

Tool/Project	What	Relevance	Host Project	Principals	Framework	Language	Dev. Team	Activity	Platform	License	Project Web Pages	Comments
AmaterasUML	A Java-based open source free UML modelling tool, follows the UML standard. Can forward and reverse engineer Java code. Eclipse Public License -v 1.0 EPL .	low (too small, too limited)	None	Unaligned (Japan)	Eclipse	Java	2			EPL 1.0	http://amateras.sourceforge.jp/cgi-bin/faq/wiki_en/wiki.cgi?page=AmaterasUML	Limited UML (Class, Use case, Activity, and Seq diagrams only)
AndroMDA	AndroMDA is a code generation framework that follows the model driven architecture (MDA) paradigm. It takes a UML model from a CASE-tool and generates classes and deployable components (J2EE or other).	medium (generic code generation facility, but limited in scope)	None	Matthias Bohlen	Maven	Java	15	Increasing	Windows (.NET)/any Java	BSD	http://www.andromda.org/index.php	Complements existing UML tools
ArgoEclipse	UML plugin for Eclipse based on the popular ArgoUML open source tool; Reverse engineering and code generation available in multiple languages included Java, C++, PHP, and others. Also supports model generation for AndroMDA for MDA/MDD style development; Supports all standard UML diagram types and includes an innovative design critiquing facility to provide feedback during design.	low (just starting)	Own	Tom Morris	Eclipse	Java	5	Increasing	any Eclipse	EPL 1.0	http://argoecclipse.tigris.org/	reused the original code base from ArgoUML but combined it with the Eclipse UML 2 project sources; however, the migration to UML 2 and Eclipse is in its early stages and it is not clear how big the community is, but it seems relatively small now (students and a few enthusiasts)
ArgoUML	A Java-based open source free UML modelling tool, closely follows the UML standard. Can reverse engineer Java code (Plugins available for other languages, inc. c#). BSD license.	low (based on UML 1, moving to ArgoEclipse)	Argo project	Argo project	Eclipse (in development)	Java	13	dropping		Open Publication License; BSD	http://argouml.tigris.org/	moving to Eclipse and EMF base, only recently started work on UML 2 support; decreasing dev. Activity
Astade	Open Source platform-independent UML-tool for C++, based on wxWidgets. Limited UML diagram support for C/C++ developers	low (seems highly specialized)	None	Thomas Spitzer	None?	C++	12	Increasing		GPL	http://astade.tigris.org/	Limited to C/C++ generation, limited diagram support (class, use case, sequence, collaboration)
BeoModeler	a web-based UML modeling tool	low (limited support, limited development resources)	Beotic	Beotic						"based on BSD"	http://www.beotic.org/	because it is web-based claims are made that it is much faster than native tools; supports only part of UML 2, but interchanges with most popular commercial tools; source code is free, but support is not; limited diagram support (use case, class, collaboration, package, object)
BIRT	BIRT is an Eclipse-based open source reporting system for web applications, especially those based on Java and J2EE. BIRT has two main components: a report designer based on Eclipse, and a runtime component that you can add to your app server. BIRT also offers a charting engine that lets you add charts to your own application.	high (used in several commercial products as the core documentation tool)	Eclipse::BIRT	Actuate, IBM, Innovent Solutions, InetSoft, Tsinghua U.	Eclipse	Java	large	active	any Eclipse	EPL	http://www.eclipse.org/birt/phenix/	Some concerns have been expressed about the usability of BIRT. However, it seems to be the most capable Eclipse-based open-source document generation product available.
BOUML	multi-platform UML 2.0 toolbox. Can generate C++/Java/IDL/PHP/Python and reverse engineer C++/Java/PHP. Has XML import/export. Very high performance (written in C++ with Qt).	medium (significant user base)	None	Bruno Pages (France)	Qt	C++		active	Unix/Linux/Solaris, MacOS X(Power PC and Intel) and Windows (using Qt)	GPL	http://bouml.free.fr/	second most popular UML tool in SourceForge based on downloads (>4000 / month). Claims to be very fast and scalable to large models; developed by a single individual with lesser contributions by others; however, needs Qt (commercial software) to run on Windows
ClassBuilder	a C/C++ Uml modeling tool under zlib/libpng license.	low (very specialized)	None?							zlib/libpng	http://members.multimania.nl/JimmyVenema/ClassBuilder/ClassBuilder.htm	Supports only class and sequence diagram modeling for C/C++ code generation
Coral	a full metamodeling toolkit	medium (academic project, no new developments since 2007)	MDE project within the Centre for Reliable Software technology (CREST)	Åbo Academy (Finland)	Coral	Python				GPL	http://mde.abo.fi/confluence/display/MDE/Home	A platform for building development tools; "not a replacement for existing UML tools"

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Dia (UML tool)	A Visio-like GTK+/GNOME diagramming tool that also supports UML	low (limited scope: a drawing tool)	GNOME Desktop Environment	GNOME	GTK+/GNOME	C	204	Increasing	GNU Linux/UNIX	GPL	http://www.gnome.org/projects/dia/	GNOME is a desktop environment with a GUI; Sounds like it has no true UML metamodel support; seems to be part of the general GNU initiative
EASE Designer	EASE - Architect Solutions Easily is a UML-Modeler with a WPF user-friendly interface. It can export the solution done with EASE to a C# Solution in Visual Studio.	low (limited to C#?)	None	Timothé LARIVIERE	WPF	C#	2?	starting	Windows 7	???	http://sourceforge.net/projects/easedesigner/	claims to support all UML diagrams
FrameUML	UML modeling tool (http://sourceforge.net/projects/frameuml/)	low (limited scope)	None	Unaligned (China)	??	C++/Java				GPL	http://sourceforge.net/projects/frameuml/	Windows only platform
Fujaba	A tool framework for MDE that includes a UML 2 modeling tool; Open Source, acronym for "From UML to Java And Back Again". Allows modeling behaviour using story diagrams.	medium (academic project, but may have some interesting capabilities)	Own	U. of Paderborn + other U's	Own (but integrated with Eclipse)	Java			Eclipse		http://www.fujaba.de/	Includes a real-time suite as well as tools for reverse engineering, etc.; mostly used by research groups in Western Europe
Gaphor	a GTK+/GNOME UML 2.0 modeling environment written in Python	low (limited scope, limited resources)	GNOME Desktop Environment		GNOME	Python				GPL	http://gaphor.sourceforge.net/	only 2 contributor; may be dying
Green UML	UML editor for "live" round-tripping with Java and UML; : green is a LIVE round-tripping editor, meaning that it supports both software engineering and reverse engineering. Supports class diagrams. Eclipse plugin.	low (academic tools for teaching)	None	U. of Buffalo	Eclipse	Java				EPL 1.0	http://green.sourceforge.net/	Developed for teaching, but claims to be more (U. Of Buffalo); seems to only support class diagrams
GWT UML	online UML drawing using GWT	low (limited scope)	ODLabs	Objet Direct (France)	GWT	Java/Javascript				GPL	http://code.google.com/p/gwtuml/	Drawing tool for UML diagrams in Wiki pages
HOL-OCL	An interactive theorem proof environment for UML/OCL; it is implemented as a shallow embedding of OCL into the Higher-order Logic (HOL) instance of the interactive theorem prover Isabelle. HOL-OCL	medium (a unique but potentially useful Eclipse-based capability)	None?	ETH + SAP Research?		Standard ML				GPL	http://www.brucker.ch/projects/hol-ocl/	Seems like an academic project
Jink UML	Seems like a drawing tool with some support for UML-like notation for sketching out software; Easy to use UML Tool for Java (licensed under MIT).	low (limited resources, no development activity in over 8 months)	None?	mirraJ2?		Java				Open Source Initiative MIT license	http://code.google.com/p/jink-uml/	Seems like a small scale effort by one or two individuals; stored in code.google.com
jTracert	seq. diagram generator from running Java code; a Java agent which instruments applications running on the JVM and builds sequence diagrams. Being replaced by jSonde, which is currently in beta.	low (limited scope)	None?	Dmitry.Bedrin		Java	1			APACHE 2.0 and GPL (conflict?)	http://code.google.com/p/jtracert/	Seems small scale and highly specialized; but may be useful
Kermeta	Kermeta is an Eclipse-based metamodeling tool for development of domain-specific languages, model transformations, and model simulation	medium (research project primarily)	TOPCASED / Own	INRIA (Rennes)	Eclipse	Java		increasing	any Eclipse	EPL	http://www.kermeta.org/	Although primarily a research tool, Kermeta has an impressive set of capabilities, notably the ability for model simulation.
Kivio	A general drawing tool for a general docs package; part of the KOffice project	low (limited to KDE framework)	KOffice		KDE	C++	74 (for all of KOffice)	increasing	Linux	GPL	http://www.koffice.org/kivio/	A Visio-like tool part of the KOffice offering (not ready for release at time of review); it can be provided with a UML stencil
MetaUML	a tool for typesetting UML diagrams from a Tex and LaTeX; UML textual notation package implemented in MetaPost. Various vectorial and bitmap output formats supported.	low (limited scope)	None							GPL	http://metauml.sourceforge.net/	

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MOFScript	This is an Eclipse-based implementation of a MOF to Text engine (but not fully conformant to the OMG standard). It supports model to text and model to model transformations.	medium (possible base for code generation, model transformations, and document generation)	Modelware / Modelplex	SINTEF	Eclipse	Java		active	any Eclipse	EPL	http://www.eclipse.org/gmt/mofscript/	Has been used in industrial practice
MOCASEngine	MOCASEngine is a java UML state machine engine library for executing embedded UML state machine models. MOCASEngine works with Eclipse EMF. It has a full support of composite/orthogonal states, completion transitions, guard, hierarchy of signals, ...	medium (possible base for simulation)	None	Cyril BALLAGNY	Eclipse	Java	1?	active	any that runs Java	Apache License V2.0	http://sourceforge.net/projects/mocasengine/	
MonoUML	based on the latest[update] Mono, GTK+ and ExpertCoder. Can reverse engineer executables and .NET assemblies.	low (no activity)	Mono	Argentina?	Mono	C#	3?		UNIX/Linux	???	http://www.monouml.org/	Related to nUML (same contributors); but no contributions in the past 2 years. May be dead; only seems to support use case and class diagrams
MOSKitt	UML Eclipse based tool for giving support to Model Driven based methodologies on Software Development Process. Continuing via the Papyrus project	low (merged into Papyrus effort)	Own	Valencian Regional Ministry of Infrastructure and Transport						EPL	http://www.moskitt.org/	These folks agreed to merge their efforts with that of the Papyrus team; MOSKitt as such is no longer under development
Nclass	an open source tool to create UML class diagrams with full C# and Java language support.	low (limited scope)	None		.NET/Mono	C#			Windows	GPL 3	http://nclass.sourceforge.net/	Third most popular UML tool in SourceForge based on downloads (>300 / month), seems very limited (clas diagrams only and only for Java and C#)
nUML	Library for manipulating UML 2.0 and MOF 2.0 models, for .NET, Mono, and DotGNU. Provides serialization to/from XMI 2.1.; converts between XMI versions (some conversions ignore state machine diagrams). (see MonoUML entry)	low (seems inactive, limited to Windows .NET)	None		.NET, Mono	C#				GPL 2	http://numl.sourceforge.net/index.php/Main_Page	
openArchitectureWare	A comprehensive effort to provide model authoring and model-transformation capabilities based on Eclipse	low (key components moved to Eclipse as part of the Eclipse modeling project)	Own	itemis, Zuehlke, Codeworkz	Eclipse	Java		sustaining only	Eclipse	EPL	http://www.openarchitectureware.org/	Most, but not all, components of this effort have been moved to the Eclipse Foundation endorsed MDT project. Support is still provided for existing users to help them migrate.
Open ModelSphere	tool data, process and UML modeling tool that covers conceptual and logical data modeling as well as physical design, i.e. database modeling (database modelling). Also providesActivity, Class, Collaboration, Component, Deployment, Package, Sequence, Statechart and Use Case diagrams.	low (limited resources, may no longer be open source)	Started as a U. of Laval project, but evolved and is now supported by Grandite (Quebec company)	Grandite, U. of Laval	Own?	Java		"over 1000 users"	Any java	GPL 3	http://www.modelsphere.org/	Seems focused primarily towards database apps. Looks to be more than a university project; has a commercial support services vendor behind it (probably the business side of the main development team); looks like a relatively small scale operation
OpenAMEOS	Open source version of AMEOS UML tool released by AONIX	low (because of organizational change)	AONIX/Artisan	AONIX	None?	Java			Windows, Solaris, Linux	Lesser GPL	http://www.openameos.org/	Probably gave up on trying to make money on tools (Kelvin Nielsen is their CTO); note that AONIX joined Artisan in Jan. 2010 -- not clear what is the fate of this UML tool given that Artisan has its own
PlantUML	a tool written in Java that uses simple textual descriptions to draw a subset of UML diagrams. Can be integrated with Word.	low (limited scope)	None	Arnaud Roques	Eclipse, Graphviz	Java	(very small?)	active		GPL, OSI-approved open source	http://plantuml.sourceforge.net/	Fourth most popular UML tool in SourceForge based on downloads (>200 / month)
PyUML	Graphical UML Editor plugin for Eclipse based on Eclipse UML2Tools that supports Python roundtrip, views and live validation	low (limited to Python)	None?	Unaligned	Eclipse (UML 2 Tools)	Python?				EPL 1.0	http://sourceforge.net/projects/eclipse-pyuml/	Seems very specialized; based on UML 2 Tools in Eclipse

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StarUML	an open-source UML/MDA PLATFORM for Microsoft Windows, licensed under a modified version of GNU GPL, mostly written in Delphi. Not under active development since 2005.	medium (widely used, but development stopped)	None	Independent team of developers primarily from the Republic of S. Korea	COM	Delphi 7/Kylix	18	none since 2006	Windows	GPL	http://staruml.sourceforge.net/en/	Most popular open-source UML tool stored in SourceForge based on download data (>9,000 weekly downloads). There was an attempt with the SunUML project to take this over, but the last activity there was in March 2009.
Taylor	model-driven architecture "on rails" (licensed under the GNU LGPL) for creating JEE apps using UML diagrams	low (limited scope)	None		Eclipse	Java		active	any Eclipse platform	GNU Library or Lesser General Public License (LGPL)	http://taylor.sourceforge.net/index.php/Overview	Very specialized
TextUML Toolkit	a tool for creating UML 2.1 models using a textual notation (EPL).	low (limited scope)	None	Rafael Chaves	Eclipse	Java		active	any java platform	EPL	http://abstratt.com/	who wants to use text for UML? Doesn't seem particularly in demand
TinyUML	open-source UML 2 diagramming tool implemented in Java, requiring Java SE 6 or later (licensed under the GNU GPL)	low (limited scope)	None	Wei-ju Wu		Java				GPL	http://sourceforge.net/projects/tinyuml/	supports only class diagrams
TOPCASED	A complete environment for model-based development of critical systems	high (broad scope, compatible with other model-based tools and plugins)	Own	Numerous European (mostly French) enterprises	Eclipse	Mostly Java	56	active	any Eclipse platform	EPL?	http://www.topcased.org/	UML2 editor being replaced by Papyrus 2 (SysML editor as well?), support for reverse engineering both C and Java to UML, support for requirements authoring management
Umbrello UML Modeller	Set of eclipse-based open source model editors, transformation and formal verification tools. Modelling languages include SysML. Development sponsored by European aerospace manufacturers. A merge with Papyrus is in preparation (2007). Umbrello is part of KDE's kdesdk module.	low (in decline)	KDE Desktop Environment		KDE	C++	11	Dropping	GNU/Linux	BSD	http://uml.sourceforge.net/	UML tool for KDE; Forward- and reverse-engineering for C++/Java/Perl/PHP/Python and other programming languages. Seems to focus mostly on diagrams; web page has not been updated for almost 3 years, seems to be dying
UML Pad	supports Use Case, Class, Sequence, State and Activity diagrams	low (limited diagram support)	None						Windows	GPL	http://web.tiscali.it/no-redirect-tiscali/ggbhome/umlpad/umlpad.htm	
UmiCanvas	provides web-authors with a versatile tool to include visual UML diagrams in their webpages, blogs, wikis,... without launching a CASE tool, exporting an image and upload it to their server	medium (browser based)	TheModelFactory	2Know BVBA, IntoDesign BVBA, and Bellekent IT (Belgian companies)	Canvas2D (HTML5)	Javascript				BSD	http://umicanvas.org/	enables internet-based sharing of models
UMLet:	a Java-based UML tool (licensed under the GNU GPL)	low (limited scope)	None	TUWien	??	Java	3?	active	stand-alone or as Eclipse plug-in on Windows, OS X and Linux	GPL	http://www.umlet.com/	very lightweight for students primarily (similar to Violet)
Unimozer	intends to be a universal modelizer for Java™. It allows the user to draw UML diagrams and generates the relative Java™ code automatically and vice-versa. (written in Java, licensed under the GNU GPL)	low (limited scope (learning Java))	None			Java		active	any that runs Java	GPL 3.0	http://www.umlet.com/	A tool for learning Java
Use Case Maker	a use cases management tool (licensed under the GNU LGPL)	low (limited scope)	None	Gabriele Gaspardis	.NET	C#, XSL		active	Windows	LGPL	http://use-case-maker.sourceforge.net/	a requirements management tool
Violet UML Editor	: an easy-to-use high performance Java-based UML Editor; simplified (non-standard) UML notation; fully integrated into Eclipse; licensed under the GNU GPL	low (limited scope)	None	TU Wien?		Java		active	OS X, Linux, WinXP	GPL	http://www.horstmann.com/violet/	very lightweight for students primarily; similar to UMLet

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XMF	Ceteva's core technology XMF is an industry strength programming language for defining domain specific languages (DSLs) which can be either standalone or weaved with existing DSLs. XMF supports the Language Oriented Programming paradigm	medium (rather extensive as a DSL toolkit since it includes model simulation and execution)	Ceteva	Tony Clark; James Willans; Paul Sammut	Eclipse	Java	3?	dropping	any Eclipse	EPL	http://itcentre.tvu.ac.uk/~clark/xmf.html	Was part of a the xAction company's product; but the company decided to put it into open source separate from the company; under the CETEVA brand