Course Name: Native Java

Description: Java is a object oriented programming language that is widely used for cross platform applications. This course introduces programming in Native Java using an IDE.

Available Date: May 1, 2020

Ages: Students 15 to 18 Years. Students under 15 years of age with prior coding experience.

Pricing: Monthly Course Fee $99.00 for one (1) 60 minute classes per week or 2 60 minute classes per week for $178.00

Billing: You will be billed 30 days after your first billing.

Additional Materials: No Purchase Necessary

Instructor/Student Ratio: 1 to 8 maximum. Typically 1:6.

Course Description

While Java is viewed as a programming language to design applications for the Internet, it is in reality a general all purpose language which can be used independent of the Internet. It has particular application to mobile devices.

Java was created at Sun Microsystems, Inc., where James Gosling led a team of researchers in an effort to create a new language that would allow consumer electronic devices to communicate with each other. Java was first released in 1995, and Java's ability to provide interactivity and multimedia showed that it was particularly well suited for the Web.

Why Is It Called Java?

It is customary for the creator of a programming language to name the language anything he/she chooses. The original name of this language was Oak, until it was discovered that a programming language already existed that was named Oak. As the story goes, after many hours of trying to come up with a new name, the development team went out for coffee and the name Java was born.

A New Paradigm

The difference between the way Java and other programming languages worked was revolutionary. Code in other languages is first translated by a compiler into instructions for a specific type of computer.

The Java compiler instead turns codeinto something called Bytecode, which is then interpreted by software called the Java Runtime Environment (JRE), or the Java virtual machine. The JRE acts as a virtual computer that interprets Bytecode and translates it for the host computer. Because of this, Java code can be written the same way for many platforms ("write once, run anywhere"), which helped lead to its popularity for use on the Internet, where many different types of computers may retrieve the same Web page and more recently in mobile devices.

What is JavaScript?

Despite the similarity in names, the JavaScript language that was designed to run in Web browsers is not part of Java. JavaScript was developed in 1995 at Netscape Communications Corp. and was conceived of as a companion to Java. It was originally called Mocha and then LiveScript before Netscape received a marketing license from Sun.

Java or Python?

Python and Java are two very different programming languages, but both can be useful tools for modern developers and data scientists. If you are thinking about learning to code for the first time, then you might find Python easier to pick up. Python's syntax is designed to be intuitive and its relative simplicity allows newbies to hit the ground running. Conversely, Java has a steeper learning curve but is known for its portability and performance.

There are good reasons both languages are mainstays on these types of lists. Both languages are open-source object-oriented languages that have solid cross-platform support, large communities, well-documented standard libraries, and a wide variety of applications.

Whichever path you choose, take the first steps to get started. Learning to code in Java versus Python isn't mutually exclusive. You can pick one up and learn the other down the road. It's better to get hands-on with a language now rather than putting it off while searching for the "perfect" choice. Today's Java programmers can be tomorrow's Python developers and vice versa.

Java is a good choice if:

- You want to develop Android applications
- You want to develop cross-platform applications
- You want to develop backend solutions for large systems
- You want to develop video games (although, we'd suggest taking a look at tour Unity course.)