

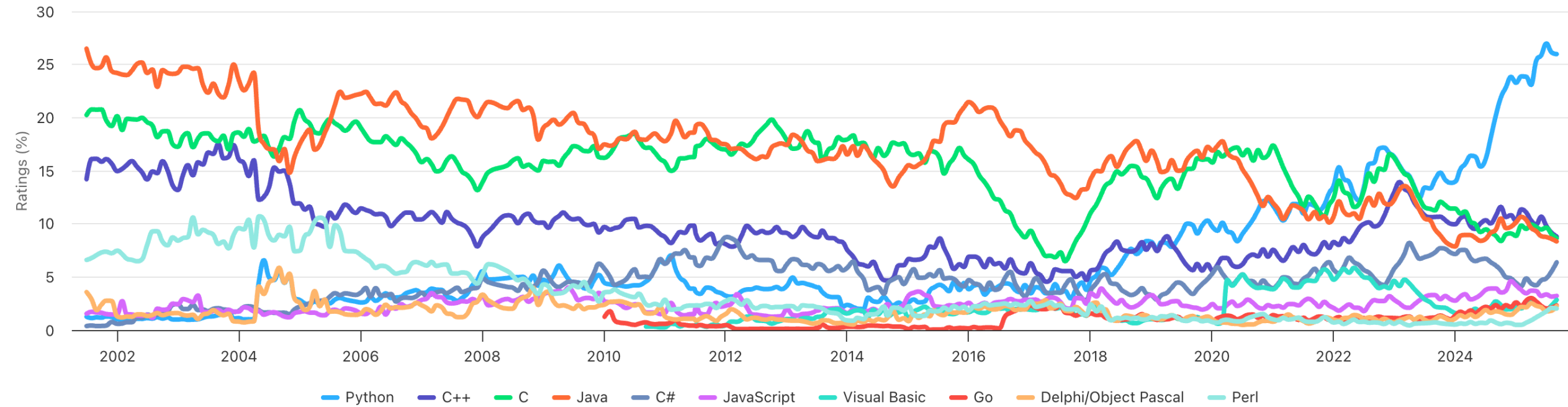
Java Enterprise Application Development

Lecture 1 Introduction to Java

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Popularity of Java

- More than 17 million developers
- TIOBE programming community index (September 2025)



Brief History

- James Gosling, Mike Sheridan, and Patrick Naughton initiated the project in June 1991
- Initially called Oak after an oak tree that stood outside Gosling's office
- Finally renamed Java, from Java coffee
- Designed with a C/C++-style syntax
- Java 1.0 released by Sun in 1996
 - “Write Once, Run Anywhere” (WORA)
- Soon incorporated by major web browsers

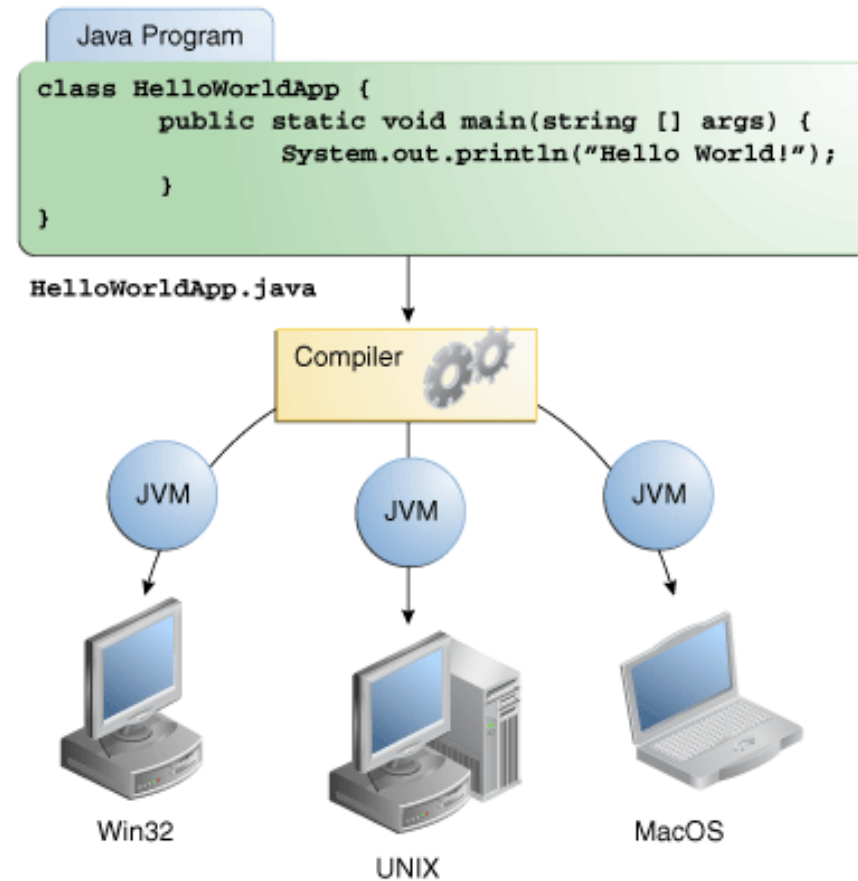
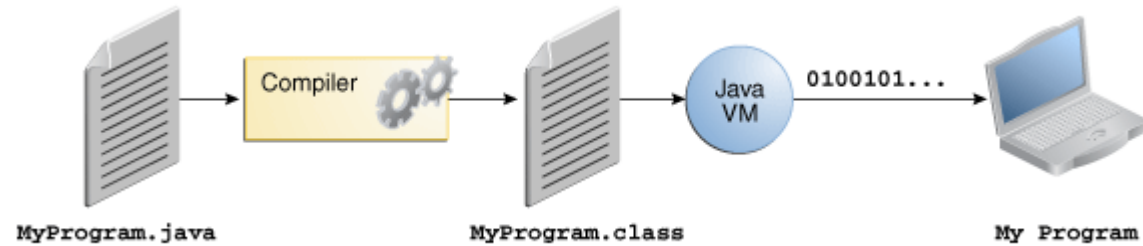


Brief History (cont.)

- Java 2 (initially released in 1998/1999)
 - Multiple configurations for different types of platforms
 - J2SE, desktop version
 - J2EE, for enterprise applications
 - J2ME, optimized for mobile applications
- Renamed as Java SE/Java EE/Java ME in 2006
- Latest version: JDK 24 (latest), JDK 21 (latest LTS)

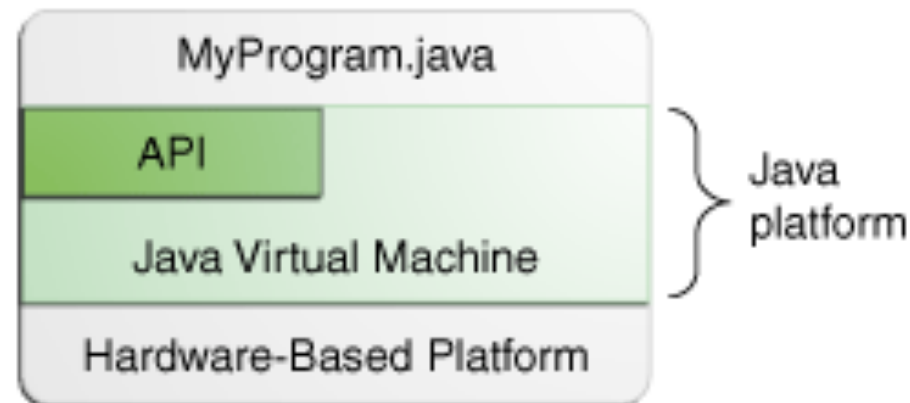
The Java Programming Language

- Characteristics
 - Simple
 - Object oriented
 - Distributed
 - Multithreaded
 - Dynamic
 - Architecture neutral
 - Portable
 - High performance
 - Robust
 - Secure



The Java Platform

- A software-only platform that runs on top of other hardware-based platforms
- Two components
 - Java Virtual Machine (JVM)
 - Java Application Programming Interface (API)



Java Platforms

- Java SE (Standard Edition)
 - For general-purpose use on desktop PCs, servers and similar devices
- Java EE (Enterprise Edition)
 - Extending Java SE, useful for multi-tier client-server enterprise applications
- Java ME (Micro Edition)
 - Specifies several different sets of libraries (known as profiles) for devices with limited storage, display, and power capacities