

Ian Darwin's One-Page Java Handout

<http://www.darwinsys.com/>

Java is one of most-widely used languages, and the one I like best. Versions of Java run on all desktop operating systems, most current cell phones (including *every single BlackBerry phone and Android phone/tablet app*), SmartCards, many standalone devices, and on a variety of other computers including IBM mainframes and OS/400. For all but the smallest devices, you can move a Java program from one computer to another without even recompiling.

Some web sites/projects you should know about:

<http://www.darwinsys.com/java/javaResources.html> - longer, more complete version of this.

<http://www.darwinsys.com/anoncvs.html> - **my open-source projects**

<http://oracle.com/technetwork/java> (formerly java.sun.com/ - world-wide homepage for Java dev.java.net/ - Sun-funded home page for many free open-source projects

OpenJDK - the GPL'd version of Sun's Java implementation: openjdk.dev.java.net

harmony.apache.org - Apache's open source JDK

geronimo.apache.org - Apache's open source Java EE server

glassfish.dev.java.net - Sun's open source Java EE server

www.junit.org - Famous unit test framework: just use it. www.testng.org - competitor.

Related Languages:

Groovy (scripting language for Java) <http://groovy.codehaus.org/>

BeanShell (older scripting language for Java)

Jython - Java-based implementation of Python

JRuby - Ruby language (including the Rails web framework) in the JVM (Sun-funded!)

Web Site Development:

Java + (Spring MVC or Seam or Struts) + ([Tomcat](#) or [JBossAS](#) or Geronimo)

[Groovy](#) + [Grails](#) (takes ideas from "Ruby on Rails" framework)

[Seam Framework](#) - powerful comprehensive framework, unites JSF, EJB3, JPA and more!

[Spring Framework](#) - lightweight IOC (Inversion of Control) framework (includes web tier)

[Struts 2](#) - merger of Struts & WebWork - struts.apache.org

Full list of Java Web Frameworks at <http://www.darwinsys.com/jwf/>

Books:

General: See O'Reilly (<http://www.oreilly.com/java/>), ChaptersIndigo.ca and Amazon.ca.

Java Cookbook: <http://javacook.darwinsys.com/> Android: <http://androidcookbook.com/>

Checking Java Programs: <http://cjp.darwinsys.com/>.

Interesting non-Java free/open source software:

UNIX systems: www.openbsd.org (secure), www.freebsd.org (scalable), Linux; ...

libreoffice.org - complete, free, compatible office suite (word process, spreadsheet, present...)

[Asterisk.org](http://asterisk.org) - complete, free, full-function "PBX" (telephone system) for UNIX

[Android.com](http://android.com) - complete open-source cellular telephone on Linux and telephony stack

Mozilla.org: Thunderbird email, Firefox browser (see also book: *Don't Click on the Blue E*)

Graphics: OpenClipArt.org, Gimp (photo), Inkscape (illustrate), Scribus (pages layout)

SSH - never use telnet or rlogin over the public internet, use [SSH](#) instead

Database: www.postgresql.org, www.mysql.com sqlite.com many others

OpenStreetMap.org - building a world map that is not encumbered by copyright

Open Source repositories: sourceforge.net, codehaus.org, dev.java.net, fsf.org, tigris.org, ...

Toronto Learning Tree Education Centre - Local "Buying Computer Stuff" Info:

Commercial: Best Buy (next door in Ryerson), Future Shop (Yonge at Dundas, NE corner);

College St. west of Spadina (20 mins on foot) - two dozen discount computer shops

User Groups: Java: Toronto Java Users' Groups (1) www.torontojug.org (2) <http://tjug.ca/>

***NIX:** Linux:NewtLUG (newtlug.linux.ca); BSD:GTABUG (gtabug.ca), Asterisk:TAUG (taug.ca)

Books: Two ChaptersIndigo stores 5-10 minutes on foot from the Learning Tree Education

Centre: 1) Go south in the mall, upper level; 2) World's Biggest (Go north to Edward St).