

# Java

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# Java

Java is an object-oriented programming language that is intended to be runnable from many different operating systems without recompiling.

- **Essential Links**

- Home Page: <http://java.sun.com>
- Downloads: <http://java.sun.com/downloads/>
- Forums: <http://forum.java.sun.com/index.jspa>
- Tutorials: <http://java.sun.com/learning/tutorial/>
- Community: <http://www.theserverside.com>
- Conference: <http://java.sun.com/javaone/sf/>

- **Open Source**

- The Apache Software Foundation: <http://www.apache.org/>
- O'Reilly Open Source Java Directory: [http://www.onjava.com/pub/q/java\\_os\\_directory](http://www.onjava.com/pub/q/java_os_directory)
- Java-Source.Net: <http://java-source.net/>

- **Books**

- *For Learning Java:*
  - Core Java, Volume I: Fundamentals by Gary Cornell, Cay S. Horstmann, Cay S. Forstmann
  - Core Java, Volume II: Advanced Features by Cay Horstmann, Gary Cornell
- *For Reference:*
  - The Java™ Programming Language by Ken Arnold, James Gosling, David Holmes
  - The Java™ Language Specification by James Gosling, Bill Joy, Guy Steele, Gilad Bracha
- *For Best Coding Practices:*
  - Effective Java by Joshua Bloch
- *For Designing GUIs:*
  - Java Look and Feel Design Guidelines:  
<http://java.sun.com/products/jlf/index.html>

- **Tools**

- IDEs
  - Eclipse: <http://www.eclipse.org>
  - NetBeans: <http://www.netbeans.org/>
  - Sun Java Studio Enterprise:  
<http://developers.sun.com/prodtech/javatools/jsenterprise/index.jsp>

- Sun Java Studio Creator:  
<http://developers.sun.com/prodtech/javatools/jscreator/index.jsp>
- Frameworks
  - Java Server Faces: <http://java.sun.com/javaee/javaxserverfaces/>
  - Shale: <http://struts.apache.org/struts-shale/>
  - Spring: <http://www.springframework.org/>
  - Struts: <http://struts.apache.org/>
  - Webwork: <http://www.opensymphony.com/webwork/>
  - Tapestry: <http://jakarta.apache.org/tapestry/>
  - Grails: <http://grails.codehaus.org/>
  - RIFE: <http://rifers.org/>
  - Trails: <https://trails.dev.java.net/>
  - Hibernate: <http://www.hibernate.org/>
- AJAX
  - Prototype: <http://prototype.conio.net/>
  - Script.aculo.us: <http://script.aculo.us/>
  - Dojo: <http://dojotoolkit.org/>
  - DWR: <http://getahead.ltd.uk/dwr/>
  - Google Web Toolkit: <http://code.google.com/webtoolkit/overview.html>
  - Java Server Faces: <http://java.sun.com/javaee/javaxserverfaces/ajax/tutorial.jsp>
- Build
  - Ant: <http://ant.apache.org/>
  - Maven: <http://maven.apache.org/>
- Web Container
  - Tomcat: <http://jakarta.apache.org/tomcat/index.html>
- Application Server
  - JBoss: <http://www.jboss.com/products/jbossas>
  - Geronimo: <http://geronimo.apache.org/>
- Portal
  - Liferay: <http://www.liferay.com/web/guest/home>
  - JBoss: <http://labs.jboss.com/portal/jbossportal/index.html>
- Enterprise Content Management
  - Alfresco: <http://www.alfresco.com/>

# XML and Java

- **XML and Java**

- Cocoon is a Java-based framework. It utilized pipelines and SAX events to create a versatile XML parsing architecture. The Cocoon web site is at:

<http://cocoon.apache.org/2.0/>. Books are now coming out on Cocoon (check out Amazon). The O'Reilly web site has on-line articles on Cocoon: "Introducing Cocoon 2.0" (<http://www.xml.com/pub/a/2002/02/13/cocoon2.html>) , "Creating SOAP Services with Cocoon" (<http://www.xml.com/pub/a/ws/2003/03/18/cocoon.html>)

—Jose

# Converting Java content into AJAX (Javascript and XML)

If you have a program in Java or know how to program in Java and would like to convert your code to be used on websites as AJAX (Javascript and XML), Google Web Toolkit can help do it for you instead of doing so by hand.

[Google Web Toolkit](#)

The Web Toolkit offers a lot of tools for creating webcontent from your Java apps and is perfect for me since I don't have any experience with Javascript or XML. If you know how to program in Java, make sure to check it out.

# Create a Java class that is only comparable to itself

In Java 5 and above, how to create a Java class that is only comparable to itself? The answer is to extend `Comparable<TheClass>`. This works even if `TheClass` uses generics.

```
public class SelfComparableOnly<T> implements Comparable<SelfComparableOnly<T>> {    ...    publ
```

# Removing old Java versions

Java is notorious for installing updates (current version as of this writing is version 6, Update 23) but not removing the old versions.

Finding a system with multiple Java versions (e.g. Java 6 Update 10, Java 6 Update 17, and Java 6 Update 20 all on the system's Add/Remove Programs) is fairly common.

Java until recently did not provide for proper “upgrading” of old versions or cleanup of them. Fortunately Java 6 Update 23 does do this properly.

To remove older versions:

[http://www.java.com/en/download/faq/remove\\_oldversions.xml](http://www.java.com/en/download/faq/remove_oldversions.xml)

[http://www.java.com/en/download/help/uninstall\\_java.xml](http://www.java.com/en/download/help/uninstall_java.xml)

It is, unfortunately, fairly primitive— simply to to Add/Remove Programs or Programs and Features and remove them one at a time by uninstalling them.

# Java Server Faces

**Java Server Faces (JSF)** Mark Norton came across a very handy web page which documents all of the standard JSF tags and includes examples in XML and graphics.

<http://www.horstmann.com/corejsf/jsf-tags.html>