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Introducing Ethereum and Solidity: Foundations of Cryptocurrency and Blockchain Programming for Beginners Chris Dannen Brooklyn, New York, USA ISBN-13 (pbk): 978-1-4842-2534-9 ISBN-13 (electronic): 978-1-4842-2535-6 DOI 10.1007/978-1-4842-2535-6 Library of Congress Control Number: 2017936045 Copyright © 2017 by Chris Dannen

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ethereum.org is here to help you build with Ethereum with documentation on foundational concepts as well as the development stack. Plus there are tutorials to get you up and running. Inspired by the Mozilla Developer Network , we thought Ethereum needed a place to house great developer content and resources.

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Great incite into what ethereum is and how it operates. Does not go into technical details of structure of ethereum blockchain as much as would have liked.

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Find many great new & used options and get the best deals for Introducing Ethereum and Solidity: Foundations of Cryptocurrency and Blockchain Programming for Beginners by Chris Dannen (Paperback, 2017) at the best online prices at eBay!

This book teaches you how to use Solidity and the Ethereum project - second only to Bitcoin in market capitalization. Blockchain protocols are taking the world by storm, and the Ethereum project, with its Turing-complete scripting language Solidity, has rapidly become a front-runner. Technologists from all fields and skill levels are converging to learn blockchain development and the potential of powerful censor-proof "dapps" is drawing new non-programmers to the space. Unlike Bitcoin, Ethereum has its own scripting language called Solidity, and Solidity gets its syntax from JavaScript. Introducing Ethereum and Solidity presents the blockchain phenomenon in context; then it situates Ethereum in a world pioneered by Bitcoin. It explains why developers and non-developers alike should consider developing their skills in smart contract patterns and distributed application development. Finally, it reviews the fundamentals of JavaScript programming alongside its introduction to Solidity programming, so that people who are unfamiliar with JavaScript, or people with rusty skills, can follow along and get coding.Finally, you will deploy a dapp with a regular HTML interface that can be accessed on the Web. Every Solidity tutorial out there today has the same flaw: they are written for advanced JavaScript developers who want to transfer their skills to a blockchain environment that will feel familiar. This book is accessible to non-JavaScript developers as much as it is to JavaScript developers. It is a powerful gateway for creative technologists of all types, from concept to deployment./div What You'll Learn How Ethereum (and other cryptocurrencies) work How distributed apps (dapps) are different than web apps How to write Ethereum smart contracts in Solidity language How to connect Ethereum smart contracts to your HTML/CSS/JavaScript web applications How to deploy your own dapp, coin, and blockchain How to work with basic and intermediate smart contracts Who This Book Is For Anyone who is curious about Ethereum will derive huge benefit from this book. It's accessible to anyone who has some familiarity with computer science, including product managers, CTOs, computer science, self-taught hackers, and anyone else who wants to get up and running with Ethereum quickly -- but lacks a strong JavaScript or web app development background. Experienced JavaScript programmers can also skip the first few sections and get a powerful introduction to smart contract authorship, dapp development, and dapp deployment. By the end of this book they will have a deep understanding of how blockchains work, and will be able to deploy real censor-proof dapps in the wild. Experts will find the advanced sample projects in this book rewarding, too, simply because of the power of Solidity. This book contains exciting sample code that can move real world assets, which will appeal to academic and corporate programmers.

Learn how to use Solidity and the Ethereum project - second only to Bitcoin in market capitalization. Blockchain protocols are taking the world by storm, and the Ethereum project, with its Turing-complete scripting language Solidity, has rapidly become a front-runner. This book presents the blockchain phenomenon in context; then situates Ethereum in a world pioneered by Bitcoin. See why professionals and non-professionals alike are honing their skills in smart contract patterns and distributed application development. You'll review the fundamentals of programming and networking, alongside its introduction to the new discipline of crypto-economics. You'll then deploy smart contracts of your own, and learn how they can serve as a back-end for JavaScript and HTML applications on the Web. Many Solidity tutorials out there today have the same flaw: they are written for "advanced" JavaScript developers who want to transfer their skills to a blockchain environment. Introducing Ethereum and Solidity is accessible to technology professionals and enthusiasts of all levels. You'll find exciting sample code that can move forward real world assets in both the academic and the corporate arenas. Find out now why this book is a powerful gateway for creative technologists of all types, from concept to deployment. What You'll Learn See how Ethereum (and other cryptocurrencies) work Compare distributed apps (dapps) to web apps Write Ethereum smart contracts in Solidity Connect Ethereum smart contracts to your HTML/CSS/JavaScript web applications Deploy your own dapp, coin, and blockchain Work with basic and intermediate smart contracts Who This Book Is For Anyone who is curious about Ethereum or has some familiarity with computer science Product managers, CTOs, and experienced JavaScript programmers Experts will find the advanced sample projects in this book rewarding because of the power of Solidity

Ethereum represents the gateway to a worldwide, decentralized computing paradigm. This platform enables you to run decentralized applications (DApps) and smart contracts that have no central points of failure or control, integrate with a payment network, and operate on an open blockchain. With this practical guide, Andreas M. Antonopoulos and Gavin Wood provide everything you need to know about building smart contracts and DApps on Ethereum and other virtual-machine blockchains. Discover why IBM, Microsoft, NASDAQ, and hundreds of other organizations are experimenting with Ethereum. This essential guide shows you how to develop the skills necessary to be an innovator in this growing and exciting new industry. Run an Ethereum client, create and transmit basic transactions, and program smart contracts Learn the essentials of public key cryptography, hashes, and digital signatures Understand how "wallets" hold digital keys that control funds and smart contracts Interact with Ethereum clients programmatically using JavaScript libraries and Remote Procedure Call interfaces Learn security best practices, design patterns, and anti-patterns with real-world examples Create tokens that represent assets, shares, votes, or access control rights Build decentralized applications using multiple peer-to-peer (P2P) components

Learn the most powerful and primary programming language for writing smart contracts and find out how to write, deploy, and test smart contracts in Ethereum. Key Features Get you up and running with Solidity Programming language Build Ethereum Smart Contracts with Solidity as your scripting language Learn to test and deploy the smart contract to your private Blockchain Book Description Solidity is a contract-oriented language whose syntax is highly influenced by JavaScript, and is designed to compile code for the Ethereum Virtual Machine. Solidity Programming Essentials will be your guide to understanding Solidity programming to build smart contracts for Ethereum and blockchain from ground-up. We begin with a brief run-through of blockchain, Ethereum, and their most important concepts or components. You will learn how to install all the necessary tools to write, test, and debug Solidity contracts on Ethereum. Then, you will explore the layout of a Solidity source file and work with the different data types. The next set of recipes will help you work with operators, control structures, and data structures while building your smart contracts. We take you through function calls, return types, function modifiers, and recipes in object-oriented programming with Solidity. Learn all you can on event logging and exception handling, as well as testing and debugging smart contracts. By the end of this book, you will be able to write, deploy, and test smart contracts in Ethereum. This book will bring forth the essence of writing contracts using Solidity and also help you develop Solidity skills in no time. What you will learn Learn the basics and foundational concepts of Solidity and Ethereum Explore the Solidity language and its uniqueness in depth Create new accounts and submit transactions to blockchain Get to know the complete language in detail to write smart contracts Learn about major tools to develop and deploy smart contracts Write defensive code using exception handling and error checking Understand Truffle basics and the debugging process Who this book is for This book is for anyone who would like to get started with Solidity Programming for developing an Ethereum smart contract. No prior knowledge of EVM is required.

Learn how to take your existing knowledge of Ethereum and Solidity to the next level. None your development skills and become more familiar with the syntax of the Solidity language by working through well-tested, well-documented intermediate-level sample projects. You will begin by covering the basics of Ethereum, Solidity, and gaming theory. From there, you will move onto sample projects that use smart contract engineering to create fun casino-style games that you can deploy and test on your friends and colleagues with real ether. All games are provably fair and auditable. so that players know the house won't always win! Ideal for any reader with exposure to Ethereum, the techniques this book teaches are applicable to game developers, software engineers, web developers, and cryptocurrency enthusiasts. What You'll Learn Use various features and best practices for smart contract programming in Ethereum and Solidity Develop and deploy games of chance, similar to the kind you'd find in a casino Create fun, easy projects with Ethereum integrate the Ethereum blockchain into games Who This Book Is For Entry-level programmers with some exposure to Ethereum; game developers, Blockchain and cryptocurrency enthusiasts looking to add Ethereum and Solidity development to their skill set; software engineers and Web developers

Use this book to write an Ethereum Blockchain Smart Contract, test it, deploy it, and create a web application to interact with your smart contract. Beginning Ethereum Smart Contracts Programming is your fastest and most efficient means of getting started if you are unsure where to begin and how to connect to the Ethereum Blockchain. The book begins with a foundational discussion of blockchain and the motivation behind it. From there, you will get up close and personal with the Ethereum Blockchain, learning how to use an Ethereum client (geth) to connect to the Ethereum Blockchain to perform transactions such as sending Ethers to another account. You will learn about smart contracts without having to wade through tons of documentation. Author Lee's "learn-by-doing" approach will allow you to be productive and feel confident in your ability in no time. The last part of this book covers tokens, a topic that has taken the cryptocurrency market by storm. Sample code in Python, Solidity, and JavaScript is provided in the book and online. What You'll Learn Understand the basic premise of blockchain and "record keeping" in a peer-to-peer network Experience blockchain in action by creating your own blockchain using Python Know the foundation of smart contracts programming and how to deploy and test smart contracts Work on a case study to illustrate the use of blockchain Be familiar with tokens, and how to create and launch your own ICO digital token Write smart contracts that transact using tokens Who This Book Is For Those who want to get started quickly with Ethereum Smart Contracts programming. Basic programming knowledge and an understanding of Python or JavaScript is recommended.

Learn Solidity And How To Create Smart Contracts With This Book!For the past couple of years, there hasn't been a bigger breakthrough in the IT world than the one that Blockchain technology has made. The extremely fast growth of the industry, market and the technology itself leads to an enormous shortage of programmers that truly understand the blockchain. Along with the blockchain, smart contracts have emerged and with them - Solidity.The idea of this book is to give you the easiest and best practices in becoming a blockchain developer. We will be focusing on the smart contracts development with Solidity in the Ethereum ecosystem.You will learn to create your first smart contracts in the Ethereum blockchain even if you are a complete beginner and you know nothing about programming or Solidity. I will show you the online IDE Remix to create your first smart contracts and we will go through all the features that Solidity provides us as a programming language.In this book you will learn the following: We'll learn the essentials of the Ethereum blockchain. How to make and protect our wallets as well as mastering Metamask as our main Ethereum wallet in the creation of our smart contracts. We will go through the basic and advanced concepts of the Solidity language. We learn in depth how you can build your own smart contracts and test them out instantly in Remix. I will teach you how to use Metamask as your Ethereum wallet and I will give you security advice that will keep your crypto assets secure. You will have assignments that will help you out understand the material better with actual practice and not only passive consumption. After you finish this course you will fall in love with Solidity, Ethereum ecosystem and the smart contract's creation.

Ready to dive into smart contract development for the blockchain? With this practical guide, experienced engineers and beginners alike will quickly learn the entire process for building smart contracts for Ethereum—the open source blockchain-based distributed computing platform. You'llget up to speed with the fundamentals and quickly move into builder mode. Kevin Solorio, Randall Kanna, and Dave Hoover show you how to create and test your own smart contract, create a frontend for users to interact with, and more. It's the perfect resource for people who want to break into the smart contract field but don't know where to start. In four parts, this book helps you: Explore smart contract fundamentals, including the Ethereum protocol, Solidity programming language, and the Ethereum Virtual Machine Dive into smart contract development using Solidity and gain experience with Truffle framework tools for deploying and testing your contracts Use Web3 to connect your smart contracts to an applicationso users can easily interact with the blockchain Examine smart contract security along with free online resources for smart contract security auditing

Discover the advanced features of Solidity that will help you write high-quality code and develop secure smart contracts with the latest ERC standards Key Features Delve into Solidity and understand control structures, function calls, and variable scopes Explore tools for developing, testing, and debugging your blockchain applications Learn advanced design patterns and best practices for writing secure smart contracts Book Description Solidity is among the most popular and contract-oriented programming languages used for writing decentralized applications (DApps) on Ethereum blockchain. If you're looking to perfect your skills in writing professional-grade smart contracts using Solidity, this book can help. You will get started with a detailed introduction to blockchain, smart contracts, and Ethereum, while also gaining useful insights into the Solidity programming language. A dedicated section will then take you through the different Ethereum Request for Comments (ERC) standards, including ERC-20, ERC-233, and ERC-721, and demonstrate how you can choose among these standards while writing smart contracts. As you approach later chapters, you will cover the different smart contracts available for use in libraries such as OpenZeppelin. You'll also learn to use different open source tools to test, review and improve the quality of your code and make it production-ready. Toward the end of this book, you'll get to grips with techniques such as adding security to smart contracts, and gain insights into various security considerations. By the end of this book, you will have the skills you need to write secure, production-ready smart contracts in Solidity from scratch for decentralized applications on Ethereum blockchain. What you will learn Test and debug smart contracts with Truffle, Ganache, Remix, and MetaMask Gain insights into maintaining code quality with different tools Get up to speed with ERC standards such as ERC-20 and ERC-721 Become adept at using design patterns while writing smart contracts Use MultiSignature (MultiSig) wallets and improve the security of contracts Use Oracle services to fetch information from outside the blockchain Who this book is for This book is for developers and data scientists who want to learn Ethereum, blockchain, and Solidity to write smart contracts and develop production-ready code. Basic knowledge of Solidity is assumed.

Dive into a secure future Professionals look to Ethereum as a blockchain-based platform to develop safe applications and conduct secure transactions. It takes a knowledgeable guiding hand to understand how Ethereum works and what it does - and Ethereum For Dummies provides that guidance. Written by one of the leading voices in the blockchain community and best selling author of Blockchain For Dummies, this book demystifies the workings of Ethereum and shows how it can enhance security, transactions, and investments. As an emerging application of blockchain technology, Ethereum attracts a wide swath of professionals ranging from financial pros who see it as a way to enhance their business, security analysts who want to conduct secure transactions, programmers who build apps that employ the Ethereum blockchain, or investors interested in cashing in on the rise of cryptocurrency. Ethereum For Dummies offers a starting point to all members of this audience as it provides easy-to-understand explanation of the tools and techniques of using Ethereum. Understand the fundamentals of Ethereum Build smart contracts Create decentralized applications Examine public and private chains If you need to get a grip on one of the biggest applications of blockchain technology, this book makes it easier.

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