

# Recommendation Tools to Support Large Scale Refactoring

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# Agenda

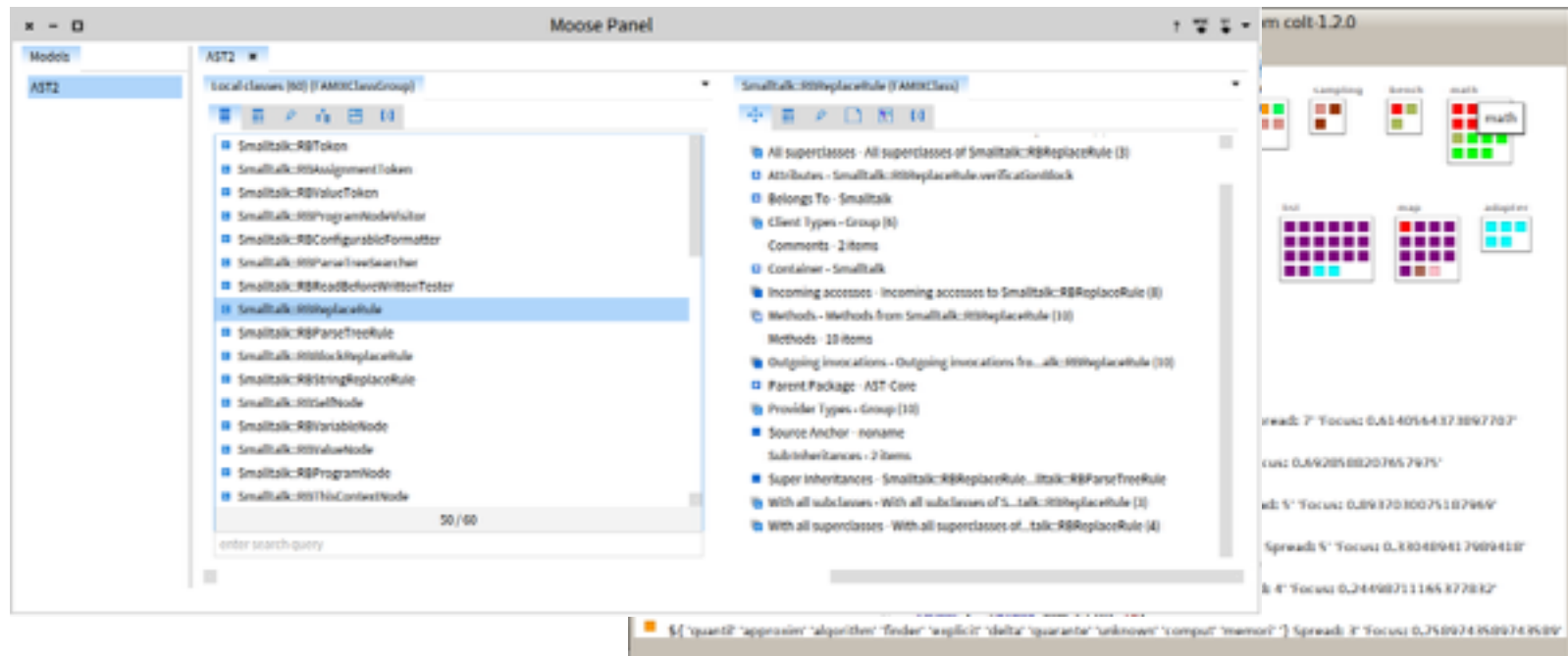
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- self presentation
- Motivation
- Recommendation Tool
- Current status



# Internship

- Hapax
- Information Retrieval
- Clustering Techniques



# Interests

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- Software Visualization
- Software Maintenance
- Architectural Conformance
- Software Metrics
- Information Retrieval
- Metrics Assessment
- ...

# Advantages

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Metrics

Tools

- Automatic (or sort of)
- Visualize with a specific point of view



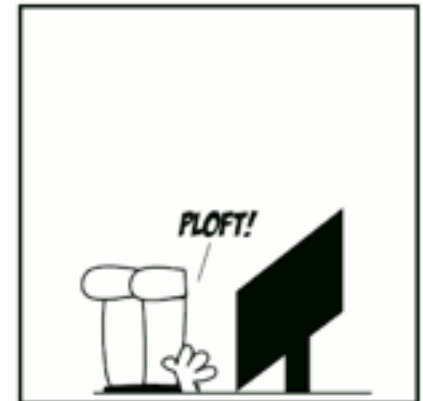
# Disadvantages

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Metrics

- No reference values
- Subjective to analysis
- “No silver bullets”

Tools



# Our Approach

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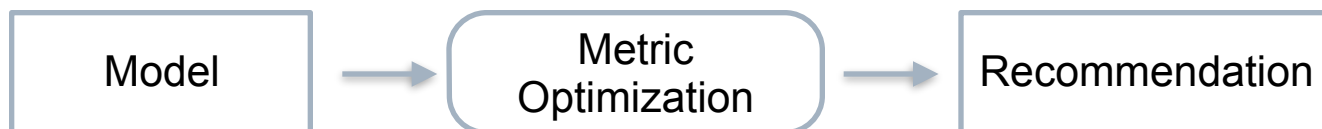
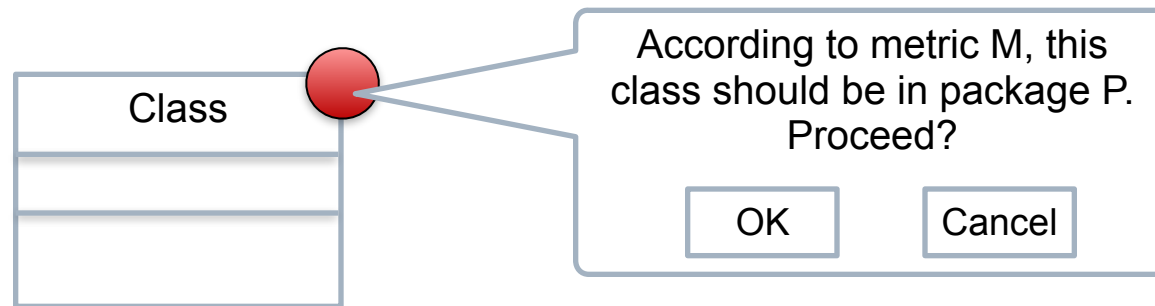
- Recommendation System (RSSE)
- Interaction based
- Multi-criteria optimization



# Floss Refactoring Recommendations

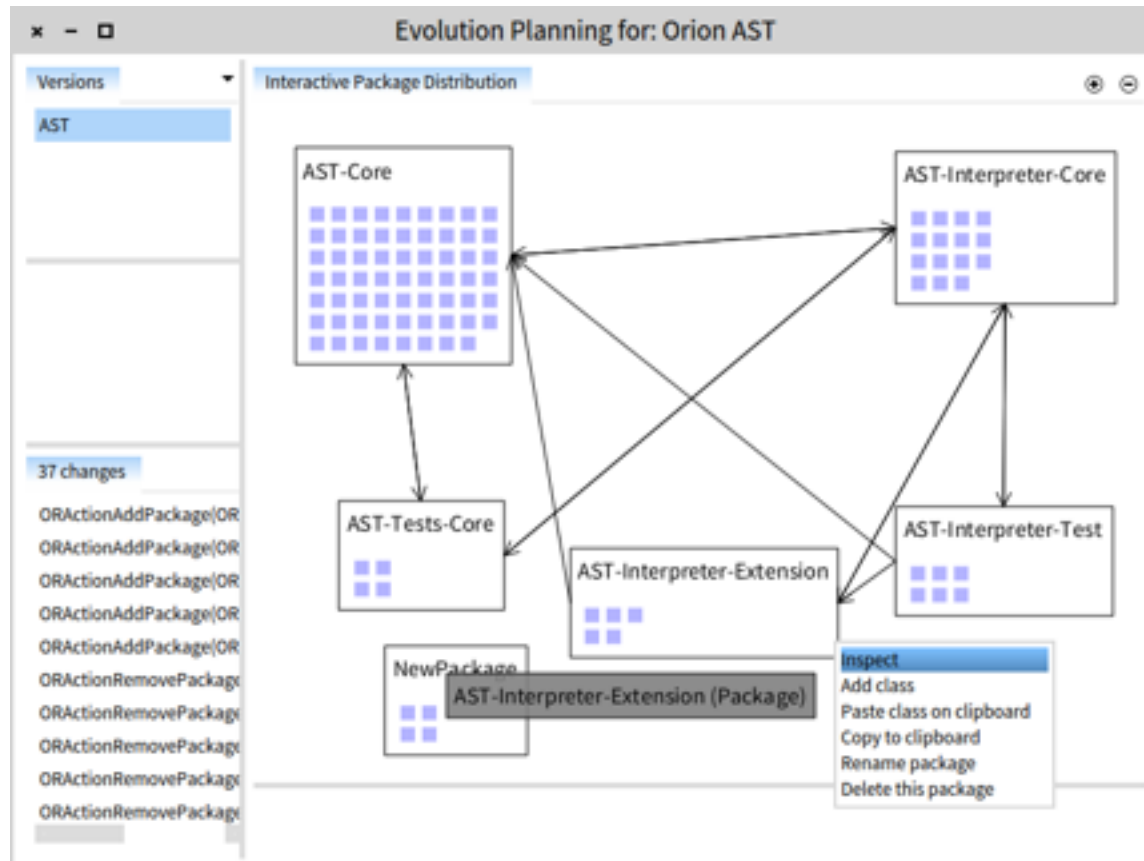
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- Framework for generating recommendations from software metrics.



# Evolution Planning

- Define a model as wished
- Add modules and dependency rules



# Current Status

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- Reading!
- Case Studies for Evolution Planning
- Define Recommendation Strategies

