Object-Oriented Programming

History of C++

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History of C

● Evolved from
  – BCPL (1967) and B (“Typeless” languages)

● Dennis Ritchie (Bell Laboratories)
  – Added data typing, other features (1972)

● Development language of UNIX

● Hardware independent (Portable programs)

● 1978: K&R C Book (Traditional C)

● 1989: ANSI standard

● 1990: ANSI and ISO standard published
History of C++

- Extension of C
- Early 1980s: Bjarne Stroustrup (Bell Lab)
- Support OOP
  - Objects: reusable software components
    - Model items in real world
  - Object-oriented programs
    - Easy to understand, correct and modify
- Hybrid language
  - C-like style
  - Object-oriented style
- ANSI/ISO 1998
  - C++ standard library (classes and functions)
High-level Languages

- **FORTRAN** (Formula Translator; 1954-1957: IBM)
- **COBOL** (1959: Common Business Oriented Language)
- **BASIC** (1960: Beginner’s All-Purpose Symbolic Instruction Code)
- **Pascal** (1971: Prof. Niklaus Wirth - Academic use)
- **C** (1972: Dennis Ritchie, Bell Lab)
- **C++** (Early 1980s: Bjarne Stroustrup, Bell Lab)
- **Java**
  - 1991: Sun Microsystems (Green project)
  - 1995: Sun Microsystems (Formally announced)
- **VB** (1991: Result of Microsoft Windows GUI)
- **C#** (Roots in C, C++ and Java)