

# Introduction to Programming with C++

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INTRODUCTION TO  
PROGRAMMING  
WITH

The logo for C++ programming language, featuring a large blue 'C' followed by two blue '+' signs.

Third Edition

Contents are based on book by Y. Daniel Liang

# Chapter 1

- Programming Languages
- Machine Language
- Assembly Language
- High-Level Language
- Interpreter
- Compiler
- The object-oriented programming language
- Preprocessor directive
- The header file
- Pound sign
- Angle bracket

- Parenthese
- Slash
- Brace
- Asterisk

# Chapter 2

- Algorithm
- Pseudocode
- Prompt
- The integer data type
- The floating-point data type
- Assignment statements
- Assignment expressions
- Numeric literals
- Numeric operators
- Exponent operations

- Augmented assignment operators
- Increment and Decrement Operators
- Prefix and postfix
- Numeric Type Conversions

# Chapter 3

- The bool Data Type
- logical negation
- logical conjunction
- logical disjunction
- The switch statement
- The conditional expressions
- Operator Precedence

# Chapter 4

- The character data type
- The character literal
- The string literal
- ASCII Code
- Stream manipulator

# Chapter 5

- Loop



# Chapter 9

- instance
- constructor
- Binary scope resolution operator
- Data Field Encapsulation
- class encapsulation

# Chapter 10

- defensive programming