合肥学院
HEFEI UNIVERSITY

IAO

# OOP with Java
## 1. Introduction

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合肥学院 南艳湖校区/南2区
计算机科学与技术系
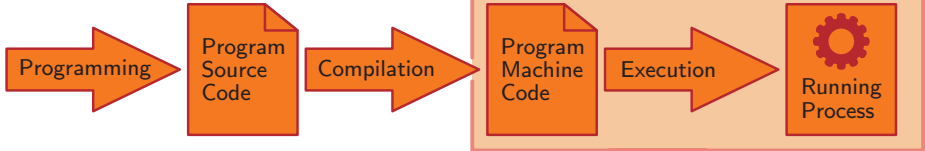应用优化研究所
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website

- Programming in machine-code compiled language like C

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  3. execute program: program loaded into memory and machine code is executed by CPU

# Programming

**Programming in compiled language like C**



Programming → Program Source Code → Compilation → **Machine-Specific**: Program Machine Code → Execution → Running Process

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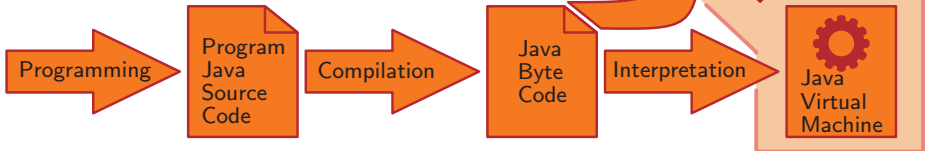    2. compile program code to standardized machine code, obtain executable

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**Programming in compiled language like C**

Machine-Specific

Programming → Program Source Code → Compilation → Program Machine Code → Execution → Running Process

JIT Compilation

Execution

**Programming in interpreted language on example Java**

Programming → Program Java Source Code → Compilation → Java Byte Code → Interpretation → Java Virtual Machine

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- Goal of Java: Write once, run anywhere $\Longrightarrow$ reduce developer effort

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- We want to do this better. . .

1. We have learned about the technical process of programming, compiling, and executing.
2. We have learned how things are a bit different if an interpreted language is used.
3. We have thought about that just programming itself is enough for hobby, but not for productive use in a team.

谢谢

# Thank you

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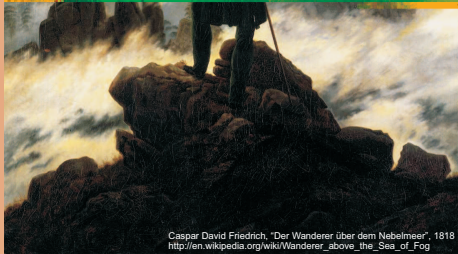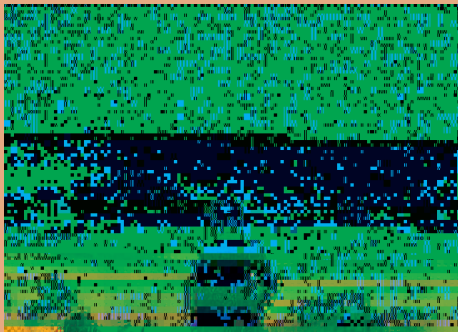
Caspar David Friedrich, "Der Wanderer über dem Nebelmeer", 1818
http://en.wikipedia.org/wiki/Wanderer_above_the_Sea_of_Fog