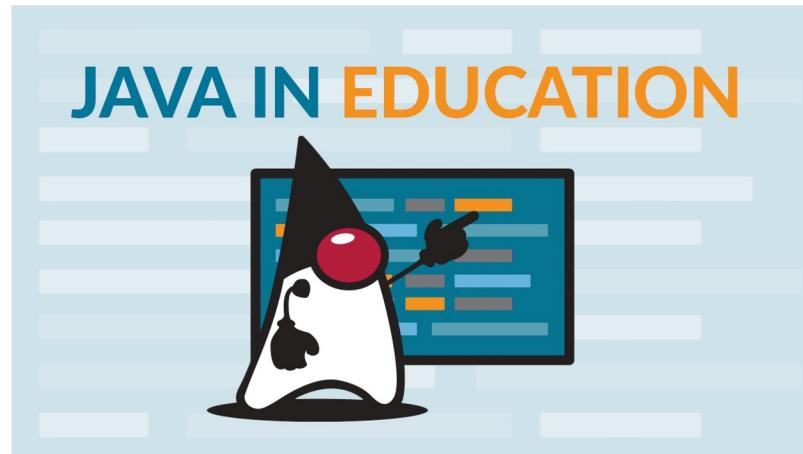
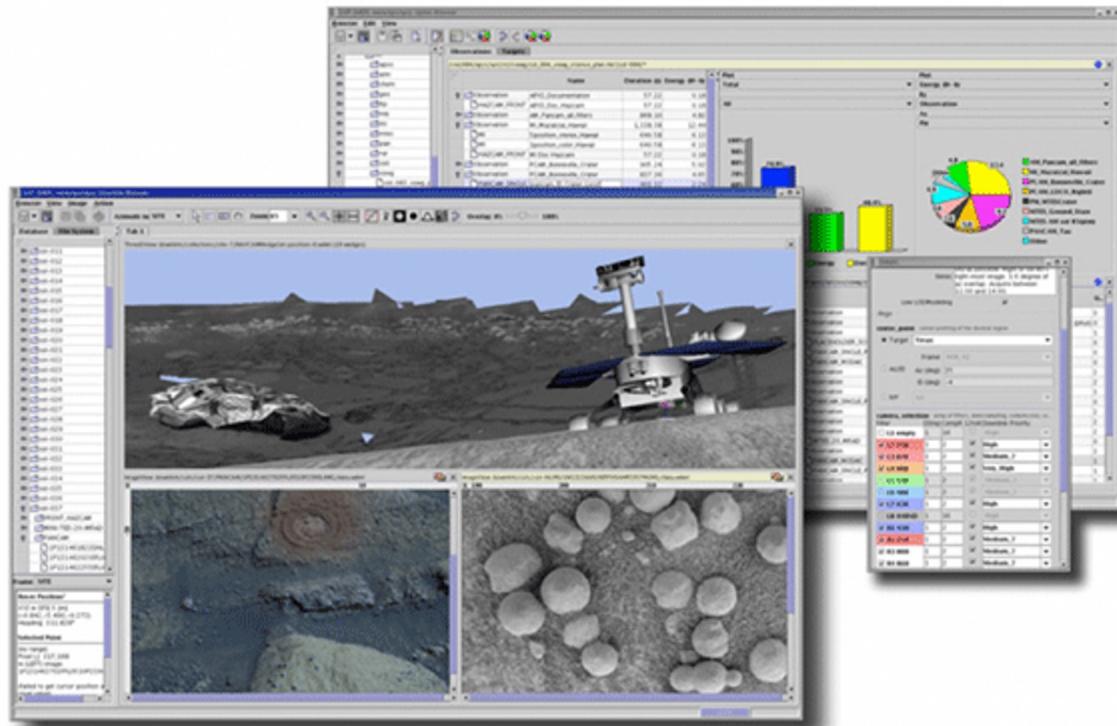


What is Java & Why Should You Learn It?

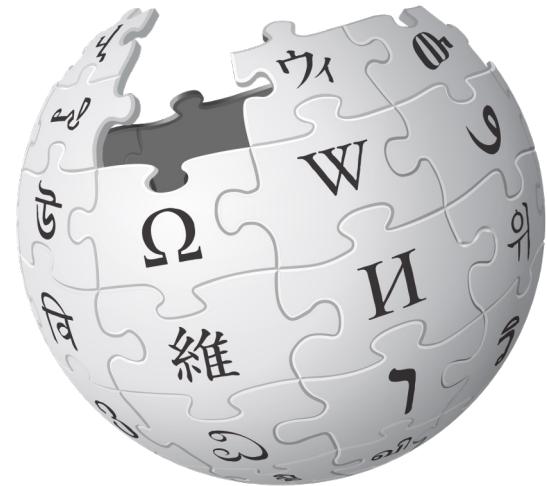
Heather VanCura



Where is Java used?



Where is Java used?



WIKIPEDIA
The Free Encyclopedia

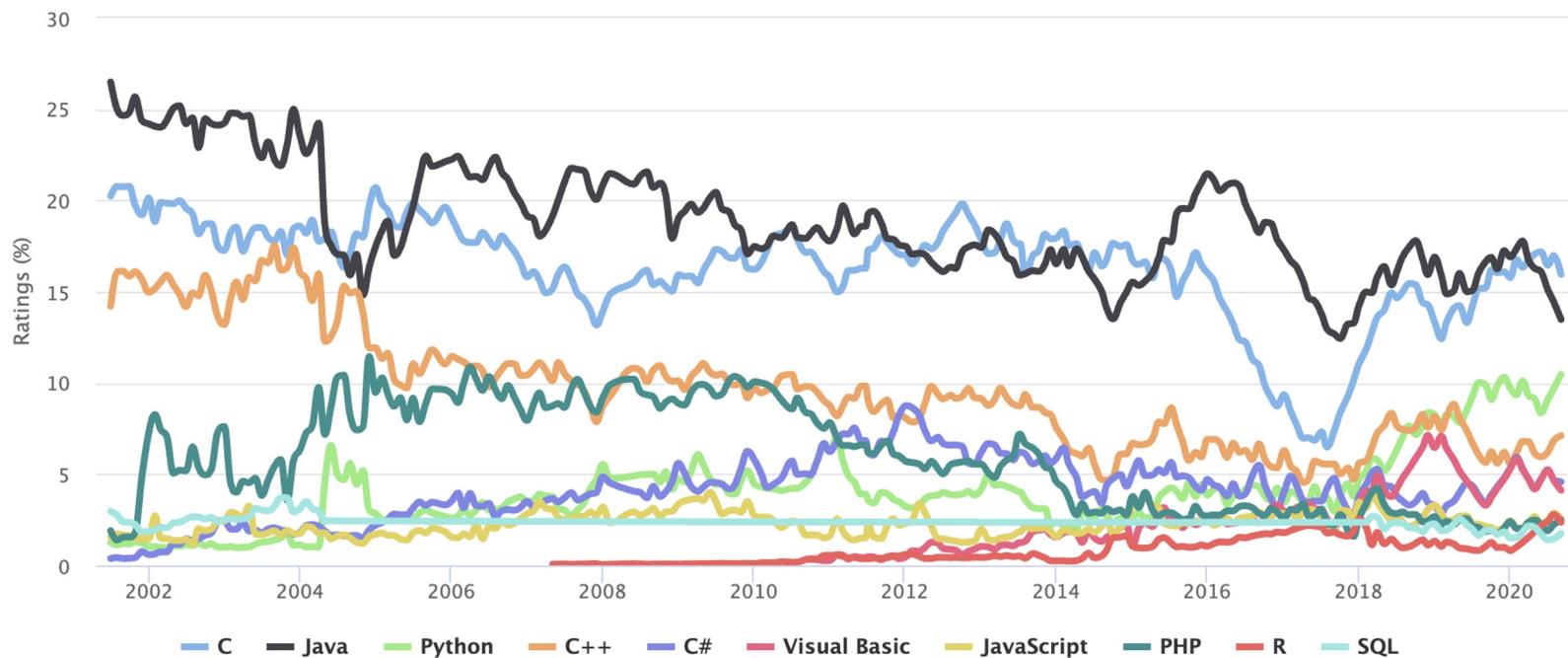
Where is Java used?



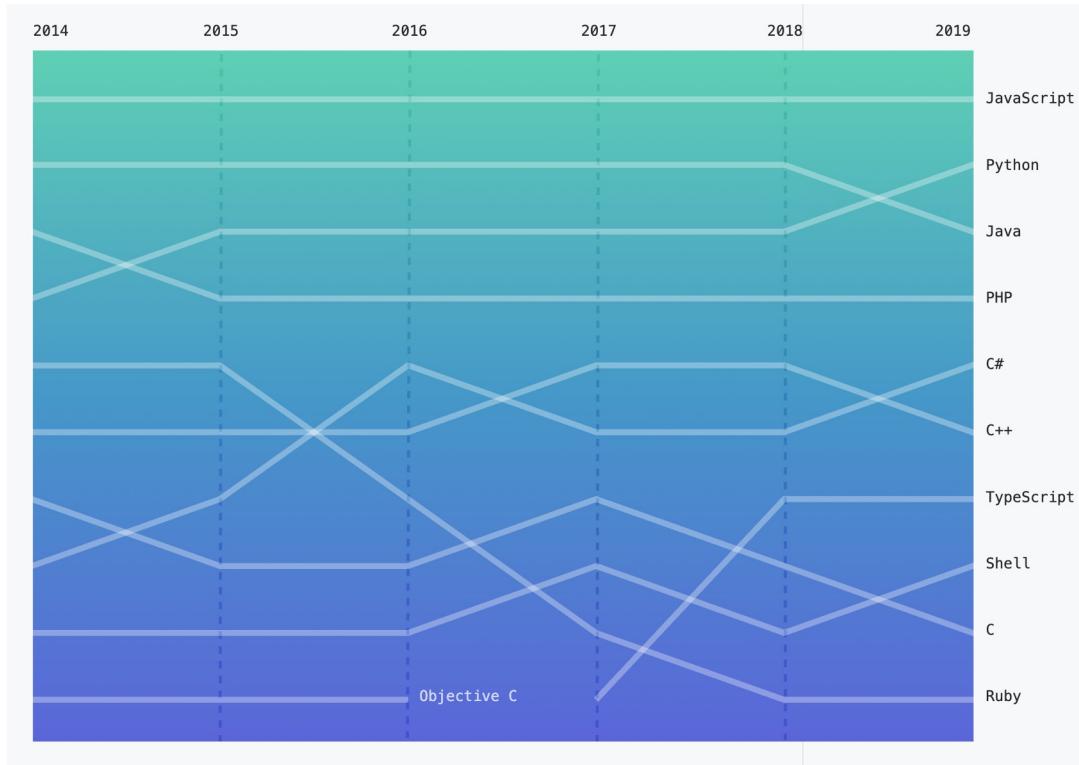
Popularity of programming languages

TIOBE Programming Community Index

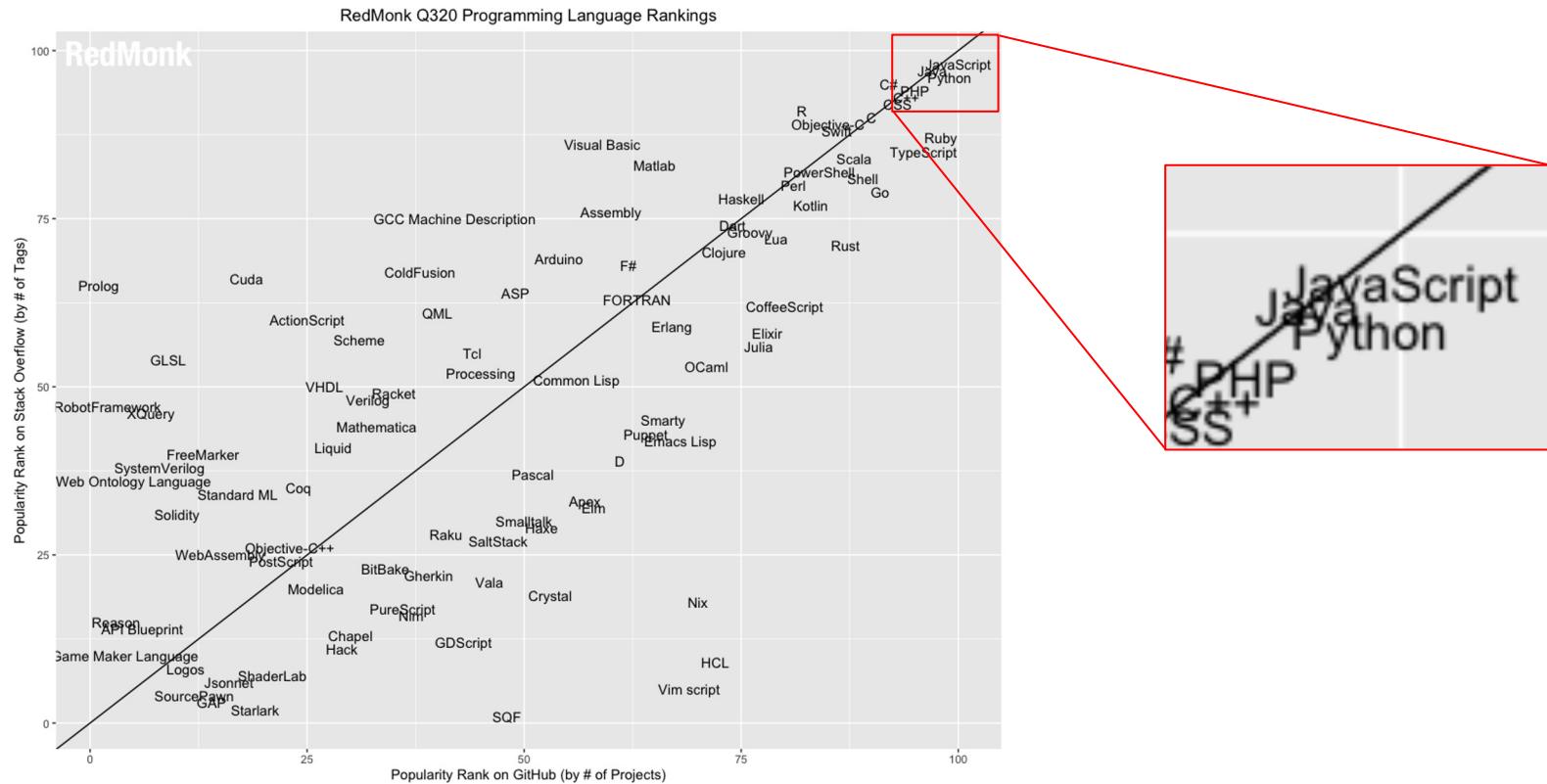
Source: www.tiobe.com



Language usage around the world



Insight into potential future trends



Java everywhere!



#1
Programming
Language



12+ Million
Developers
Run Java



51 Billion
Active
Virtual Machines

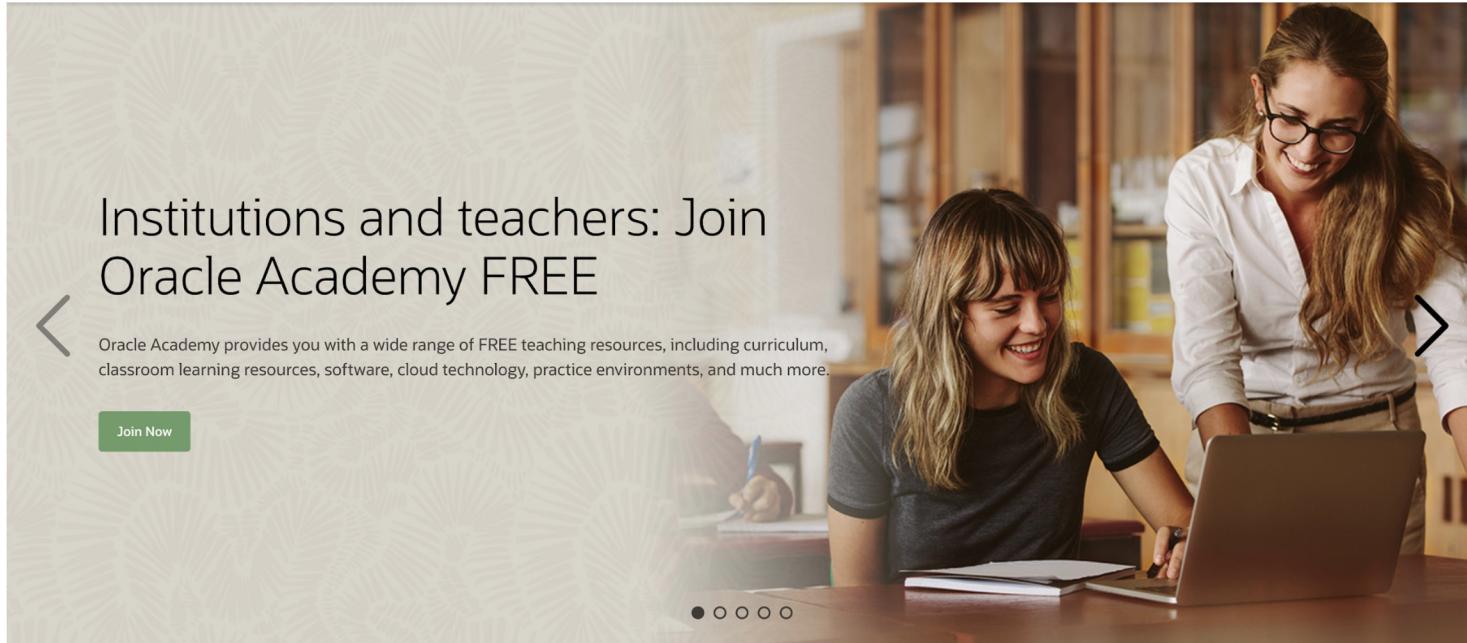


30 Billion
Cloud Connected
Virtual Machines

Which company uses Java?



How to get started with Java?

A photograph showing two women in an office environment. One woman is seated at a desk, looking at a laptop screen and smiling. The other woman is standing behind her, also smiling and looking at the laptop. They appear to be working together on a project. The background shows office shelves and a window.

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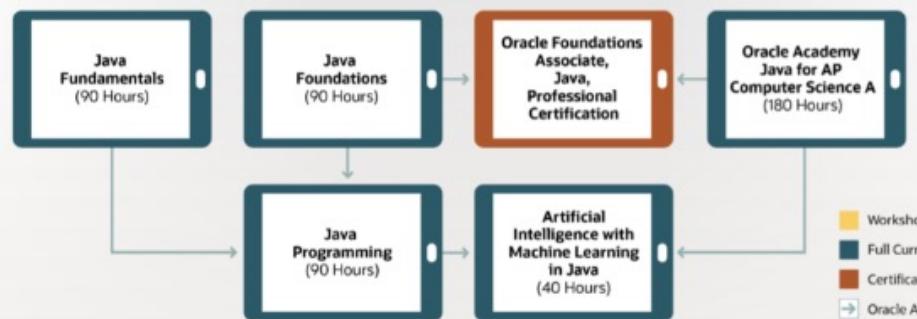
Oracle's philanthropic educational program

Free teaching and learning resources

Java pathway



Full Curriculum Starting Point



Workshop in a box

Java Workshops

Java workshops introduce beginning learners to object-oriented programming using game-based learning methodology, drag and drop interfaces to create 3D animations and 2D games, and interactions with the Finch Robot.

- **Getting Started with Java Using Alice** is designed for students with little or no programming experience and teaches basic Java programming concepts through developing 3-D animations in Alice 3.1. **8 Hours**
- **Creating Java Programs with Greenfoot** engages students who understand basic programming concepts to create 2-D games using Java. **16 Hours**
- **Java Puzzle Ball** uses a game-based learning methodology to build an understanding of complex key Java programming concepts. **12 Hours**
- **Programming the Finch Robot in Greenfoot** encourages students who have completed Creating Java Programs with Greenfoot to program an interface that makes the Finch Robot interactive using its light, proximity, and temperature sensors using Java in Greenfoot. **4 Hours**
- **Programming the Finch Robot in Java** encourages students who have completed the Creating Java Programs with Greenfoot and Programming the Finch Robot in Greenfoot to program an interface that makes the Finch Robot interactive using its light, proximity, and temperature sensors using Java. **4 Hours**



<https://academy.oracle.com/en/training-workshops.html>

Java Explorer from Oracle University - free training

The screenshot shows a web browser displaying a learning path titled "Java Explorer" from Oracle University. The URL in the address bar is learn.oracle.com/ols/learning-path/java-explorer/40805/79726. The page header includes the Oracle logo and navigation links for "Back", "Courses", "Live Sessions", and "Programs". The main content area features a dark background with a geometric pattern. The title "Java Explorer" is prominently displayed. Below the title, a "NEW!" badge indicates the addition of Java programming basics. A descriptive text block explains the path covers Java basics like variables, classes, objects, loops, arrays, and decisions, and how to use NetBeans IDE. It also mentions earning a badge. A section titled "This learning path provides an introduction to Java for:" lists target audiences: Developers, Designers, Administrators, and Architects, and Support and QA Engineers. Another section, "This learning path covers:", lists topics: An Overview of Java, Text and Numbers in Java, Arrays, Conditions, and Loops, Classes and Objects, Exception Handling, Inheritance and Interfaces, and Java on OCI.

learn.oracle.com/ols/learning-path/java-explorer/40805/79726

Java Training & Certifications

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Oracle Java SE Certification Paths

Oracle Certified Professional: Java SE 17 Developer



[Overview](#) [Path Steps](#) [Resources](#)

Certification Paths
Categories <ul style="list-style-type: none"> Software Systems Industry Applications Applications Middleware Operations

Oracle Certified Professional: Java SE 17 Developer Certification Overview

An Oracle Certified Professional: Java SE 17 Developer has demonstrated proficiency in Java (Standard Edition) software development, recognized by a wide range of world-wide industries. They have also exhibited thorough and broad knowledge of the Java programming language, coding practices, and utilization of new features incorporated into Java SE 17. By passing the required exam, certified individual proves tremendous fluency in Java SE and the acquisition of the valuable professional skills required to be a Java software developer.

JUGs around the World - Driving Adoption



ORACLE®

Next steps

Educators/Community Leaders

1. Sign up as an Institutional Member of Oracle Academy to access Java resources including workshop in a box resources or full curriculum to utilize in the classroom to teach students.
2. If you work at an educational institution? Check to see if your institution is already a member.
3. JUG Leaders: Learn more by visiting the Oracle Academy website or contacting the Oracle Academy team; sign up as an Individual to teach a Workshop in a Box.

Students

1. Take free Oracle University Java Explorer course.
2. Contact your local Java User Group (JUG).
3. Attend meetup and introduce yourself.
4. Ask for suggestions and recommendations for the JUG on the discussion list.
5. Offer to provide feedback and suggestions on your experience with (learning) Java.

Resources

Bring Java to next generation of developers:

<https://jcp.org/java-in-education> (join the groups.io list here)

- How Java is used in Industry (hear from JCP Members)
- How to host a discussion with your community members about getting involved with the initiative

<https://github.com/jcp-org/Java-in-Education/wiki/Java-in-Education---Wiki-Page>