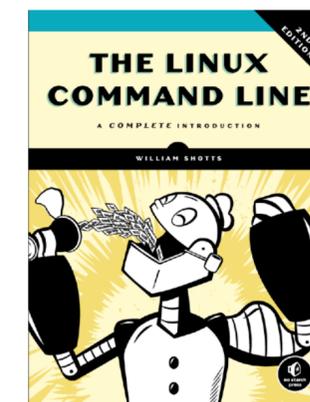
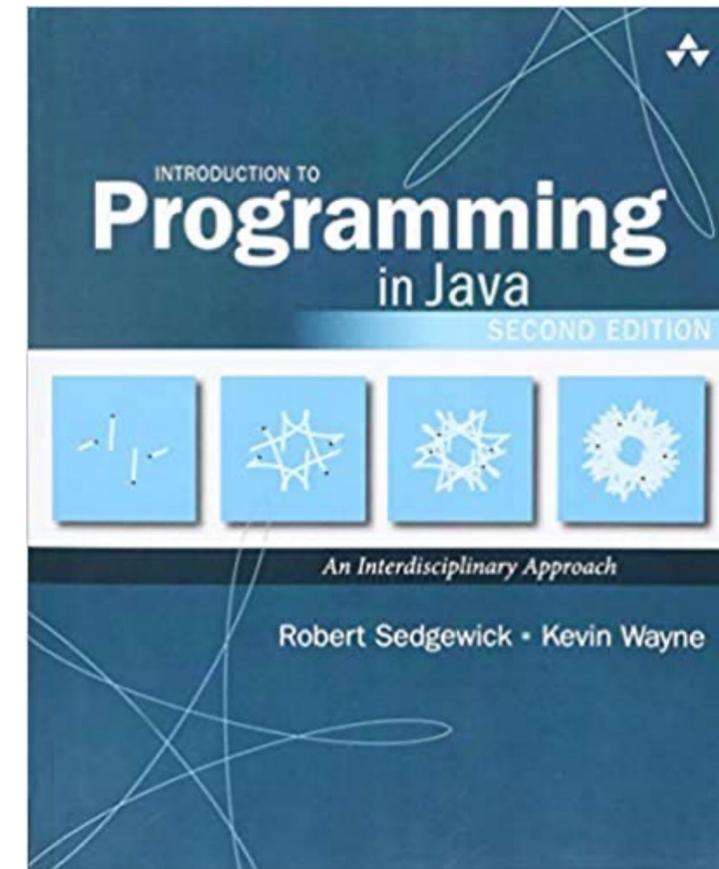


Computer Science 1

CS113

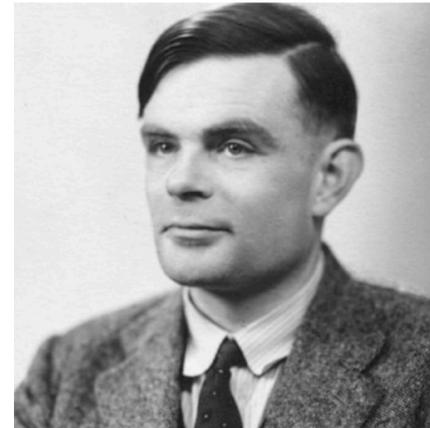
Things to Know

- Textbook
 - Introduction to Programming in Java
 - by Sedgewick & Wayne
- Also
 - The Linux Command Line
 - by Schotts
 - Not explicitly used but a really handy reference
 - Free!



Computer Science 1

- Why?



- Why not just "Intro to Programming"?



Class WebSite

<https://cs.brynmawr.edu/cs113gt>

- Will have all homework, important dates, etc
- Lecture notes — I will usually post slides so if you want to take notes directly on what you are seeing, you can
- Tests — 2 midterms and a final. All will be open book, open notes, open computer, closed mouth.
 - midterms will be “take where you want, but on a given date”
 - final — similar idea.
- Homeworks — approximately weekly
- Lab — Every Tuesday
- Class participation
 - Ask questions, even “I do not understand”
 - I will try to get you up from the desks to do something in every class. Lots of chalkboards

Lab

- If you have timing issues, not a problem to leave somewhat early; but you are expected to come.
- Formally, labs are not due until midnight of the lab date.
 - Think of lab as
 - an office hour in which I am sitting in 231
 - I have given you a task and you should work on that task for 80 minutes

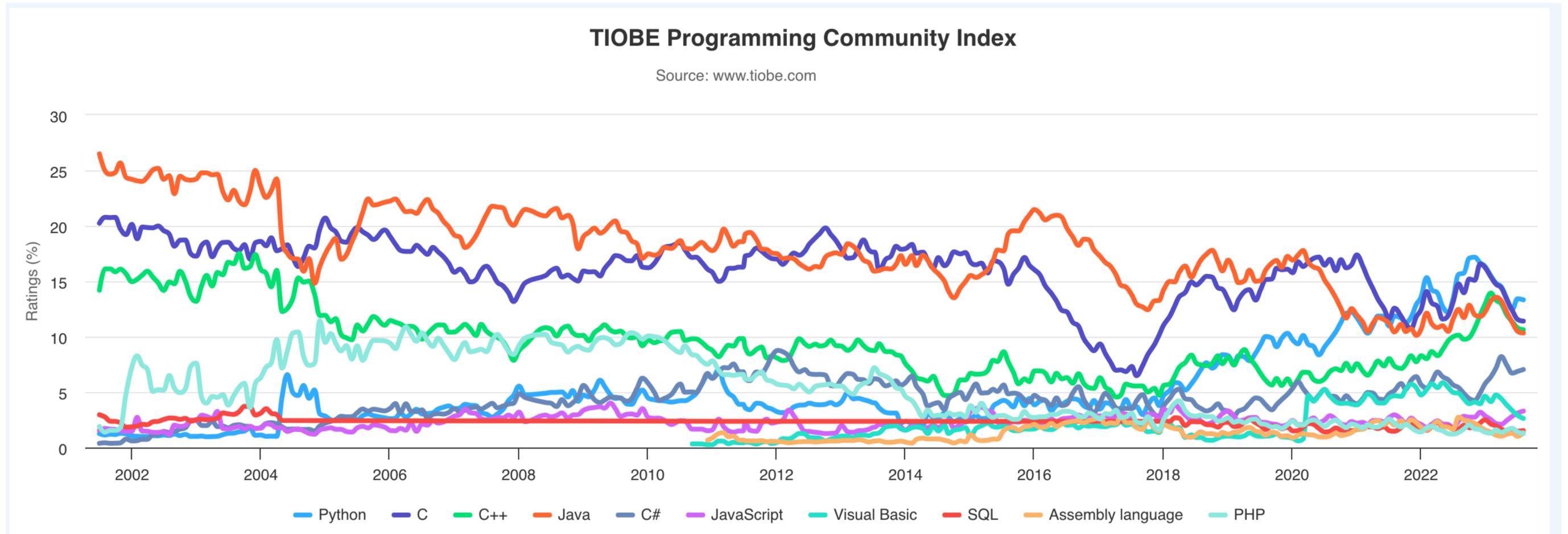
Goals

- Write Programs
- Think Algorithmically
- Understand the science of "computer science"
- Learn more about using a computer
- Programming in Java

Java

Why is Java the first language taught at BM

- large, well-organized libraries
- clean, consistent syntax
- Widely used



SERIOUSLY? THIS
THING RUNS *JAVA*?
IT'S SINGLE-PURPOSE
HARDWARE!



I BET THEY ACTUALLY HIRED SOMEONE
TO SPEND SIX MONTHS PORTING THIS
JVM SO THEY COULD WRITE THEIR 20
LINES OF CODE IN A FAMILIAR SETTING.



WELL, YOU KNOW WHAT THEY SAY—
WHEN ALL YOU HAVE IS A PAIR OF
BOLT CUTTERS AND A BOTTLE OF VODKA,
EVERYTHING LOOKS LIKE THE LOCK ON
THE DOOR OF WOLF BLITZER'S BOATHOUSE.



Other Programming Languages

Compiled

Suppose program file: xxx.lang

To Run

yyy xxx.lang

compiler translates to machine code, creates xxx

xxx

run on machine

Comments

xxx only runs on that machine type

xxx cannot be de-compiled to xxx.lang

fastest

Byte Compiled

Suppose program file: xxx.lang

To Run

yyyc xxx.lang

compiler translates to byte code, creates xxx.BYTE

yyy xxx

run on machine

Comments

xxx only runs on any machines that has yyy

xxx can be de-compiled to xxx.lang

often very hard

Almost as fast as compiled

Interpreted

Suppose program file: xxx.lang

To Run

yyy xxx.lang

run inside interpreter

Comments

xxx.lang only runs on any machines that has yyy

xxx.lang is your source code

SLOW