

**An overview of high-level intermediate representations**

**Teun van Hemert**

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# Why high-level intermediate representations?

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# Intermediate representations

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- JAMI
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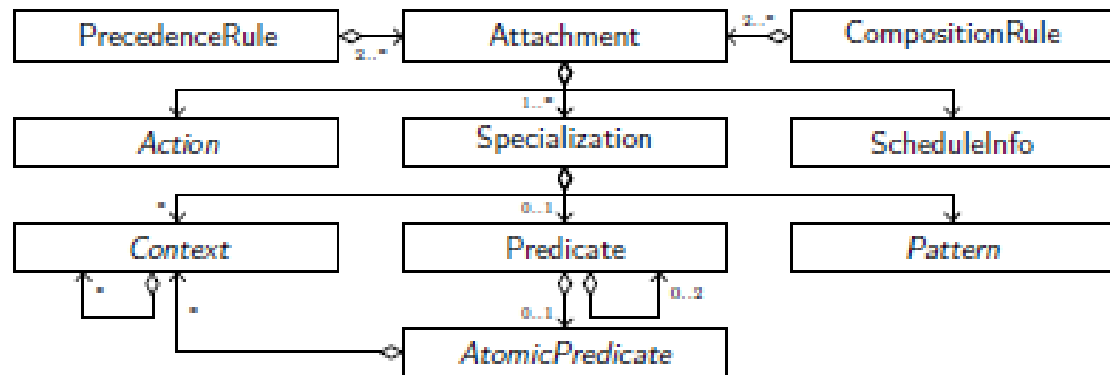
## ALIA4J

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- Advanced-dispatching
- Fine-grained meta-model
- Extensible
- Multiple execution environments



# ALIA4J





# JAMI

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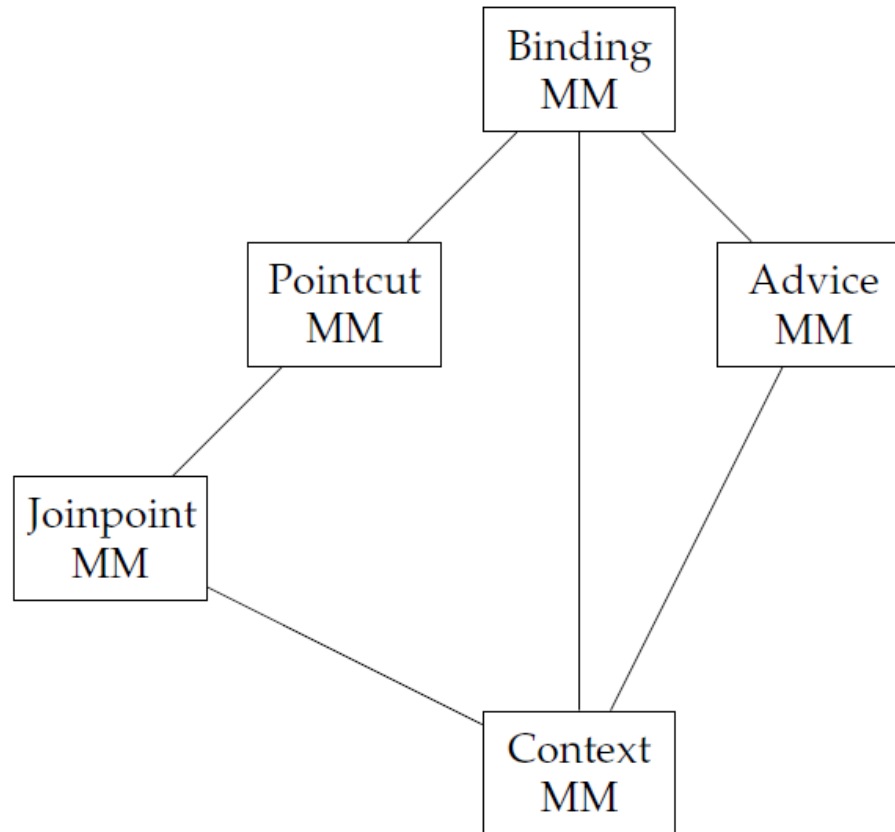
- Rapid prototyping of Domain-Specific Aspect Languages
- Runs on top of AspectJ
- Fine-grained meta-model
- Supports compositions of multiple DSALs





# JAMI

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# Reflex

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- Based on behavioral and structural reflection
- Coarse-grained model
- Also supports composition of multiple DSALs
- Automatic conflict detection between languages
- Supports explicit conflict resolution





# Reflex

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# AspectInfo

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- Used in the AspectBench Compiler
- AspectJ-specific
- Specifically designed for AspectJ extensions






# Comparison

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- Expressiveness
- Execution
- Compilation





# Suitability for Co-op/III bindings

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Questions?

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