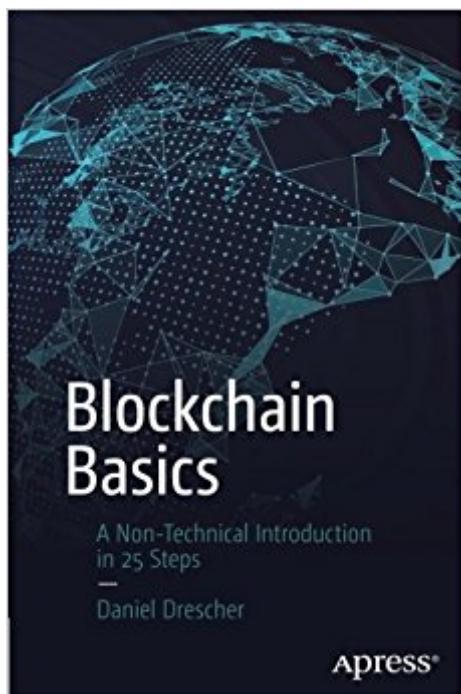


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# Blockchain Basics: A Non-Technical Introduction In 25 Steps



## Synopsis

In 25 concise steps, you will learn the basics of blockchain technology. No mathematical formulas, program code, or computer science jargon are used. No previous knowledge in computer science, mathematics, programming, or cryptography is required. Terminology is explained through pictures, analogies, and metaphors. This book bridges the gap that exists between purely technical books about the blockchain and purely business-focused books. It does so by explaining both the technical concepts that make up the blockchain and their role in business-relevant applications.

**What You'll Learn**

- What the blockchain is
- Why it is needed and what problem it solves
- Why there is so much excitement about the blockchain and its potential
- Major components and their purpose
- How various components of the blockchain work and interact
- Limitations, why they exist, and what has been done to overcome them
- Major application scenarios

**Who This Book Is For**

Everyone who wants to get a general idea of what blockchain technology is, how it works, and how it will potentially change the financial system as we know it

## Book Information

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## Customer Reviews

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concepts that make up the blockchain and their role in business-relevant applications. What You Will Learn: What the blockchain is, Why it is needed and what problem it solves, Why there is so much excitement about the blockchain and its potential, Major components and their purpose, How components work and interact, Limitations, why they exist, and what has been done to overcome them, Major application scenarios.

Daniel Drescher is an experienced banking professional who has held positions in electronic security trading in a range of banks. His recent activities have focused on automation, machine learning and big data in the context of security trading. Amongst others, Daniel holds a Doctorate in Econometrics from the Technical University of Berlin and an MSc in Software Engineering from the University of Oxford.

Blockchain is a disrupting topic/protocol for those who like/love to study distributed systems. Blockchain exhibits an important potential to solve large scale problems, offering reliability and security. For those willing to understand the inners of this protocol which relies on P2P and cryptography techniques, this book is extraordinary. I have always appreciated the good writings and I can say that this book is one of my favorites. The author exposes in a clever, effective and novel way a complex idea. I have been surprised by the way how this book has been organized and its content presented. This book is not only one of my favorites because of the topic under study but also for the simplicity, creativity and clarity about how the ideas have been transmitted.

Finally a knowledgeable and well-written book on the blockchain that bridges the gap between glossy marketing brochures and the often hardly understandable discussion of technology insiders. Highly recommended reading for everyone who wants to get beyond the buzz and understand the fundamental ideas, concepts and their implementation that make up the blockchain.

This is an absolutely brilliant book in the middle of hype, marketing and some times misguided ocean of literature in this space ! The clarity of writing, exposition of concepts in relation to familiar ideas with examples from other work on distributed p2p computing is unmatched. It is also great for understanding basics of software architecture and core concepts of the underlying fundamental computing basis such as Byzantine Generals Problem for distributed consensus or cryptography of proof-of-work etc behind blockchain. This book along with "The Science of Blockchain" should be mandatory reading by anyone with serious intention of understanding the future of hybrid distributed

p2p technology.

No nonsense introduction to Blockchain. The author starts from general concepts and goes deeper and deeper to cover all the important conceptual building blocks of this incredible technology. Because he clearly states the fundamental goal of each technical device, he helps you to always understand where the journey is leading to, and the broader implications of this technology. The structure and organization of the chapters reflect and support this presentation style and it's very effective to convey the right information in the right forms to help the reader to understand clearly this difficult topic. Great job!

This book is exceptional! I recommend it to anyone who wants to understand how the blockchain works or who needs to comprehend its possibilities as well as limitations. The book shines because of its logical structure, its concise and well-written explanations and its helpful analogies/metaphors. While reading it I also appreciated the complete absence of name dropping, anecdotes and wild speculations I have found in too many other books on this topic. If your goal is to solidly understand the blockchain, this is the one book you should definitely read. **Detailed Review:** The author explains the blockchain in a sequence of short and focused steps in such a way that the presentation is precise but also accessible to a general audience. The reader is guided through the book via carefully chosen analogies from daily life, which I found very helpful to grasp and remember the specific topic of each step. Initially (step 1-3) some relevant concepts concerning software systems in general and distributed peer-to-peer systems in particular are covered. The blockchain is introduced as a means of ensuring integrity of such systems. This is followed (step 4-7) by a motivation why the blockchain is needed, e.g. for securely managing ownership in a distributed environment by a group of partially untrusted participants while avoiding problems like double-spending. The main part of the book (step 8 to 21) covers the basic tasks which need to be performed to realize the blockchain and describes how this can be done. The steps follow a common layout starting usually with a motivating metaphor and ending with an outlook to the next step and a summary what has been covered in the current step (e.g. hashing, digital signatures, adding new transactions to the chain). Each step explains its respective topic in such a way that the presented information is sufficient for a solid understanding of the blockchain. In step 21 all puzzle pieces are finally brought together to paint the full picture of the blockchain and to explain how it can fulfill its objectives with the mechanisms detailed in the preceding steps. Equipped with this profound knowledge the reader can in the remaining steps 22-25 relatively easily follow the discussion of

limitations as well as current and future applications of the blockchain and also understand the final outlook on variants and further development of this technology.

In one word, it's a "WOW", really well written book, I will suggest a must for beginners to understand the logic behind the blockchain & how it works, Author has used basic and easy to understand words & explained each step in appropriate flow. As reader and blockchain learner 5 Stars from my side & this book & author deserve it.

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