History of C/C++

CSIE Department, NTUT

Woei-Kae Chen
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)