

Hello Future AP CS A JAVA students,

Java is a programming language and computing platform first released by Sun Microsystems in 1995. It has evolved from humble beginnings to power a large share of today's digital world, by providing the reliable platform upon which many services and applications are built. New, innovative products and digital services designed for the future continue to rely on Java, as well.

Java is a general-purpose, class-based, object-oriented programming language designed for having lesser implementation dependencies. It is a computing platform for application development - Java is fast, secure, and reliable. Therefore, Java is widely used for developing applications in laptops, data centers, game consoles, scientific supercomputers, cell phones, and many other applications.

Learning Java programming is beneficial because:

1. Popularity and Versatility: Java is widely used in enterprise environments and Android app development, making it relevant for many jobs.
2. Object-Oriented: It teaches foundational concepts like object-oriented programming, which are applicable across many other languages.
3. Rich API: Java offers a vast standard library and integrates well with various systems, easing complex tasks.
4. Platform Independence: Java programs can run on any device that supports the Java Virtual Machine (JVM), enhancing its utility across platforms.
5. Community and Resources: A large community and abundant resources aid learning and problem-solving.





Java developers make great money!


According to [Payscale.com](https://www.payscale.com), the median entry-level salary for Java developers is about \$67,000 USD. With a few years of experience, Java developers can expect to meet and exceed \$100,000 USD per year. While salaries vary by company and location, Java salaries are consistently competitive with other common language developer salaries.

What is Java used for?

It is used for developing Android Apps Helps you to create Enterprise Software Wide range of Mobile java Applications	Scientific Computing Applications Use for Big Data Analytics Java Programming of Hardware devices
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2024 Summer Assignment for AP CS A:

Join our 2024 AP CS A Google Classroom for information updates	Code: fnr52ov https://classroom.google.com/c/Njc3NjI4OTUxNjE0?cjc=fnr52ov
Read the introductory article on JAVA 5-10 minutes	Link: https://www.devopsschool.com/blog/what-is-java-and-how-it-works-an-overview-and-its-use-cases/
Watch 5 minute Video on What is Java? 5 minutes	Link: https://www.youtube.com/watch?v=mAtkPQO1FcA
Read Chapter One in the “Starting out with JAVA” reference textbook. 20 minutes	Page 1 to 21 In google classroom, click on the classwork tab, and you will find the textbook link under course materials.
<p>Try some JAVA programming in Code Academy. The complete “Learn JAVA” course covers about 20 hours of introductory materials that you are welcome to work through. We will spend next year learning the JAVA programming language. At a minimum, please complete these two short courses on Java and Object oriented programming found in CodeAcademy - Catalog - Java. See directions below to access CodeAcademy through our Clever portal. You will get a certificate of completion for these modules as PDFs, and you will submit them in google classroom.</p> <p>These two modules should take about 8-10 hours to complete.</p>	
 <p>Free course completed!</p> <p>Intro to Java</p> <p>Get started with Java by learning about the basics of a Java program and variables!</p> <p> Beginner Friendly 6 hours</p>	 <p>Free course completed!</p> <p>Learn Java: Object-Oriented Programming</p> <p>Explore classes and objects in this introduction to object-oriented programming with Java.</p> <p> Beginner Friendly 3 hours</p>

<p>Instructions for Code Academy Access Using Clever</p> <p>These instructions are for students who were in CS or Engineering classes in 2022-2023 and/or Precalculus.</p> <p>Calculus/CS - Garner Precalculus - Counce AP CSP - Oyervidez Engineering - Pittman</p>	<ol style="list-style-type: none"> 1. Go to Clever.com, then sign in as a student using your hartselletigers.org gmail account. This should take you to the HCS clever site, and you will see a teacher page at the top for either Garner, Oyervidez, Counce, or Pittman. 2. Click on the teacher page, and you will see the Code Academy icon to access Code Academy courses free of charge. 3. Click on the Catalog at the top of the page, then click on Java. Find the courses shown above “Intro to Java” and “Learning Java: Object Oriented Programming”, and enroll in the courses.
<p>Instructions for Code Academy Access</p> <p>***If you do not see a teacher page after signing into Clever, then just go to the link for code academy:</p> <p>https://www.codecademy.com/</p> <p>Create an account using Sign Up, using your school google account. Then go to the catalog and follow step 3 to the right. You will not have access to PRO content, but you can access programming lessons.</p>	<ol style="list-style-type: none"> 1. If you cannot access CodeAcademy via Clever, then go directly to the website below. https://www.codecademy.com/ 2. Create an account using Sign Up, using your school google account. Then go to the catalog and follow step 3 below. You will not have access to PRO content, but you can access programming lessons. 3. Click on the Catalog at the top of the page, then click on Java. Find the courses shown above “Learning Java Introduction” and “Learning Java: Object Oriented Programming”, and enroll in the courses.
<p>For the students who want to learn more Java over the summer.</p> <p>This is the complete 16 hour course to learn Java. Our summer assignment only covers the first two modules in the course syllabus.</p>	 <p>The screenshot shows a green banner at the top that says "Free course completed!". Below it, the title "Learn Java" is displayed. The description reads: "Learn to code in Java — a robust programming language used to create software, web and mobile apps, and more." At the bottom, there is a small icon of a person, the text "Beginner Friendly", and "16 hours".</p>