Software Tools for UML

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Readings

- UML course textbook
 - Chapter 16 on Software Tools for UML

Overview

- UML and Modelling Tools
- Features of UML Modelling Tools
- Supporting Cooperative Work

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UML and Modelling Tools

- CASE (Computer Assisted Software Engineering or Computer Aided Software Engineering) tools
- Programming-Language Independence
- Strong correspondence between Object-Oriented Languages and UML
- Extensibility

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Features of UML Modelling Tools

- UML Diagrams
- Compliance to UML Standards
- The Repository (e.g., objects, attributes, operations, states, etc.)
- Shared Access to the Repository
- Integrity of the Repository
- Version Control
- Traceability and Change Management
- Code Generations
- Model Interchange between Tools (e.g., XMI)
- Document Generation

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Other features are:

- Tagged Values
- Icons
- Relationship between Tools
- Method Support and Enforcement
- Framework and Patterns
- OCL
- Profiles

CVS provides mechanisms that support the shared access to the repository, maintain its integrity and support version control.

UML Tools (Programming Environments)

UML features	ArgoUML	Eclipse	NetBeans	StarUML
	0.24	3.3/3.2.2	5.5.1	5.0.2.1570
Plugins	No	Yes	Yes	No
		ArgoUML	NetBeans UML	
		Omondo		
Compliance	1.4	1.4 / 2.0	2.0	2.0
Java Code Generation	Yes	Yes	Yes	Yes
Document Generation	No	Yes	No(?)	Yes
Testing Support	No	Yes	Yes	No
Refactoring	Yes	Yes	Yes	Yes
CVS	No	Yes	Yes	No
Model Interchange	Yes	Yes	Yes	Yes

Other tools for UML: IdeogramicUML, Objecteering, Rational Rose Suite, Rhapsody, System Architect, Tau, Together, Visio.

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Summary

- Software Tools for UML

 - UML and Modelling ToolsFeatures of UML Modelling Tools
 - Supporting Cooperative Work

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