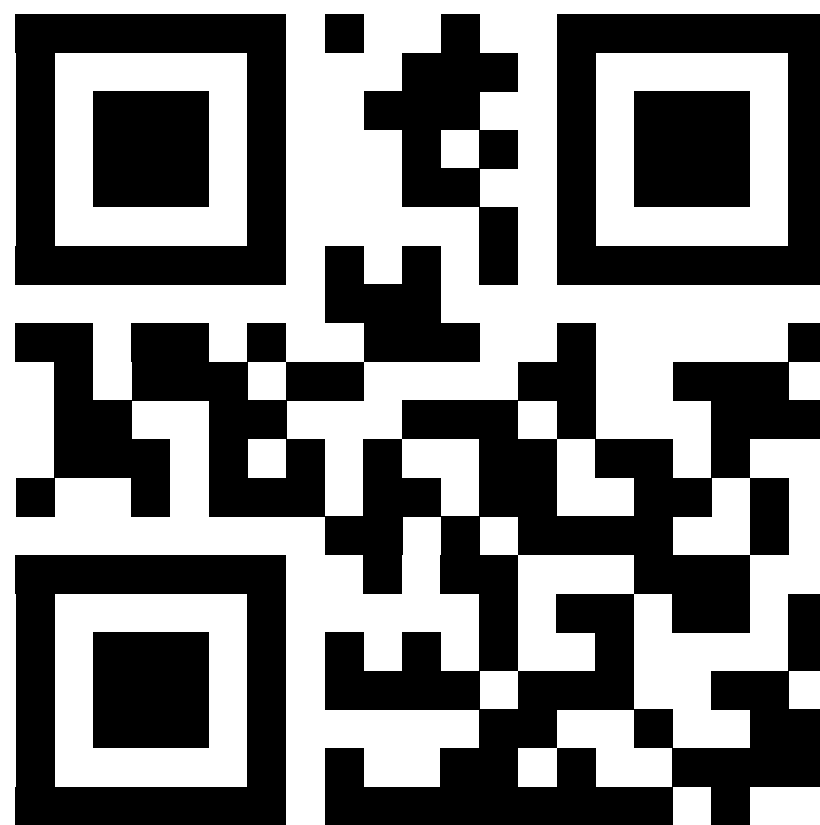


# Introduction to C

[huiw@suda.edu.cn](mailto:huiw@suda.edu.cn)



**huiw@suda.edu.cn**



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)

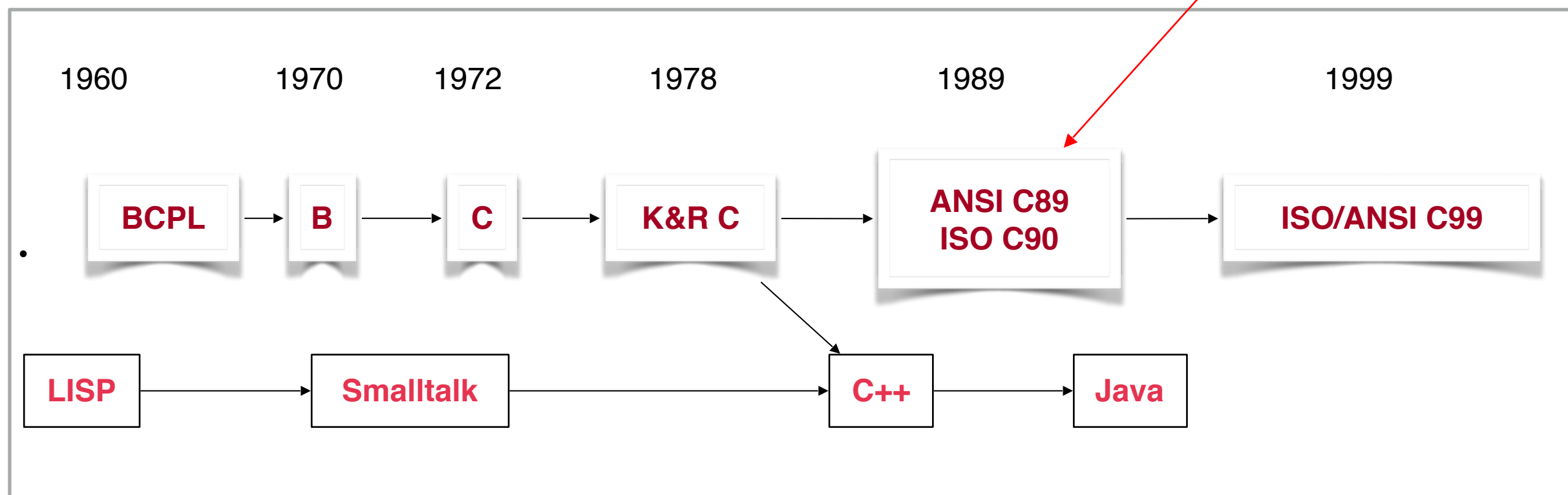
International standard ISO/IEC 9899:1990

## ***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

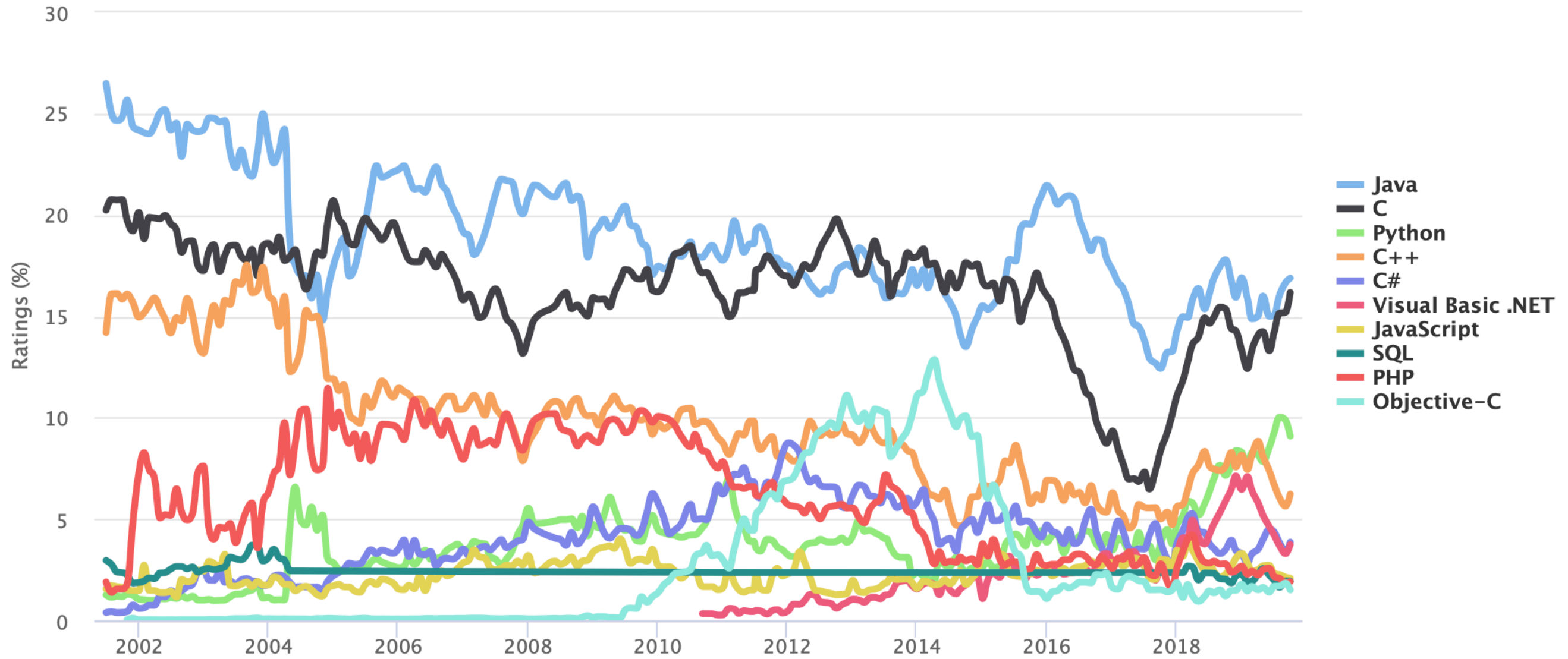
C#

Perl

...

# TIOBE Programming Community Index

Source: [www.tiobe.com](http://www.tiobe.com)



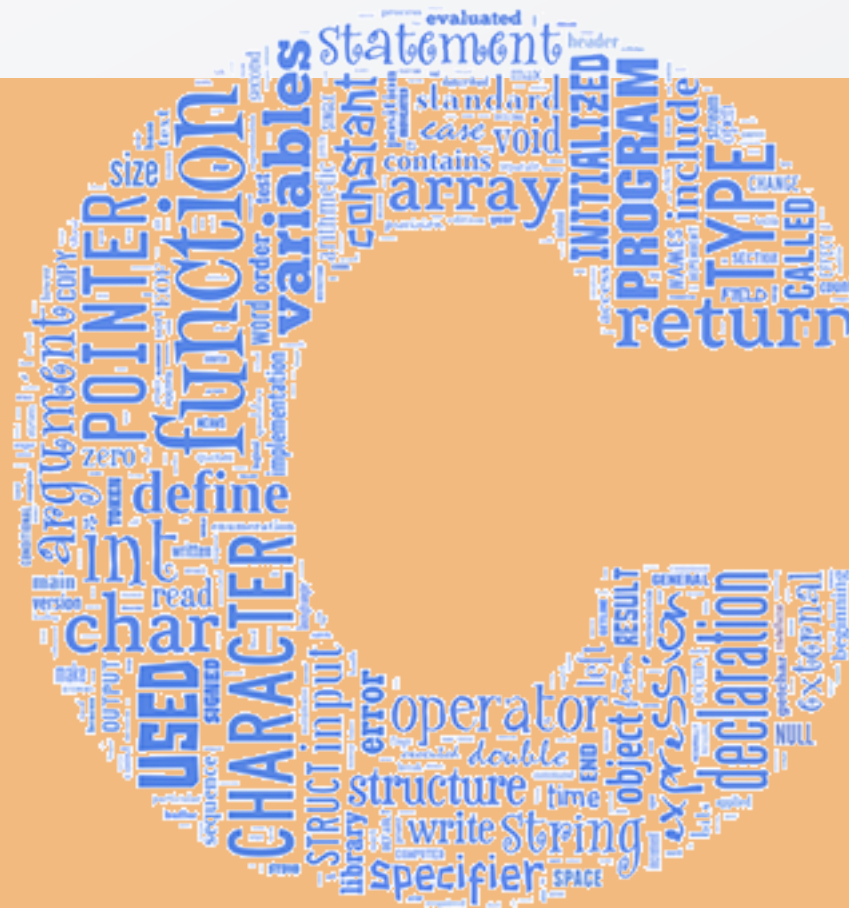
# C语言的特点

- 小巧
- 低级
- 自由



# 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.

”