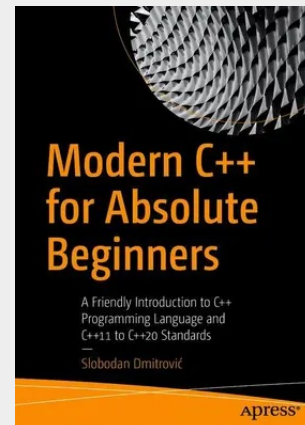


Modern C++ for Absolute Beginners

A Friendly Introduction to C++ Programming Language and C++11 to C++20 Standards

Learn the C++ programming language in a structured, straightforward, and friendly manner. This book teaches the basics of the modern C++ programming language, C++ Standard Library, and modern C++ standards. No previous programming experience is required. C++ is a language like no other, surprising in its complexity, yet wonderfully sleek and elegant in so many ways. It is also a language that cannot be learned by guessing, one that is easy to get wrong and challenging to get right. To overcome this, each section is filled with real-world examples that gradually increase in complexity. Modern C++ for Absolute Beginners teaches more than just programming in C++20. It provides a solid C++ foundation to build upon. The author takes you through the C++ programming language, the Standard Library, and the C++11 to C++20 standard basics. Each chapter is accompanied by the right amount of theory and plenty of source code examples. You will work with C++20 features and standards, yet you will also compare and take a look into previous versions of C++. You will do so with plenty of relevant source code examples. What You Will Learn - Work with the basics of C++: types, operators, variables, constants, expressions, references, functions, classes, I/O, smart pointers, polymorphism, and more - Set up the Visual Studio environment on Windows and GCC on Linux, where you can write your own code - Declare and define functions, classes, and objects, and organize code into namespaces - Discover object-oriented programming: classes and objects, encapsulation, inheritance, polymorphism, and more using the most advanced C++ features - Employ best practices in organizing source code and controlling program workflow - Get familiar with C++ language dos and don'ts, and more - Master the basics of lambdas, inheritance, polymorphism, smart pointers, templates, modules, contracts, concepts, and more Who This Book Is For Beginner or novice programmers who wish to learn C++ programming. No prior programming experience is required.

C++ is a language like no other, surprising in its complexity, yet wonderfully sleek and elegant in so many ways. It is also a language that cannot be learned by guessing, one that is easy to get wrong and challenging to get right. This book is an effort to introduce the reader to a C++ programming language in a structured, straightforward, and friendly manner. The book teaches the basics of the modern C++ programming language, C++ Standard Library, and modern C++ standards. No previous programming experience is required. Each section is filled with real-world examples that gradually increase in complexity. Modern C++ for Absolute Beginners teaches more than just programming in C++20. It provides a solid C++ foundation to build upon. The author takes you through the C++ programming language, the Standard Library, and the C++11 to C++20 standard basics. Each chapter is accompanied by the right amount of theory and plenty of source code examples. You will work with C++20 features and standards, yet you will also compare and take a look into previous versions of C++. You will do so with plenty of relevant source code examples. You will: -Work with the basics of C++: types, operators, variables, constants, expressions, references, functions, classes, I/O, smart pointers, polymorphism, and more -Set up the Visual Studio environment on Windows and GCC on Linux, where you can write your own code -Declare and define functions, classes, and objects, and organize code into namespaces -Discover object-oriented programming: classes and objects, encapsulation, inheritance, polymorphism, and more using the most advanced C++ features -Employ best practices in organizing source code and controlling program workflow -Get familiar with C++ language dos and don'ts, and more -Master the basics of lambdas, inheritance, polymorphism, smart pointers, templates, modules, contracts, concepts, and more



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