

Introduction to C

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Ken Thompson



Dennis Ritchie

BCPL(1960s)

B

NB(1971)

C (1973)



C的标准化历程

K&R C

Described in Kernighan and Ritchie, *The C Programming Language* (1978)

De facto standard

C89/C90

ANSI standard X3.159-1989 (completed in 1988; formally approved in December 1989)

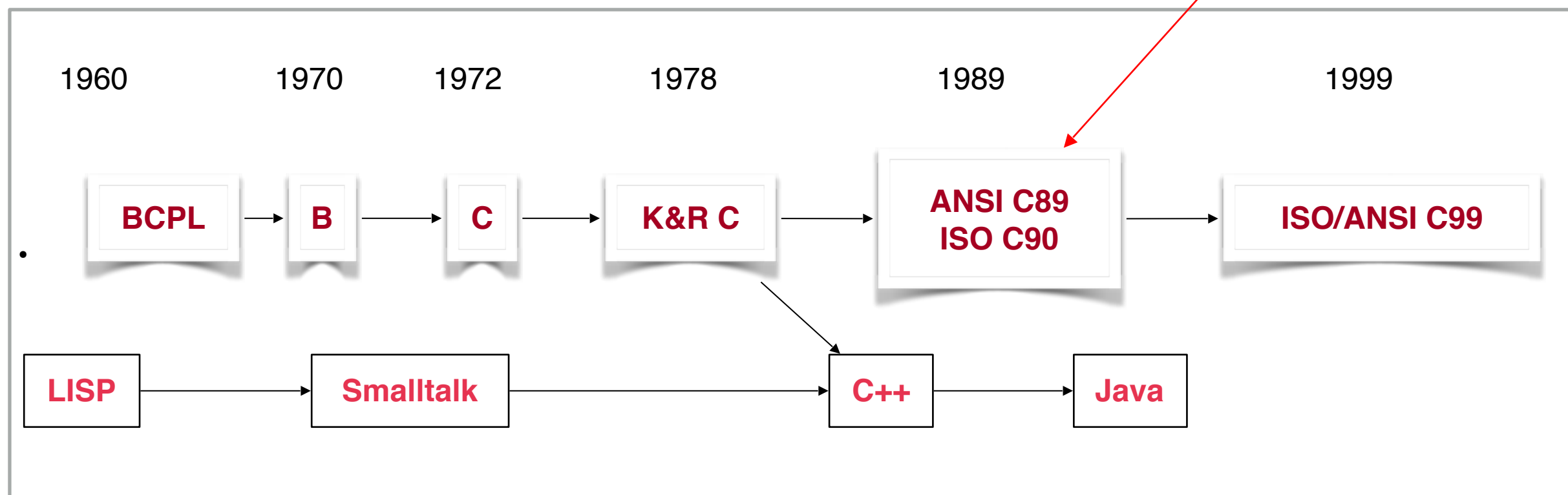
International standard ISO/IEC 9899:1990

C99

International standard ISO/IEC 9899:1999

Incorporates changes from Amendment 1 (1995)

课程教学使用



C语言之后...

C++

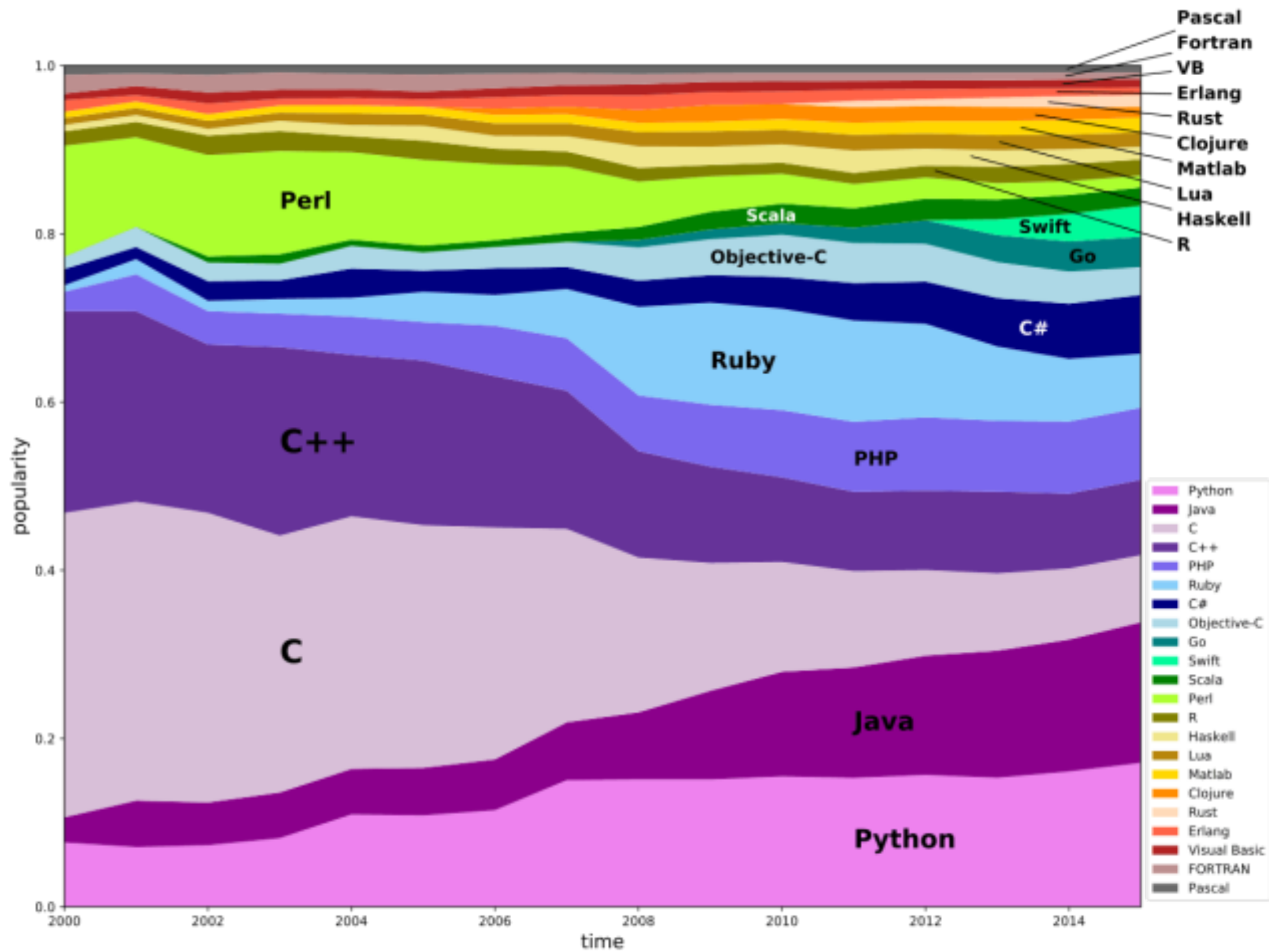
Java

Objective-C

C#

Perl

...



C语言的特点

- 小巧
- 低级
- 纵容

C语言的优势

Efficiency
Portability
Power
Flexibility
Standard library
Integration with UNIX



课程目标

- 书写模块化代码
- 书写可移植的代码
- 测试与调试程序
- 优化程序性能
- 使用工具来完成达成上述目标

“

Programming is 10% science, 20% ingenuity,
and 70% getting the ingenuity to work with the
science.

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