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Bitcoin

FOR
DUMMIES[®]
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Learn to:

- Understand the ins and outs of the Bitcoin market
- Set up your Bitcoin wallet and get started
- Protect yourself against fraud and theft

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Bitcoin For Dummies®

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Contents at a Glance

<i>Introduction</i>	1
<i>Part I: Bitcoin Basics</i>	5
Chapter 1: Introducing Bitcoin	7
Chapter 2: Buying and Storing Bitcoins.....	21
Chapter 3: Bitcoin Pros and Cons	43
Chapter 4: Making Money with Bitcoin	61
<i>Part II: Banking with Bitcoin</i>	77
Chapter 5: Your Bitcoin Wallet.....	79
Chapter 6: Bitcoin Transactions.....	91
Chapter 7: The Blockchain.....	103
<i>Part III: Using Bitcoin in Business</i>	111
Chapter 8: Using Bitcoin in Commerce.....	113
Chapter 9: Staying on the Right Side of Legal.....	123
Chapter 10: Bitcoin Security	135
Chapter 11: Mining for Bitcoins.....	147
<i>Part IV: The Part of Tens</i>	159
Chapter 12: Ten Great Ways to Use Bitcoin.....	161
Chapter 13: Ten (or So) Other Crypto-Currencies	167
Chapter 14: Ten Online Bitcoin Resources	173
<i>Index</i>	179

Table of Contents

Introduction	1
About This Book	1
Foolish Assumptions	2
Icons Used in This Book.....	2
Beyond the Book.....	3
Where to Go from Here	3
Part 1: Bitcoin Basics	5
Chapter 1: Introducing Bitcoin	7
The Origin of Bitcoin	7
Getting Technical	9
Bitcoin as Currency	10
Bitcoin as a currency tool.....	11
Bitcoin and retailers	12
Bitcoin and consumers	13
Figuring Out How Bitcoin Works.....	14
Using Bitcoin Anonymously	15
Introducing third-party anonymity	16
Protecting privacy	16
Demonstrating fungibility	17
Trusting the Idea of Bitcoin	18
Trusting bitcoin technology	19
Trusting bitcoin as currency.....	20
Chapter 2: Buying and Storing Bitcoins	21
Getting Started: How to Obtain Bitcoins.....	21
Getting registered on an exchange.....	22
Know-Your-Customer: Passing the KYC	24
Figuring out exchange rates	24
Understanding peer-to-peer versus regular exchanges	26
Storing Your Bitcoins: Being Safe While Using Exchanges	28
Using two-factor authentication (2FA).....	30
Understanding liability.....	31
Encrypting Your Bitcoins.....	33
Choosing a passphrase.....	33
Beware malware.....	34
Storing physical bitcoin	35

Buying Bitcoins in Person.....	36
Your bitcoin wallet address	36
Meeting in public places	38
Paying premium rates	38
Choosing a payment method	39
Hot Wallets and Cold Storage.....	40
Securing user funds	41
Preventing exchange hacks	42

Chapter 3: Bitcoin Pros and Cons 43

Adding Up the Pros of Bitcoin.....	43
Financial freedom	43
Security	47
Removing fraud.....	48
Transparency	50
Low fees	51
Subtracting the Cons of Bitcoin	52
Awareness and understanding.....	52
Trust	54
Risk and volatility	57
Limited use (for now).....	58

Chapter 4: Making Money with Bitcoin 61

Mining Bitcoins.....	61
How bitcoin mining works.....	61
A short history of bitcoin mining	62
Trading Bitcoins.....	64
Day trading versus fiat	64
Day trading versus altcoins.....	66
Crowdfunding with Bitcoin.....	67
Understanding ICOs and IPOs.....	68
Offering company shares and dividends.....	69
Holding Bitcoins for the Future.....	69
Driving your investment vehicle forwards	70
Hoarding your booty	71
Earning Bitcoin	72
Earning through forums.....	72
Earning through jobs.....	74
Earning through faucets	75

Part II: Banking with Bitcoin..... 77

Chapter 5: Your Bitcoin Wallet 79

Unlocking Public and Private Keys.....	79
Getting Your Hands on a Bitcoin Wallet	81
Software wallets	82
Hardware wallets	83

Paper wallets	83
Web wallets	86
Setting up a Bitcoin Address	87
Grasping Your Wallet Securely	88
Securing mobile wallets	88
Securing online wallets — or not.....	89
Securing paper wallets.....	90

Chapter 6: Bitcoin Transactions 91

Figuring Out How Transactions Work.....	91
Receiving Confirmations	94
Regular six confirmations.....	95
Double-spending.....	96
Zero confirmations	97
Calculating Bitcoin Fees	98
Looking at Transaction Speed.....	99
Understanding Mining Fees	99
Dealing with Multi-signature Transactions.....	100

Chapter 7: The Blockchain 103

Recording Transactions	103
Understanding Blockchain Analysis	105
Seeing Beyond “Just Transactions”	106
Working with Blockchain Applications	106
Moving Ahead to Bitcoin 2.0.....	108

Part III: Using Bitcoin in Business 111

Chapter 8: Using Bitcoin in Commerce 113

Selling Your Goods for Bitcoin	113
Selling on auction sites	113
Creating your own online store	114
Selling on BitcoinTalk forums	115
Looking at Bitcoin Payment Solutions	116
BitPay	118
Coinbase	119
Accepting Bitcoin Payments for Your Store.....	120
Online stores	120
Brick-and-mortar stores.....	121

Chapter 9: Staying on the Right Side of Legal 123

Understanding Bitcoin and Taxation.....	124
Taxable countries	125
Getting help with bitcoin taxes	128
Bitcoin Regulation Around the World	129
Regulating with BitLicense	130
Regulating elsewhere	131
Money transmitter licenses or not?	131



Chapter 10: Bitcoin Security 135

- The Bitcoin Network: An Overview of How It Works 135
 - What makes it secure..... 136
 - The role of bitcoin nodes..... 137
- Defending Bitcoin from Hackers 137
 - Hacking bitcoin services..... 138
- Watching Out for a 51 Percent Attack..... 140
 - Theorycrafting the 51 percent attack 140
 - How likely is a 51 percent attack? 141
- Double-Spending 142
 - Theorycrafting the bitcoin double-spend attack..... 143

Chapter 11: Mining for Bitcoins 147

- Heading Down the Mine 148
- Understanding How Bitcoin Mining Works 149
- Cloud Mining..... 150
 - Advantages of bitcoin cloud mining..... 151
 - Disadvantages of bitcoin cloud mining..... 151
 - Risks associated with bitcoin cloud mining..... 153
- Securing Bitcoin with Mining..... 153
- Starting Your Own Mine..... 154
 - Getting the right hardware..... 154
 - Calculating your costs..... 156

Part IV: The Part of Tens..... 159

Chapter 12: Ten Great Ways to Use Bitcoin 161

- Use Bitcoin as an Investment Vehicle 161
- Use Bitcoin As An Educational Tool..... 162
- Go and Spend Bitcoin for Everyday Needs..... 163
- Indulge in Luxury Expenses with Bitcoin..... 163
- Support Charities with Bitcoin..... 164
- Gamble Online 164
- Invest in Precious Metals: The Gold Standard
 - Reinvented 165
- Give It Away! The Joy of Gifting Bitcoin 165
- Pay Bills..... 165
- Use Bitcoin as a Social Experiment 166

Chapter 13: Ten (or So) Other Crypto-Currencies 167

- Litecoin: The Silver to Bitcoin's Gold..... 167
- Dogecoin: Such Wow, Much Fun, Very Coin..... 168
- Dash: Formerly Known as Darkcoin 168
- Ripple: A Different Type of Crypto-Currency with
 - Potential 169

Peercoin: Introducing Proof-of-Stake..... 169
StartCOIN: Crowdfunding..... 170
NXT: Using Proof-of-Stake for Transaction Consensus 170
CasinoCoin: Branding for Casino Users 171

Chapter 14: Ten Online Bitcoin Resources 173

The Bitcoin Wiki..... 173
BitcoinTalk Forums..... 174
Bitcoin subReddit 174
Bitcoin.org (and bitcoin.com) 174
Bitcoin News Sites and Blogs 175
Mainstream Media 175
Bitcoin Documentaries..... 176
Bitcoin Price Charts..... 176
FiatLeak..... 177
CoinMap and CoinATMRadar..... 177

Index..... 179

Introduction

Welcome to *Bitcoin For Dummies*! But just what is bitcoin? How can there be digital money? Is it, like, some kind of Internet money? Is it something you should even be concerned about, or indeed should you shy away from it? In the news, bitcoin coverage tends to be sketchy. You may have read articles about people losing their money, or using bitcoin for illicit purchases on the black market. Or you may have read amazing success stories of people and businesses flourishing by using it.

Fear not, dear readers. This book strips away the mystery and gets down to the facts. It patiently explains exactly what bitcoin is, discusses some of the possibilities this wonderfully disruptive yet inspirational technology holds, and lays out some of the potential benefits for all of us. Bitcoin could change our lives in a similar way that the Internet has done over the last few decades.

In short, this book tells you everything you need to know to get started. So what are you waiting for? Let's, um . . . get started!

About This Book

Bitcoin For Dummies tells you a bit about the history of this fascinating technology and explores bitcoin as a concept and product. We show you how to open a wallet so that you can safely store your own bitcoins. We even guide you through the process of obtaining some bitcoins. We demonstrate what you may do with those bitcoins and talk about the potential for earning money with them too. We touch upon regulatory and legal frameworks as they currently stand. We detail mining bitcoin and explain how you could become involved in that — and why it may not be worth it.

We also prop up the hood and take a good look underneath. We detail how transactions work within the bitcoin environment and delve deep into blockchain technology. We gaze into our crystal ball and speculate on how bitcoin and its blockchain system may develop in the future and how they may change many aspects of our lives. To round things off, we provide you with online resources to keep you up to date and help you become involved with the online community that is actively supporting bitcoin. Come on and join us. We think this will be one heck of a ride!

Foolish Assumptions

The only assumption we have about you, our reader, is that you are interested in learning some of the basics about this new form of currency. We hope you'll like what you read and will want to create your own wallet, start using bitcoin, and spread the word to friends and colleagues. But our basic assumption is that you've picked up this book because you want to find out more before jumping on board.

We also assume you have some basic experience with computers and the Internet. We figure you already know how to find your way around the Internet and how to take some simple steps to safeguard yourself online and protect your money. We don't expect you to be a tech expert who knows all there is to know about computing.

And that's because you don't need to be an expert to get started with bitcoin.

Icons Used in This Book

To help you pick out the information most useful to you, we've used a few graphical icons in the book to highlight key details. Whenever you see the following icons in the page margin, this is what you can expect from that paragraph:



We like to dispense our advice on a warm plate, ready for your consumption. This icon highlights our top tips for getting the best out of bitcoin and often includes insider knowledge to help you to achieve what you want as quickly and efficiently as possible.



When you see this icon on the page, we're speaking to you with our deep, velvety public information announcer voice: These are the most salient points to squirrel away in your brain for later use.



This icon warns you of common mistakes or pitfalls that could trip you up when it comes to bitcoin. We know you're going to use your common sense when it comes to money and online transactions, but from time to time we just like to tap you on the shoulder and say, "Pay attention and be careful." This icon is that tapping finger.



Online finances, the Internet, and bitcoin itself all have many weird and wonderfully specific ways of describing things, doing things, and generally flummoxing the unwise. Sometimes having a bit of slightly esoteric background knowledge helps, even if it's not directly related to getting the best from your bitcoin. This icon flags the parts you can safely skim over and not lose out by doing so.

Beyond the Book

But wait, there's more! We've not only put together a book that explores bitcoin, but we've also compiled some online bonus bits (at www.wiley.com/extras/bitcoin) to take things further:

- ✔ An online Part of Tens with tips on how bitcoin can help you.
- ✔ Two other online articles that cover certain aspects of bitcoin and banking, plus more about the blockchain.
- ✔ A handy e-cheat sheet (at www.dummies.com/cheatsheet/bitcoin) to keep important info handy at all times.

Where to Go from Here

As with all *For Dummies* books, you can start anywhere you like: Each chapter is designed to be as self-contained as possible. That said, we don't like to repeat ourselves too often, so you'll spot plenty of references to other chapters throughout.

If you're not sure where to begin and don't feel like engaging in the usual practice of "starting at the beginning," here are a couple suggestions:

- ✔ Chapter 9 is a great place to get started: Before you find out too much about bitcoin itself, this chapter will tell you whether bitcoin is used (and legal) in your country.
- ✔ If you want to plunge straight in and set up a bitcoin wallet, enabling you to acquire and spend bitcoin, flick through to Chapter 5.
- ✔ Chapter 10 is a good place for the level-headed to begin; it looks at bitcoin security, outlines the relative safety of using it, and suggests precautions you should consider taking.
- ✔ Chapter 12 provides you with some ready-made inspiration — it's all about what you can do with bitcoin once you have some. In other words, spend, spend, spend.

Having said that, you can certainly start at the very beginning . . . it's a pretty good place to start after all. Wherever you kick things off, we hope you enjoy and get something valuable from this book.

Part I
Bitcoin Basics



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In this part . . .

- ✔ Get familiar with the basics of what bitcoin is, how it came to be, and how it works.
- ✔ Find out how to obtain your own bitcoins and where to keep them once you have them — and where not to.
- ✔ Check out the advantages and disadvantages of bitcoin as a currency and a technological system.
- ✔ Read all about mining, funding, trading, and earning bitcoin.

Chapter 1

Introducing Bitcoin

In This Chapter

- ▶ Getting to know a bit about bitcoin
- ▶ Understanding how bitcoin benefits us all
- ▶ Staying safe and stashing your cash

So, bitcoin . . . you know it's a new form of money — a *digital currency*, to be exact — but just how does it work? Sit yourself down comfortably, and we will begin with the basics, the three major aspects of bitcoin:

- ✓ **Origin:** How it came to be
- ✓ **Technology:** How it works behind the scenes
- ✓ **Currency:** Using bitcoins as money

Exploring each of these aspects will help you understand bitcoin (or BTC, as it's sometimes known) and find out whether and how it can help you. Don't worry — we will stay top-level for now. Later chapters dig deeper.

Ready? Let's go.

The Origin of Bitcoin

The most important aspect of bitcoin may be the concept behind it. Bitcoin was created by developer Satoshi Nakamoto. Rather than trying to design a completely new payment method to overthrow the way we all pay for things online, Satoshi saw certain problems with existing payment systems and wanted to address them.

The concept of bitcoin is rather simple to explain: During the financial crisis of 2008, people from all over the world felt its debilitating economic effects. And at the time of this writing (early 2016), many are still feeling the effects in terms of the dwindling