

华夏中文学校 C++ level 1 Syllabus (Instructor : 王黔江)

Software Installation

- G++ Compiler
- MinGW
- VS Code IDE
- GIT

Basic of C++

- Structure of a Program
- Variables, Data Types
- Constants
- Operators
- Basic Input/Output
- Compile and Running Program
- Debug Program

Control Structures

- Control Structures
- Functions

Compound Data Types

- Arrays
- Character Sequences
- Pointers
- Dynamic Memory
- Data Structures
- Other Data Types

Object Oriented Programming

- Classes
- Friendship and Inheritance
- Polymorphism

Advanced Concepts

- Templates
- Namespaces
- Exceptions
- Type Casting

- Preprocessor Directives

C++ Standard Library

- Input/Output with Files