

JAVA: Object Oriented Programming

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Outline

- 1 Introduction to JAVA
- 2 Quick Get Started
- 3 Object Oriented Programming
- 4 Examples

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History

- 1991, Sun, Naughton and Gosling, "Green" project.
 - They designed a programming language for consumer devices like cable TV switchboxes.
 - They designed a virtual machine to make the language not be tied to any single architecture.
 - The new programming language and virtual machine are implemented in C++.
- 1995, SunWorld, HotJava browser.
 - HotJava browser can execute code inside web pages!
- 1996, Java 1.0 and Java 1.1
- 1998, JavaOne, Java 1.2

History 2

- 2004, Java 5.0, generic types, ``for each" loop and ...
- 2006, Java 6
- Java 7
- Java 8

Current

- Large-scale systems: ERP, EMR, EHR and ...
- Cross-platform applications
- Big data systems: Hadoop, Spark, Storm
- JVM languages: Cloude, Scala, ...

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Websites

Websites

- java.oracle.com
- JavaEye (in Chinese)

Books

Books

- Core Java, 8th Edition
Java核心技术
- Thinking in Java, 4th Edition
Java编程思想
- Effective Java

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```
public class HelloJava{  
  
    public static void main(String[] args) {  
        System.out.println("Hello Java!");  
    }  
  
}
```

```
$javac HelloJava.java
```

```
$java HelloJava
```

```
Hello Java!
```

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How to Run Java programs?

You need Java Runtime Environment!

How to Develop Java programs?

You need Java Development Kit!

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Eclipse

body

NetBean

body

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Ant



Maven

body

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