Template Metaprogramming with C++

Learn everything about C++ templates and unlock the power of template metaprogramming

Marius Bancila

C Template Metaprogramming

David Abrahams,Aleksey Gurtovoy

C Template Metaprogramming:

Template Metaprogramming with C++ Marius Bancila,2022-08-19 Understand how to use modern C templates for writing maintainable robust and fast software Key Features Grasp the fundamentals of and learn to write effective C templates Get up to speed with the latest C 20 template features such as constraints and concepts Explore different patterns and idioms to integrate templates in your program design Book Description Learn how the metaprogramming technique enables you to create data structures and functions that allow 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 the various idioms and patterns Basic C coding experience is necessary to get started with this book   *C++ Template Metaprogramming* David Abrahams,Aleksey Gurtovoy,2004-12-10 C Template Metaprogramming sheds light on the most powerful idioms of today s C at long last delivering practical metaprogramming tools and techniques into the hands of the everyday programmer A metaprogram is a program that generates or manipulates program code Ever since generic programming was introduced to C programmers have discovered myriad template tricks for manipulating programs as they are compiled effectively eliminating the barrier between program and metaprogram While excitement among C experts about these capabilities has reached the community at large their practical application remains out of reach for most programmers This book explains what metaprogramming is and how it is best used It provides the foundation you ll need to use the template metaprogramming effectively in your own work This book is aimed at any programmer who is comfortable with idioms of the Standard Template Library STL C power users will gain a new insight into their existing work and a new fluency in the domain of metaprogramming Intermediate level programmers who have learned

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Advanced Metaprogramming in Classic C++ Davide Di Gennaro,2015-05-08 Advanced Metaprogramming in Classic C aims to be both an introduction and a reference to C template metaprogramming TMP TMP is presented in the book as a set of techniques that will bring a new style in C and make code exceptionally clear and efficient The book deals with language aspects design patterns examples and applications seen as case studies Special emphasis is put on small reusable techniques that will improve the quality of daily work What makes the book exceptional is the level of understanding of the concepts involved imparted by the author This is not just a rote overview of metaprogramming You will truly understand difficult topics like static assertions how to write metafunctions overload resolution lambda expressions and many others More than that you will work through them with practical examples guided by the author s frank explanations This book requires you to think and to learn and to understand the language so that youcan program at a higher level   **C++ Template Metaprogramming** Martin C Morales,2025-09-07 C Template Metaprogramming A Guide to Crafting Elegant Efficient and Type Safe Code through Compile Time Computation takes you on a journey from first principles to advanced modern techniques This book demystifies a topic often seen as complex turning it into a practical powerful tool in your C arsenal You ll move from the what and why to building real world high performance components learning to leverage the full power of the C compiler Have you ever chased a bug that a simple unit mismatch could have prevented Have you ever struggled to optimize a critical loop bogged down by temporary objects What if you could write code that was proven correct by the compiler catching logical errors before you even hit run This book tells the story of that transformation We journey from the classic powerful but complex patterns of traditional template metaprogramming to the clean intuitive and expressive world of modern C 17 and C 20 You will learn to stop fighting the type system and start commanding it turning the compiler from a simple translator into your most powerful ally in the quest for correct high performance code What s Inside Inside you will discover how to Master the fundamentals from template specialization to variadic templates Replace complex recursion with clean modern constexpr functions Understand the evolution of conditional compilation from classic SFINAE to the superior if constexpr and C 20 Concepts Implement powerful design patterns like Policy Based Design Tag Dispatching and Expression Templates Build practical compile time projects including a Typelist a rational number class and a type safe dimensional analysis framework Learn to debug and unit test your compile time code effectively Who It s Meant For This book is for the intermediate to advanced C developer who is ready to unlock a new level of mastery It is essential for Library authors looking to build powerful zero overhead abstractions Developers in performance critical domains such as

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topics as Heterogeneous dictionaries and policy templates An introduction to deep learning Type system and basic data types Operations and expression templates Basic layers Composite and recurrent layers Evaluation and its optimization Metaprogramming can construct flexible and efficient code For C developers who are familiar with object oriented programming the main difficulty in learning and mastering C metaprogramming is establishing the thinking mode of functional programming The meta programming approach involved at compile time is functional which means that the intermediate results of the construction cannot be changed and the impact may be greater than expected This book enables C programmers to develop a functional mindset and metaprogramming skills The book also discusses the development cost and use cost of metaprogramming and provides workarounds for minimizing these costs *Exploring C++* Ray Lischner,2009-02-07 Exploring C uses a series of self directed lessons to divide C into bite sized chunks that you can digest as rapidly as you can swallow them The book assumes only a basic understanding of fundamental programming concepts variables functions expressions statements and requires no prior knowledge of C or any other particular language It reduces the usually considerable complexity of C The included lessons allow you to learn by doing as a participant of an interactive education session You ll master each step in one sitting before you proceed to the next Author Ray Lischner has designed questions to promote learning new material And by responding to questions throughout the text you ll be engaged every step of the way **C++ Template Metaprogramming** David Abrahams,Aleksey Gurtovoy,2005 This book is aimed at any programmer who is comfortable with idioms of the Standard Template Library STL C power users will gain a new insight into their existing work and a new fluency in the domain of metaprogramming Intermediate level programmers who have learned a few advanced template techniques will see where these tricks fit in the big picture and will gain the conceptual foundation to use them with discipline Programmers who have caught the scent of metaprogramming but for whom it is still mysterious will finally gain a clear understanding of how when and why it works All readers will leave with a new tool of unprecedented power at their disposal the Boost Metaprogramming Library Jacket Effective C++ Scott Meyers,2005 The book is organized around 55 specific guidelines each of which describes a way to write better C Each is backed by concrete examples Cover **Professional C++** Marc Gregoire,2014-09-09 This book is a practical code intensive guide for designing and building C applications fully updated for the C 14 release The lessons emphasize good programming styles and how to think in C to design effective solutions that maximize the language s capabilities The new C 14 information is highlighted for quick reference Learn by example working with challenging real world program segments available to download study detailed case examples with extensive working code tested on Windows and Linux discover the tips tricks and workarounds that lead to good programming style including best practices for debugging Publisher s description C++ Templates David Vandevoorde,Nicolai M. Josuttis,Douglas Gregor,2017-09-14 Templates are among the most powerful features of C but they remain misunderstood and underutilized even as the C language and development community have advanced In C Templates

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