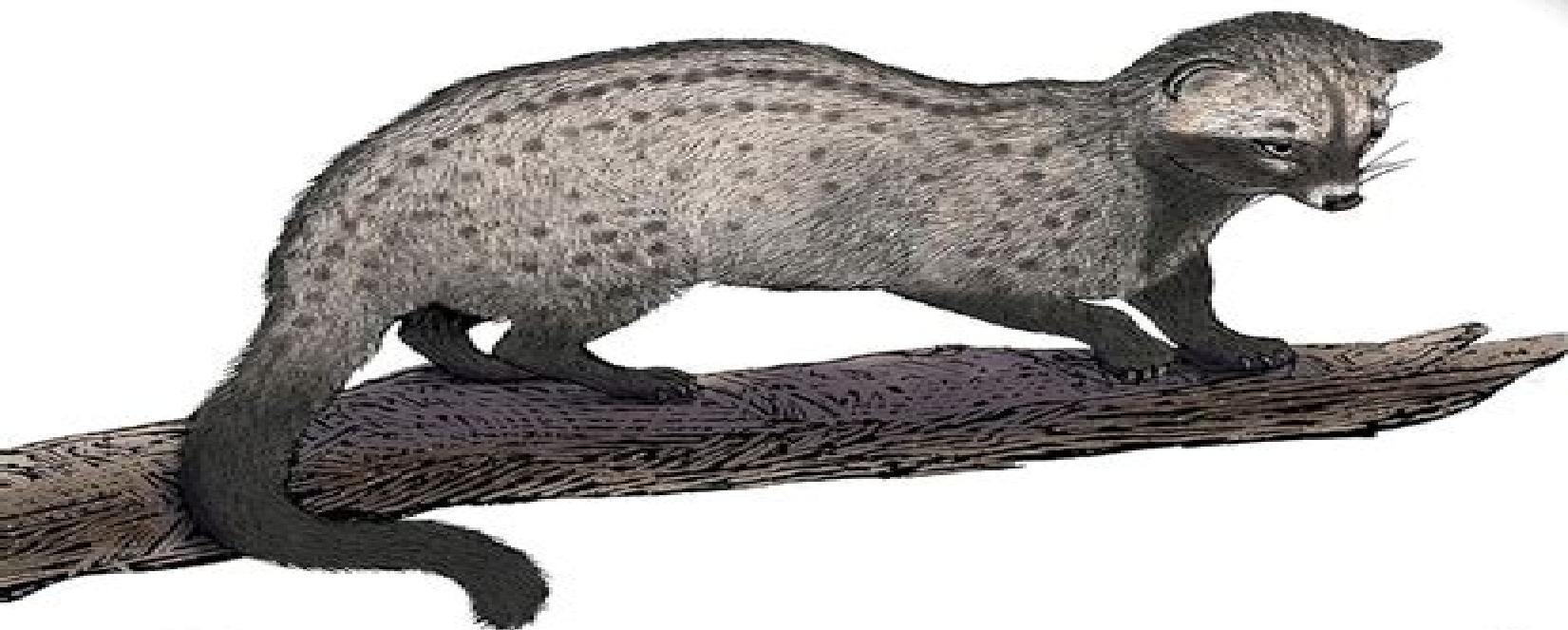


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Head First C# Andrew Stellman,Jennifer Greene,2020-12-04 What will you learn from this book? Dive into C# and create apps, user interfaces, games and more using this fun and highly visual introduction to C# .NET Core and Visual Studio. With this completely updated guide which covers C# 8.0 and Visual Studio 2019, beginning programmers like you will build a fully functional game in the opening chapter. Then you'll learn how to use classes and object oriented programming, create 3D games in Unity and query data with LINQ. And you'll do it all by solving puzzles, doing hands on exercises and building real world applications. By the time you're done you'll be a solid C# programmer and you'll have a great time along the way. What's so special about this book? Based on the latest research in cognitive science and learning theory, Head First C# uses a visually rich format to engage your mind rather than a text heavy approach that puts you to sleep. Why waste your time struggling with new concepts? This multisensory learning experience is designed for the way your brain really works. *Hands-On RESTful Web Services with ASP.NET Core 3* Samuele Resca,2019-12-27

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Hands-On Design Patterns with C++

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computation to happen at compile time. With this book you'll realize how templates help you avoid writing duplicate code and are key to creating generic libraries such as the standard library or Boost that can be used in a multitude of programs. The introductory chapters of this book will give you insights into the fundamentals of templates and metaprogramming. You'll then move on to practice writing complex templates and exploring advanced concepts such as template recursion, template argument deduction, forwarding references, type traits, and conditional compilation. Along the way you'll learn how to write variadic templates and how to provide requirements to the template arguments with C 20 constraints and concepts. Finally, you'll apply your knowledge of C metaprogramming templates to implement various metaprogramming patterns and techniques. By the end of this book you'll have learned how to write effective templates and implement metaprogramming in your everyday programming journey. What you will learn: Understand the syntax for all types of templates. Discover how specialization and instantiation works. Get to grips with template argument deduction and forwarding references. Write variadic templates with ease. Become familiar with type traits and conditional compilation. Restrict template arguments in C 20 with constraints and concepts. Implement patterns such as CRTP mixins and tag dispatching.

Who this book is for: This book is for beginner to intermediate C developers who want to learn about template metaprogramming as well as advanced C developers looking to get up to speed with the new C 20 features related to templates and the various idioms and patterns. Basic C coding experience is necessary to get started with this book.

The Software Optimization Cookbook

Richard Gerber, 2002 Revealing the secrets of the software tuning process. The Software Optimization Cookbook provides recipes for high performance applications on the Intel Pentium III and Pentium 4 processors. Simple explanations and C language examples show you how to address performance issues with algorithms, memory access, branching, SIMD instructions, multiple threads, and floating point calculations. With this book you need not be a processor architect or assembly language expert to get the full power out of your software on the 32 bit Intel Architecture. Learn how to Use performance tools and tested concepts to analyze and improve applications. Determine which portions of an application should be given highest priority for optimizations. Identify the reasons that certain portions of your application are slower than they should be. Improve an application by working directly on the root cause of a software bottleneck. Design an application from the ground up for maximum performance.

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to achieve the goal of extending C programs at runtime You ll learn in sequence how to get and compile the Lua library the Lua programming language calling Lua code from C and calling C code from Lua In each topic you ll practice with code examples and learn the in depth mechanisms for smooth working Throughout the book the latter examples build on the earlier ones while also acting as a standalone You ll learn to implement Lua executor and Lua binding generator which you can use in your projects directly with further customizations By the end of this book you ll have mastered integrating Lua into C and using Lua in your C project efficiently gained the skills to extend your applications at runtime and achieved dynamic and adaptable C development What you will learn Explore how to access and compile Lua source code Call Lua code from C for enhanced functionality Integrate C code into Lua for powerful interactions Deepen your understanding of Lua stack for advanced usage Implement a project ready Lua executor and binding generator Extend C projects with customizable and extensible Lua scripting Who this book is for This book is for C developers seeking to seamlessly integrate Lua learn the Lua programming language by examples or enhance their understanding of Lua C interaction Basic knowledge of C is required to fully benefit from this book

Learn C Programming Jeff Szuhay, 2022-08-30 Get started with writing simple programs in C while learning core programming concepts Key Features Learn essential C concepts such as variables data structures functions loops and pointers Grasp the core programming aspects that form the base of many modern programming languages Work with updated code samples and cover array declaration and initialization in detail in this new edition Book Description The foundation for many modern programming languages such as C C JavaScript and Go C is widely used as a system programming language as well as for embedded systems and high performance computing With this book you ll be able to get up to speed with C in no time The book takes you through basic programming concepts and shows you how to implement them in the C programming language Throughout the book you ll create and run programs that demonstrate essential C concepts such as program structure with functions control structures such as loops and conditional statements and complex data structures As you make progress you ll get to grips with in code documentation testing and validation methods This new edition expands upon the use of enumerations arrays and additional C features and provides two working programs based on the code used in the book What s more this book uses the method of intentional failure where you ll develop a working program and then purposely break it to see what happens thereby learning how to recognize possible mistakes when they happen By the end of this C programming book you ll have developed basic programming skills in C that can be easily applied to other programming languages and have gained a solid foundation for you to build on as a programmer What you will learn Implement fundamental programming concepts through C programs Understand the importance of creating complex data types and the functions to manipulate them Develop good coding practices and learn to write clean code Validate your programs before developing them further Use the C Standard Library functions and understand why it is advantageous Build and run a multi file program with Make Get an overview of how C has changed since

its introduction and where it is going Who this book is for If you're an absolute beginner who has basic familiarity with operating a computer this book will help you learn the most fundamental concepts and practices that you need to know to become a successful C programmer If you're an experienced programmer you'll find the full range of C syntax as well as common C idioms covered in the book useful [Java Cookbook](#) Ian F Darwin, 2004-06-14 Covers all of the major APIs from Java 1.4 and 1.5 Covers many specialized APIs including those for working with Struts Ant and other Open Source tools

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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 [Java 7 Concurrency Cookbook](#) Javier Fernández González, Javier Fernandez, 2012 Java 7 Concurrency Cookbook is a practical Cookbook packed with real world solutions Intermediate advanced level Java developers will learn from task based recipes to use Java s concurrent API to program thread safe solutions If you are a Java developer who wants to take your knowledge of concurrent programming and multithreading further as well as discover the new concurrency features of Java 7 then Java 7 Concurrency Cookbook is for you You should already be comfortable with general Java development practices and a basic grasp of threads would be an advantage [MSDN Magazine](#), 2001 [**Advanced C++ Programming Cookbook**](#) Rian Quinn, 2020-01-30 A recipe based

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exception safety guarantees by introducing precise declarations Write library quality code that meets professional standards Practice writing reliable performant code that exposes consistent behavior in programs Understand why you need to implement design patterns and how it's done Work with complex examples to understand various aspects of good library design Who this book is for This book is for intermediate and expert level C++ developers who are looking to explore the lesser known functionalities of the language to improve the efficiency of their code and the way they develop applications Basic knowledge of object oriented programming concepts and the Standard Template Library STL is assumed

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