C++ from Scratch
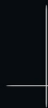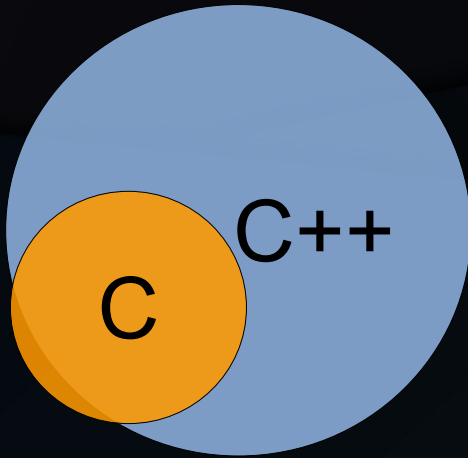
C++ from Scratch

- C is a subset of C++

- To understand C++ you must understand C

- Nearly every C program is also a C++ program

C++ from Scratch

Dividing this series in C and C++ has the following three advanteges:

1. The border between C++ and C is clear

2. C developers can jump ahead to C++

3. Introduction of concepts in C++ are easier since C basics are covered

C++ from Scratch

- To be a first class C++ developer you need to know where C ends and C++ starts

- C++ developers are often required to write or maintain code in C especially in the embedded systems world

C++ from Scratch

Part I
1. Overview of C
2. Expressions
3. Instructions
4. Arrays
5. Pointers
6. Functions
7. Structures, Unions and Enumerations
8. Console I/O in C style
9. File I/O in C style
10. Preprocessor and Comments

Part II
1. Overview of C++
2. Classes and Objects
3. Arrays, Pointers and References
4. Function Overloading
5. Operator Overloading
6. Inheritance
7. Virtual functions and Polymorphism
8. Templates
9. Exception Handling
10. Console I/O in C++ style
11. File I/O in C++ style
12. Run-Time-Type-ID and Cast Operators
13. Namespaces and Conversion Functions
14. Standard-Template-Library (STL)

C++ from Scratch

- Github: https://github.com/vkresch/cppfromscratch

- OS: Ubuntu 20.04

- IDE: Visual Studio Code