

Book Secure Programming Cookbook For C And C Recipes

A Culinary Journey into the Heart of Secure Coding: The Book Secure Programming Cookbook for C and C++ Recipes

Prepare to embark on a truly extraordinary adventure that transcends the typical boundaries of technical literature. While the title might suggest a purely functional guide, "Book Secure Programming Cookbook for C and C++ Recipes" unveils itself as a surprisingly imaginative and deeply resonant experience. It's a book that doesn't just impart knowledge; it crafts a world, weaving together the intricate logic of secure coding with a narrative flair that will captivate even the most seasoned literature enthusiast.

What truly sets this "cookbook" apart is its remarkable ability to imbue a potentially dry subject with a vibrant, almost magical, setting. Imagine, if you will, a bustling digital forge where brilliant minds, armed with the sharpest coding tools, are not just building software, but safeguarding it from unseen threats. Each "recipe" is not merely a set of instructions, but a carefully crafted spell, a testament to the creativity and ingenuity required to build robust and impenetrable digital fortresses. This imaginative backdrop makes learning feel less like a chore and more like an exhilarating quest.

Beyond its captivating setting, the book delves surprisingly deep into the emotional core of secure programming. It explores the dedication, the foresight, and the sheer responsibility that developers carry. You'll find yourself empathizing with the challenges faced, celebrating the triumphs of secure design, and understanding the profound impact these efforts have on the digital lives of millions. This emotional depth is what gives the book its universal appeal, resonating with readers of all ages who appreciate the human element behind the technology.

This is a book that speaks to both the aspiring young coder and the seasoned veteran, to the curious mind and the dedicated scholar. The recipes are presented with clarity and precision, yet infused with a spirit of discovery. You'll find yourself eagerly turning the pages, not just to find a solution, but to uncover the next fascinating insight into the art of secure development.

Key Strengths of This Remarkable Read:

Imaginative Setting: Transforms technical concepts into a vivid and engaging narrative world.

Emotional Depth: Connects with readers on a human level, highlighting the responsibility and artistry of secure coding.

Universal Appeal: Accessible and inspiring for readers of all ages and backgrounds, regardless of prior coding experience.

Engaging Recipes: Presented not just as instructions, but as elegant solutions and creative challenges.

Timeless Relevance: The principles of secure programming are as crucial today as they were yesterday, and will be tomorrow.

We wholeheartedly encourage literature enthusiasts, young adults exploring new passions, and book clubs seeking a truly unique and thought-provoking read to dive into "Book Secure Programming Cookbook for C and C++ Recipes." It is a journey that entertains, educates, and inspires. This is more than just a technical manual; it's a testament to the power of human ingenuity and the enduring importance of protecting our digital world.

This book is a timeless classic, a testament to the fact that even the most technical subjects can be presented with artistry and soul. It will undoubtedly capture hearts worldwide with its blend of technical mastery and storytelling brilliance. Don't miss the opportunity to experience this magical journey into the heart of secure coding. It's an experience that will leave you enriched, enlightened, and eager to create a more secure digital future.

We offer a heartfelt recommendation that this book continues to capture hearts worldwide because it speaks to the fundamental human desire to build, protect, and innovate. It's a journey that resonates deeply, leaving a lasting impact on how we perceive and engage with the digital realm.

In conclusion, we offer a strong recommendation that celebrates the book's lasting impact. "Book Secure Programming Cookbook for C and C++ Recipes" is an essential read, a beacon of knowledge, and a testament to the fact that learning can be an extraordinary adventure. It's a book worth experiencing again and again.

Secure Programming Cookbook for C and C++Secure Programming Cookbook for C and C++Secure Programming Cookbook for C and C++Go Programming CookbookClojure Programming CookbookServerless Programming CookbookC# Programming CookbookHerb Schildt's Java Programming CookbookiOS Programming CookbookJava Extreme Programming CookbookC# Game Programming Cookbook for Unity 3DHerb Schildt's C++ Programming CookbookSwift 4 Programming CookbookOdata Programming Cookbook for .Net DevelopersPython Network Programming CookbookKotlin Programming CookbookQt5 Python GUI Programming CookbookC Programming CookbookThe Structured Programming CookbookBoost.Asio C++ Network Programming Cookbook John Viega John Viega John Viega Ian Taylor Makoto Hashimoto Heartin Kanikathottu Dirk Strauss Herbert Schildt Hossam Ghareeb Eric M. Burke Jeff W. Murray Herbert Schildt Keith Moon Steven Cheng M. Omar Faruque Sarker Rashi Karanpuria B. M. Harwani B. M. Harwani Paul Noll Dmytro Radchuk

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password sniffing spoofing buffer overflows and denial of service these are only a few of the attacks on today s computer systems and networks at the root of this epidemic is poorly written poorly tested and insecure code that puts everyone at risk clearly today s developers need help figuring out how to write code that attackers won t be able to exploit but writing such code is surprisingly difficult secure programming cookbook for c and c is an important new resource for developers serious about writing secure code it contains a wealth of solutions to problems faced by those who care about the security of their applications it covers a wide range of topics including safe initialization access control input validation symmetric and public key cryptography cryptographic hashes and macs authentication and key exchange pki random numbers and anti tampering the rich set of code samples provided in the book s more than 200 recipes will help programmers secure the c and c programs they write for both unix including linux and windows environments readers will learn how to avoid common programming errors such as buffer overflows race conditions and format string problems how to properly ssl enable applications how to create secure channels for client server

communication without ssl how to integrate public key infrastructure pki into applications best practices for using cryptography properly techniques and strategies for properly validating input to programs how to launch programs securely how to use file access mechanisms properly techniques for protecting applications from reverse engineering the book s web site supplements the book by providing a place to post new recipes including those written in additional languages like perl java and python monthly prizes will reward the best recipes submitted by readers secure programming cookbook for c and c is destined to become an essential part of any developer s library a code companion developers will turn to again and again as they seek to protect their systems from attackers and reduce the risks they face in today s dangerous world

secure programming cookbook for c and c is an important new resource for developers serious about writing secure code it contains a wealth of solutions to problems faced by those who care about the security of their applications it covers a wide range of topics including safe initialization access control input validation symmetric and public key cryptography cryptographic hashes and macs authentication and key exchange pki random numbers and anti tampering the rich set of code samples provided in the book s more than 200 recipes will help programmers secure the c and c programs they write for both unix including linux and windows environments readers will learn

password sniffing spoofing buffer overflows and denial of service these are only a few of the attacks on today s computer systems and networks at the root of this epidemic is poorly written poorly tested and insecure code that puts everyone at risk clearly today s developers need help figuring out how to write code that attackers won t be able to exploit but writing such code is surprisingly difficult secure programming cookbook for c and c is an important new resource for developers serious about writing secure code it contains a wealth of solutions to problems faced by those who care about the security of their applications it covers a wide range of topics including safe initialization access

control input validation symmetric and public key cryptography cryptographic hashes and macs authentication and key exchange pki random numbers and anti tampering the rich set of code samples provided in the book s more than 200 recipes will help programmers secure the c and c programs they write for both unix including linux and windows environments readers will learn how to avoid common programming errors such as buffer overflows race conditions and format string problems how to properly ssl enable applications how to create secure channels for client server communication without ssl how to integrate public key infrastructure pki into applications best practices for using cryptography properly techniques and strategies for properly validating input to programs how to launch programs securely how to use file access mechanisms properly techniques for protecting applications from reverse engineering the book s web site supplements the book by providing a place to post new recipes including those written in additional languages like perl java and python monthly prizes will reward the best recipes submitted by readers secure programming cookbook for c and c is destined to become an essential part of any developer s library a code companion developers will turn to again and again as they seek to protect their systems from attackers and reduce the risks they face in today s dangerous world

the go programming cookbook ensures go programmers may confidently and effectively navigate the complex software development landscape both newcomers to the world of go programming and seasoned professionals looking to sharpen their skills will find something of interest in this carefully written book this cookbook covers a wide range of topics from the basics of go syntax and core ideas to more advanced subjects like concurrency networking and microservices design building a go development environment learning the fundamentals of go constructs and mastering the art of go module dependency management are all covered in the first few chapters which prepare readers for what s to come to guarantee that readers can construct strong and maintainable programs the next sections cover error handling unit testing and database interfaces the book really comes into its own when it comes to

its in depth examination of network programming it covers topics like building http clients implementing ftp and ssh clients and using websockets for real time communication to prepare developers to create safe networked applications in a world where everything is always connected it teaches them how to establish secure tls ssl communications which is a fundamental component of security in addition to providing practical solutions the recipes educate readers on the concurrency model and design principles of go which helps them build an intuitive understanding of high performance software development key learnings get a solid grounding in programming by learning the syntax and concepts of go explore concurrency with goroutines and channels to maximize go s possibilities effortlessly handle intricate network programming jobs involving websockets and http clients learn tls ssl inside and out to make your applications secure for transmitted sensitive information effectively manage data by integrating with sql and nosql databases use go modules to have easier dependency management and build reproducibility make your go code clean and easy to maintain by following design patterns and other best practices get the most out of your system by learning about memory management benchmarking and profiling create web servers and microservices from the ground up that are scalable and perform exceptionally well become an expert go problem solver by learning practical answers to real world issues table of content setting up and exploring go advanced go features and techniques file handling and data processing in go building and managing go apis implementing rpc and grpc services in go services and automation using go building microservices architecture using go strengthening database interactions enhancing performance and best practices in go networking and protocol handling

handle every problem you come across in the world of clojure programming with this expert collection of recipes about this book discover a wide variety of practical cases and real world techniques to enhance your productivity with clojure learn to resolve the everyday issues you face with a functional mindset using clojure you will learn to write highly efficient more productive and error free programs without the risk of deadlocks and race conditions who this

book is for this book is for clojure developers who have some clojure programming experience and are well aware of their shortcomings if you want to learn to tackle common problems become an expert and develop a solid skill set then this book is for you what you will learn manipulate access filter and transform your data with clojure write efficient parallelized code through clojure abstractions tackle complex concurrency easily with reactive programming build on haskell abstractions to write dynamic functional tests write aws lambda functions effortlessly put clojure in use into your iot devices use clojure with slack for instant monitoring scaling your clojure application using docker develop real time system interactions using mqtt and websockets in detail when it comes to learning and using a new language you need an effective guide to be by your side when things get rough for clojure developers these recipes have everything you need to take on everything this language offers this book is divided into three high impact sections the first section gives you an introduction to live programming and best practices we show you how to interact with your connections by manipulating transforming and merging collections you ll learn how to work with macros protocols multi methods and transducers we ll also teach you how to work with languages such as java and scala the next section deals with intermediate level content and enhances your clojure skills here we ll teach you concurrency programming with clojure for high performance we will provide you with advanced best practices tips on clojure programming and show you how to work with clojure while developing applications in the final section you will learn how to test deploy and analyze websocket behavior when your app is deployed in the cloud finally we will take you through devops developing with clojure has never been easier with these recipes by your side style and approach this book takes a recipe based approach by diving directly into helpful programming concepts it will give you a foolproof approach to programming and teach you how to deal with problems that may arise while working with clojure the book is divided into three sections giving you the freedom skip to the section of your choice depending on the problem faced

build secure and deploy real world serverless applications in aws and peek into the serverless cloud offerings from azure google cloud and ibm cloud key featuresbuild serverless applications with aws lambda aws cloudformation and aws cloudwatchperform data analytics and natural language processing nlp on the aws serverless platformexplore various design patterns and best practices involved in serverless computingbook description managing physical servers will be a thing of the past once you re able to harness the power of serverless computing if you re already prepped with the basics of serverless computing serverless programming cookbook will help you take the next step ahead this recipe based guide provides solutions to problems you might face while building serverless applications you ll begin by setting up amazon services aws the primary cloud provider used for most recipes the next set of recipes will cover various components to build a serverless application including rest apis database user management authentication web hosting domain registration dns management cdn messaging notifications and monitoring the book also introduces you to the latest technology trends such as data streams machine learning and nlp you will also see patterns and practices for using various services in a real world application finally to broaden your understanding of serverless computing you ll also cover getting started guides for other cloud providers such as azure google cloud platform and ibm cloud by the end of this book you ll have acquired the skills you need to build serverless applications efficiently using various cloud offerings what you will learnserverless computing in aws and explore services with other cloudsdevelop full stack apps with api gateway cognito lambda and dynamodbhosting with s3 cloudfront route 53 and aws certificate managersqs and sns for effective communication between microservices monitoring and troubleshooting with cloudwatch logs and metrics explore kinesis streams amazon ml models and alexa skills kitwho this book is for for developers looking for practical solutions to common problems while building a serverless application this book provides helpful recipes to get started with this intermediate level book knowledge of basic programming is a must

quick fixes to your common c programming problems with a focus on c 6 0 about this book unique recipes for c that

places it in its real world context you will be able to get yourself out of any coding corner youve backed yourself into all code samples available through github to bring c in line with modern development workflows written to the latest specification of c 6 0 who this book is for the book is aimed at developers who have basic familiarity with c programming and will know the vs 2015 environment what you will learn write better and less code to achieve the same result as in previous versions of c generate tests from the code contracts for mission critical methods integrate code in visual studio with github create a web application in azure design and build a microservice architecture demystify the rx library using reactive extensions write high performing codes in c and understanding multi threading security and debugging implement code contracts on code in visual studio in detail during your application development workflow there is always a moment when you need to get out of a tight spot through a recipe based approach this book will help you overcome common programming problems and get your applications ready to face the modern world we start with c 6 giving you hands on experience with the new language features next we work through the tasks that you perform on a daily basis such as working with strings generics and lots more gradually we move on to more advanced topics such as the concept of object oriented programming asynchronous programming reactive extensions and code contracts you will learn responsive high performance programming in c and how to create applications with azure next we will review the choices available when choosing a source control solution at the end of the book we will show you how to create secure and robust code and will help you ramp up your skills when using the new version of c 6 and visual studio style and approach unique recipe based guide that will help you gain a solid understanding of the new concepts in c 6 and visual studio enterprise 2015 in a concise and technically correct manner

your ultimate how to guide to java programming legendary programming author herb schildt shares some of his favorite programming techniques in this high powered java cookbook organized for quick reference each recipe shows

how to accomplish a practical programming task a recipe begins with a list of key ingredients the classes methods and interfaces followed by step by step instructions that show how to assemble them into a complete solution detailed discussions explain the how and why behind each step and a full code example puts the recipe into action each recipe ends with a list of options and alternatives that suggest ways to adapt the technique to fit a variety of situations whether you re a beginner or an experienced pro you ll find recipes that are sure to satisfy your java programming appetite topics include string handling regular expressions file handling applets servlets swing the collections framework multithreading formatting data learn how to find substrings that match a regular expression use regular expressions to tokenize a string compress and decompress data files create a zip file format time and date use printf to display formatted data reverse rotate and shuffle a list use a comparator with a collection create a simple swing application create a swing based applet create a simple servlet use a cookie with a servlet synchronize threads monitor a thread s state set and obtain a thread s priority use jscrollpane to automate scrolling access a resource using httpurlconnection schedule a task for future execution use reflection to dynamically create an object and call methods much much more

over 50 exciting and powerful recipes to help you unearth the promise of ios programming about this book create high performance ios apps with a focus on application development apis and techniques enrich your ui skills with uistoryboard autolayout size classes and container view produce enhanced results with ios 10 as a result of learning and implementing pro level practices techniques and solutions who this book is for if you are an ios developer on a quest to develop your perfect ios app then this book is for you it would also prove to be a valuable resource for those who want to get up and running with ios development through a clear practical approach in order to unleash the full potential of this book basic swift programming knowledge is necessary what you will learn build your own custom uiviews through code or the interface builder implement a dynamic and interactive interface in an ios app work

on various graphics related elements and the process of using them together to make meaningful shapes use the side over and split view to interact with multiple apps concurrently encrypt json calls to make the app more secure work on web markup feature to enhance search optimization in detail do you want to understand all the facets of ios programming and build complex ios apps then you have come to the right place this problem solution guide will help you to eliminate expensive learning curves and focus on specific issues to make you proficient at tasks and the speed up time involved beginning with some advanced ui components such as stack views and uicollectionview you will gradually move on to building an interface efficiently you will work through adding gesture recognizer and touch elements on table cells for custom actions you will work with the photos framework to access and manipulate photos you will then prepare your app for multitasking and write responsive and highly efficient apps next you will integrate maps and core location services while making your app more secure through various encryption methods finally you will dive deep into the advanced techniques of implementing notifications while working with memory management and optimizing the performance of your apps by the end of the book you will master most of the latest ios 10 frameworks style and approach this is the best practical resource on ios 10 development this book with its no nonsense approach and a clear practical focus will be your best friend on your quest to develop your perfect ios app the best thing about this book is that in addition to recipes on ios programming techniques and app development essentials it will take you on a complete guided tour of all the new app development apis that are shipped with ios 10

brimming with over 100 recipes for getting down to business and actually doing xp the java extreme programming cookbook doesn't try to sell you on xp it succinctly documents the most important features of popular open source tools for xp in java including ant junit http nit cactus tomcat xdoclet and then digs right in providing recipes for implementing the tools in real world environments

this second edition of c game programming cookbook for unity 3d expounds upon the first with more details and techniques with a fresh array of chapters updated c code and examples jeff w murray s book will help the reader understand structured game development in unity unlike ever before new to this edition is a step by step tutorial for building a 2d infinite runner game from the framework and scripts included in the book the book contains a flexible and reusable framework in c suitable for all game types from game state handling to audio mixers to asynchronous scene loading the focus of this book is building a reusable structure to take care of many of the most used systems improve your game s sound in a dedicated audio chapter covering topics such as audio mixers fading and audio ducking effects or dissect a fully featured racing game with car physics lap counting artificial intelligence steering behaviors and game management use this book to guide your way through all the required code and framework to build a multi level arena blaster game features focuses on programming structure and an industry level c based framework extensive breakdowns of all the important classes example projects illustrate and break down common and important unity c programming concepts such as coroutines singletons static variables inheritance and scriptable objects three fully playable example games with source code a 2d infinite runner an arena blaster and an isometric racing game the script library includes a base game manager timed and proximity spawning save profile manager weapons control artificial intelligence controllers path following target chasing and line of sight patrolling behaviors user interface canvas management and fading car physics controllers and more code and screenshots have been updated with the latest versions of unity these updates will help illustrate how to create 2d games and 3d games based on the most up to date methods and techniques experienced c programmers will discover ways to structure unity projects for reusability and scalability the concepts offered within the book are instrumental to mastering c and unity in his game career spanning more than 20 years jeff w murray has worked with some of the world s largest brands as a game designer programmer and director a unity user for over 14 years he now works as a consultant and freelancer between developing his own vr games and experiments with unity

your ultimate how to guide to c programming legendary programming author herb schildt shares some of his favorite programming techniques in this high powered c cookbook organized for quick reference each recipe shows how to accomplish a practical programming task a recipe begins with a list of key ingredients classes functions and headers followed by step by step instructions that show how to assemble them into a complete solution detailed discussions explain the how and why behind each step and a full code example puts the recipe into action each recipe ends with a list of options and alternatives that suggest ways to adapt the technique to fit a variety of situations whether you re a beginner or an experienced pro you ll find recipes that are sure to satisfy your c programming appetite topics include string handling standard template library stl containers algorithms function objects binders negators adaptors iterators i o formatting data learn how to tokenize a null terminated string create a search and replace function for strings implement subtraction for string objects use the vector deque and list sequence containers use the container adaptors stack queue and priority queue use the map multimap set and multiset associative containers reverse rotate and shuffle a sequence create a function object use binders negators and iterator adapters read and write files use stream iterators to handle file i o use exceptions to handle i o errors create custom inserters and extractors format date time and numeric data use facets and the localization library overload the and operators create an explicit constructor and much much more

over 50 recipes to help you quickly and efficiently build applications with swift 4 and xcode 9 about this book write robust and efficient code and avoid common pitfalls using swift 4 get a comprehensive coverage of the tools and techniques needed to create multi platform apps with swift 4 packed with easy to follow recipes this book will help you develop code using the latest version of swift who this book is for if you are looking for a book to help you learn about the diverse features offered by swift 4 along with tips and tricks to efficiently code and build applications then this book is for you basic knowledge of swift or general programming concepts will be beneficial what you will learn

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the recipes in this book are easy to understand and follow as the author discusses real world scenarios it is not a comprehensive reference to the whole of odata but a practical guide that boosts proficiency when working with the various aspects of odata programming the examples are supported by relevant background information for ease of

understanding if you are a net developer and you want to learn how to use odata in real world data access application development then this book is for you to follow the recipes you will need to be comfortable with net framework visual studio ide c language and the basics of web programming like http xml json

an easytofollow guide full of handson examples on realworld networking tasks it covers the advanced topics of network programming in python using a set of selected recipes if you are a network programmer system network administrator or a web application developer this book is ideal for you you should have a basic familiarity with the python programming language and tcp ip networking concepts however if you are a novice you will develop an understanding of the concepts as you progress with this book this book will serve as a supplementary material for developing handson skills in any academic course on network programming

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to test and secure your applications with kotlin finally this book supplies recipes that will help you migrate your java code to kotlin and will help ensure that it s interoperable with java what you will learn understand the basics and object oriented concepts of kotlin programming explore the full potential of collection frameworks in kotlin work with sqlite databases in android make network calls and fetch data over a network use kotlin s anko library for efficient and quick android development uncover some of the best features of kotlin lambdas and delegates set up web service development environments write servlets and build restful services with kotlin learn how to write unit tests integration tests and instrumentation acceptance tests who this book is for this book will appeal to kotlin developers keen to find solutions for their common programming problems java programming knowledge would be an added advantage

qt5 python gui programming cookbook will guide you from the very basics of creating a fully functional gui application using pyqt with only a few lines of code each recipe adds more widgets to the guis we are creating you will learn how easy it is to get started and you might be surprised how advanced you can become in just a short time of coding

a comprehensive guide with curated recipes to help you gain a deeper understanding of modern c key features learn how to make your applications swift and robust by leveraging powerful features of c understand the workings of arrays strings functions and more down to how they operate in memory master process synchronization during multi tasking and server client process communication book description c is a high level language that s popular among developers it enables you to write drivers for different devices access machine level hardware apply dynamic memory allocation and much more with self contained tutorials known as recipes this book will guide you in dealing with c and its idiosyncrasies and help you benefit from its latest features beginning with common tasks each recipe addresses a specific problem followed by explaining the solution to get you acquainted with what goes on under the hood you will

explore core concepts of the programming language including how to work with strings pointers and single and multi dimensional arrays you will also learn how to break a large application into small modules by creating functions handling files and using a database finally the book will take you through advanced concepts such as concurrency and interprocess communication by the end of this book you ll have a clear understanding and deeper knowledge of c programming which will help you become a better developer what you will learn manipulate single and multi dimensional arrays perform complex operations on strings understand how to use pointers and memory optimally discover how to use arrays functions and strings to make large applications implement multitasking using threads and process synchronization establish communication between two or more processes using different techniques store simple text in files and store data in a database who this book is for if you re a programmer with basic experience in c and want to leverage its features through modern programming practices then this book is for you

over 25 hands on recipes to create robust and highly efficient cross platform distributed applications with the boost asio libraryabout this book build highly efficient distributed applications with ease enhance your cross platform network programming skills with one of the most reputable c libraries find solutions to real world problems related to network programming with ready to use recipes using this detailed and practical handbookwho this book is forif you want to enhance your c network programming skills using the boost asio library and understand the theory behind development of distributed applications this book is just what you need the prerequisite for this book is experience with general c 11 to get the most from the book and comprehend advanced topics you will need some background experience in multithreading what you will learn boost your working knowledge of one of the most reputable c networking libraries boost asio familiarize yourself with the basics of tcp and udp protocols create scalable and highly efficient client and server applications understand the theory behind development of distributed applications increase the security of your distributed applications by adding ssl support implement a http client easily use iostreams scatter

gather buffers and timers in detail starting with recipes demonstrating the execution of basic boost asio operations the book goes on to provide ready to use implementations of client and server applications from simple synchronous ones to powerful multithreaded scalable solutions finally you are presented with advanced topics such as implementing a chat application implementing an http client and adding ssl support all the samples presented in the book are ready to be used in real projects just out of the box as well as excellent practical examples the book also includes extended supportive theoretical material on distributed application design and construction style and approach this book is a set of recipes each containing the statement and description of a particular practical problem followed by code sample providing the solution to the problem and detailed step by step explanation recipes are grouped by topic into chapters and ordered by the level of complexity from basic to advanced

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Introduction

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