

Tools for refactoring

Software tools play a critical role in the process of refactoring. This document provides a non-exhaustive list of commonly available tools - along with their categories, supported languages, license, and web-site link - that can help in the process of refactoring to repay technical debt.

Tool name	Category							Supported languages	License	Website/Author
	Comprehension	Critique	Code-clone detector	Metric	TD quantification and visualization	Refactoring (candidate identification)	Refactoring (execution)			
ArgoUML		Y						UML	Free	http://argouml.tigris.org/
Axivion Bauhaus Suite	Y	Y	Y	Y				C/C++, Java, C#, ...	Commercial	http://www.axivion.com/products.html
Clone Doctor			Y					C++, Java, C#, and many others	Commercial	http://www.semdesigns.com/Products/Clone/
Coverity		Y						C/C++, Java, C#	Commercial	http://www.coverity.com/
CppDepend	Y	Y		Y				C++	Commercial	http://www.cppdepend.com/
Eclipse							Y	Java	Free	https://www.eclipse.org/
FxCop		Y						C#	Free	http://msdn.microsoft.com/en-us/library/bb429476(v=vs.80).aspx
Imagix 4D	Y			Y				C/C++, Java	Commercial	http://www.imagix.com/index.html
Infusion		Y		Y				C/C++, Java	Commercial	http://www.intooitus.com/products/infusion
iPlasma		Y		Y				C/C++, Java	Free	http://loose.upt.ro/reengineering/research/iplasma
JArchitect	Y	Y		Y				Java	Commercial	http://www.jarchitect.com/
Jdeodorant		Y						Java	Free	http://www.jdeodorant.com/

Jdepend				Y				Java	Free	http://clarkware.com/software/JDdepend.html
McCabe IQ	Y	Y		Y		Y		C/C++, C#, Java, ...	Commercial	http://www.mccabe.com/iq.htm
MOOSE toolsuite	Y	Y	Y	Y				C/C++, Java, C#, ...	Free	http://www.moosetechnology.org/
NDepend	Y	Y		Y				C#	Commercial	http://www.ndepend.com/Default.aspx
PC-Lint		Y						C/C++	Commercial	http://www.gimpel.com/html/pcl.htm
PMD		Y						Java, Java-script	Free	http://pmd.sourceforge.net/
PMD-CPD			Y					C++, Java, C#, ...	Free	http://pmd.sourceforge.net/
Resharper		Y					Y	C#	Commercial	http://www.jetbrains.com/resharper/
RSM Metrics				Y				C/C++, Java, C#, ...	Commercial	http://msquaredtechnologies.com/
SCOUT						Y		C#	Not released publicly	Tushar Sharma
SDMetrics				Y				UML	Commercial	http://www.sdmetrics.com/
Simian			Y					C++, Java, C#, ...	Commercial	http://www.harukizaemon.com/simian/
Sissy		Y						C++, Java, and Delphi	Free	http://www.softpedia.com/get/Programming/Other-Programming-Files/SISSy.shtml
SonarGraph	Y	Y	Y	Y	Y				Commercial	http://www.hello2morrow.com/products/sonargraph
SonarQube				Y	Y			C++, Java, C#, ...	Free	http://www.sonarqube.org/
SotoArc	Y	Y					Y	C/C++, Java, C#, ...	Commercial	http://www.hello2morrow.com/products/sotoarc
Sotograph	Y	Y		Y				C++, Java, C#	Commercial	https://www.hello2morrow.com/products/sotograph
Source Monitor				Y				C++, Java, C#, ...	Free	http://www.campwoodsw.com/sourcemonitor.html
Stan4j		Y		Y				Java	Commercial	http://stan4j.com/
Structure 101	Y	Y						Java, C#	Commercial	http://structure101.com/
Understand	Y			Y				C++, Java, C#, ...	Commercial	http://www.scitools.com/
Visual Studio (Architecture Explorer)	Y			Y			Y	.NET	Commercial	http://www.visualstudio.com/