**Java 8**

* released in 2014.
* It includes a number of new features and improvements, including:

1. **Lambda expressions:**
   1. Lambda expressions allow you to write anonymous functions in Java. This makes your code more concise and expressive.
2. **Streams:**
   1. Streams provide a way to process data in a sequential or parallel manner. This makes it easy to write high-performance code.
3. **Date and time API:**
   1. The date and time API has been completely rewritten in Java 8. It is now easier to use and provides a wider range of features.
4. **Nashorn JavaScript engine:**
   1. The Nashorn JavaScript engine is a new JavaScript engine that is included in Java 8. This allows you to write JavaScript code in Java and execute it directly on the JVM.

* **Nashorn JavaScript engine**: In addition to these new features, Java 8 also includes a number of improvements to the existing Java platform, such as:
* **Performance improvements**: Java 8 includes a number of performance improvements, such as **a new garbage collector and a new compiler**.
* **Security improvements**: Java 8 includes a number of security improvements, such as a new sandbox model and a new security manager.
* **Stability improvements**: Java 8 includes a number of stability improvements, such as a new crash analysis tool and a new diagnostic command.

Overall, Java 8 is a significant release of the Java programming language that includes a number of new features and improvements. It is a good choice for developing new applications and for migrating existing applications to Java 8.

Here are some of the benefits of using Java 8:

* Improved productivity: Java 8 features such as lambda expressions and streams can help you to write code more quickly and easily.
* Increased performance: Java 8 includes a number of performance improvements that can make your applications run faster.
* Enhanced security: Java 8 includes a number of security improvements that can help to protect your applications from attack.
* Improved readability and maintainability: Java 8 features such as lambda expressions and streams can make your code more readable and maintainable.

If you are developing new Java applications, or if you are considering migrating existing applications to Java, then I recommend that you consider using Java 8.