



C / C++

The Programming Language

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Outline of the talk

- What are C and C++?
- Similarities between C and C++
- Differences between C and C++
- Why did I choose C++?
- Conclusions



What are C and C++?

- All we know it ...
- C: Natural language to build applications in Unix
- C++: Natural language to build OOP applications
- Fast, flexible, modifiable, ...



Similarities between C and C++

- C++ conceived from C
- Control structures similar
- High-level languages
- Reusable code → libraries
- Both have well defined standards

C++	ISO/IEC 14882:1998 Information technology - programming language C++
C	ISO/IEC 9899:1990



Differences between C and C++

- C has grammar structures which **DO NOT** compile with C++ compilers
- C++ has grammar structures which **DO NOT** compile with C compilers
- C :: procedure-oriented language: data \rightarrow procedures
- C++ :: object-oriented language data + procedures \equiv class
- C++ has Polymorphism
- C++ has Inheritance



Why did I choose C++?

- C++ is object-oriented language (**classes**)
- C++ has Polymorphism
- C++ has Inheritance