

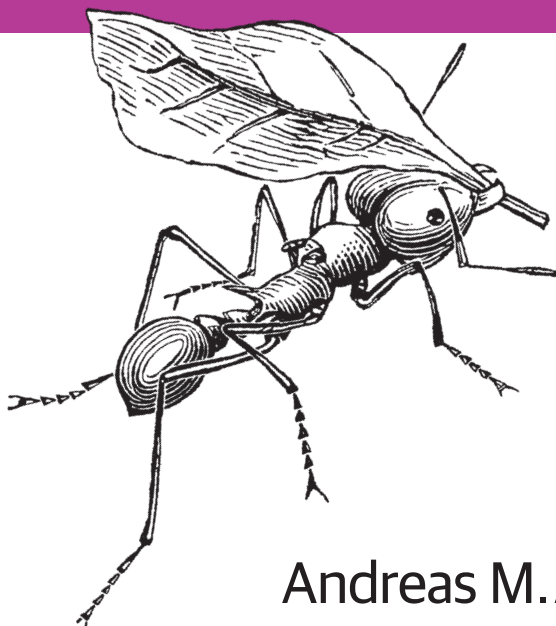
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2nd Edition



Mastering Bitcoin

PROGRAMMING THE OPEN BLOCKCHAIN



Andreas M. Antonopoulos

Mastering Bitcoin

Join the technological revolution that's taking the financial world by storm. *Mastering Bitcoin* is your guide through the seemingly complex world of bitcoin, providing the knowledge you need to participate in the internet of money. Whether you're building the next killer app, investing in a startup, or simply curious about the technology, this revised and expanded second edition provides essential detail to get you started.

Bitcoin, the first successful decentralized digital currency, is still in its early stages and yet it's already spawned a multibillion dollar global economy open to anyone with the knowledge and passion to participate. *Mastering Bitcoin* provides the knowledge. You simply supply the passion.

The second edition includes:

- A broad introduction of bitcoin and its underlying blockchain—ideal for nontechnical people, investors, and business executives
- An explanation of the technical foundations of bitcoin and cryptographic currencies for developers, engineers, and software and systems architects
- Details of the bitcoin decentralized network, peer-to-peer architecture, transaction lifecycle, and security principles
- New developments such as Segregated Witness, Payment Channels, and Lightning Network
- A deep dive into blockchain applications, including how to combine the building blocks offered by this platform into higher-level applications
- User stories, analogies, examples, and code snippets illustrating key technical concepts

Andreas M. Antonopoulos is a noted technologist and serial entrepreneur who has become one of the most well-known and well-respected figures in bitcoin. A public speaker, teacher, and writer, Andreas advises multiple technology startups and speaks regularly at conferences and community events around the world.

“In my tenure at Rubix by Deloitte, *Mastering Bitcoin* was featured on the required reading list for new technical hires who were approaching this topic for the first time.”

—**Iliana Oris Valiente**
Former Cofounder, Rubix by Deloitte

“Compiled collaboratively in the same spirit as the protocol that it describes, *Mastering Bitcoin* is the most thoroughly vetted reference for developers. If you wish to fully grok the potential of the blockchain as a platform, read this book.”

—**Jameson Lopp**
Software Engineer, BitGo

“Andreas’ book will help you join the software revolution in the world of finance.”

—**Naval Ravikant**
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