

Topic	Java	Python
<b>Compilation process</b>	Java is both compiled and interpreted language. The source code is first compiled and converted to bytecode, and afterward, it depends on JIM whether the bytecode will be collected or interpreted	Python is an interpreted language, i.e., it is compiled and executed simultaneously line by line.
<b>Length of code</b>	The length of the code of java programs is more as compared to that of Python as every program has to be written in a class. For Eg- to write hello world program, the code is- <pre>public class HelloWorld {     public static void <b>main</b>(String[] args) {         System.out.<b>println</b>("Hello, World");     } }</pre>	Python has shorter lines of code as you directly write the code and it gets interpreted. For eg- <pre>print('Hello, world!')</pre>
<b>Complexity of syntax</b>	Java is a statically typed programming language. There are hardcore rules for	Python is dynamically typed and there are no hardcore rules for

	braces and semi-colon.	semi-colon and braces. It works on inundation.
<b>Ease of typing</b>	Strongly typed, need to define exact types of variables.	Dynamically typed, no need to define the exact type of variables.
<b>Speed</b>	Java is faster as compared to Python.	Python is relatively slow as it is interpreted language and it determines the type of the variable at run time, which makes it slow.
<b>Usage</b>	It has been in trend for a long time and is vastly used in Android application development, embedded systems, and web applications.	Data science and machine language are made very simple, using Python. Also, it is being used for web development.
<b>Salary trends</b>	The java pay for beginners is less as compared to python beginners, but the trend is changing and python developers are taking that spot.	Python developers are less as compared to Java developers that are why are being paid more. Also, the technicality in the work of python developers is

		more; that is why they are being paid more.
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