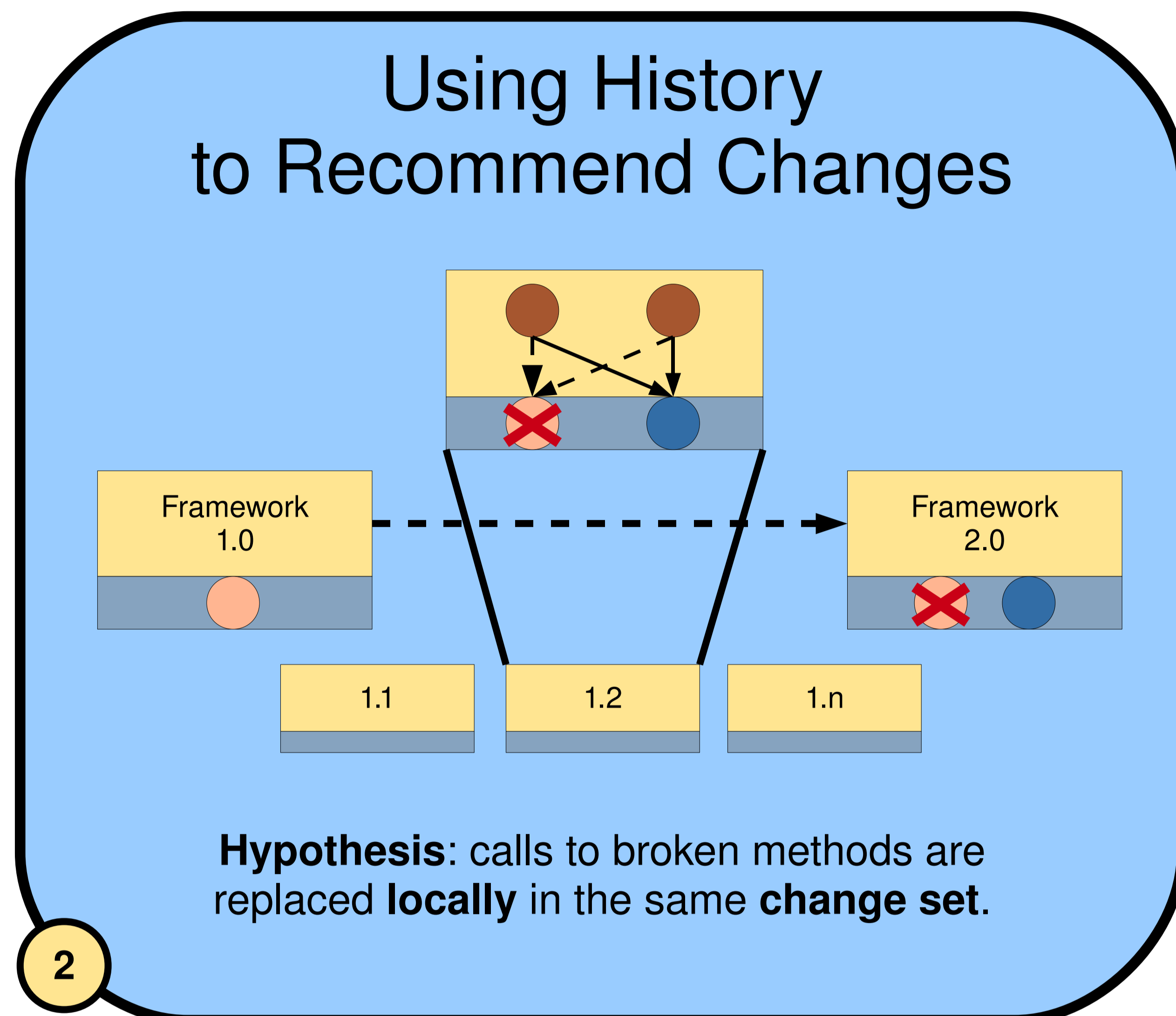
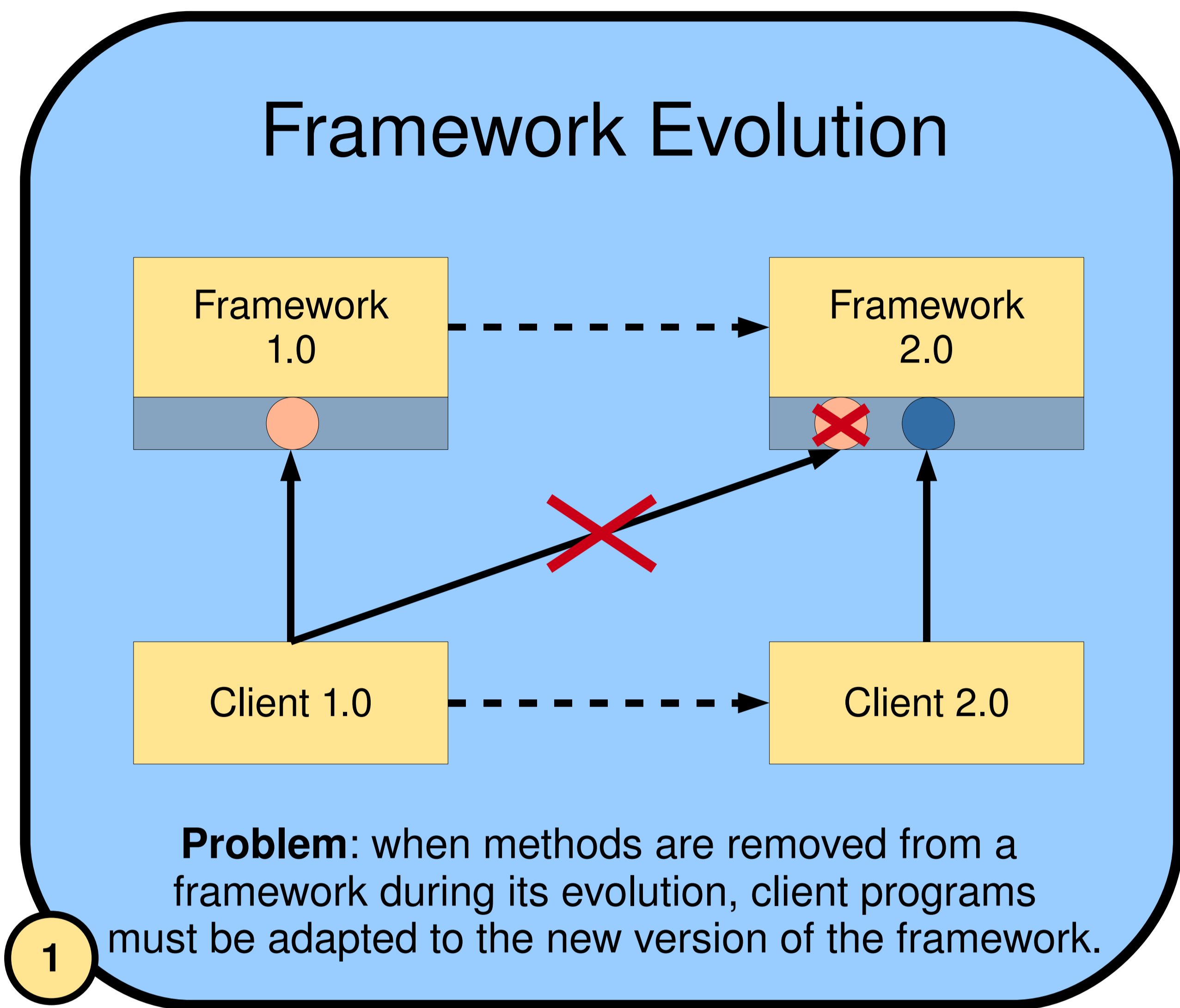


SemDiff: Analysis & Recommendation Support for API Evolution

Barthélemy Dagenais and Martin P. Robillard – McGill University
<http://www.cs.mcgill.ca/~swevo/semdiff/>

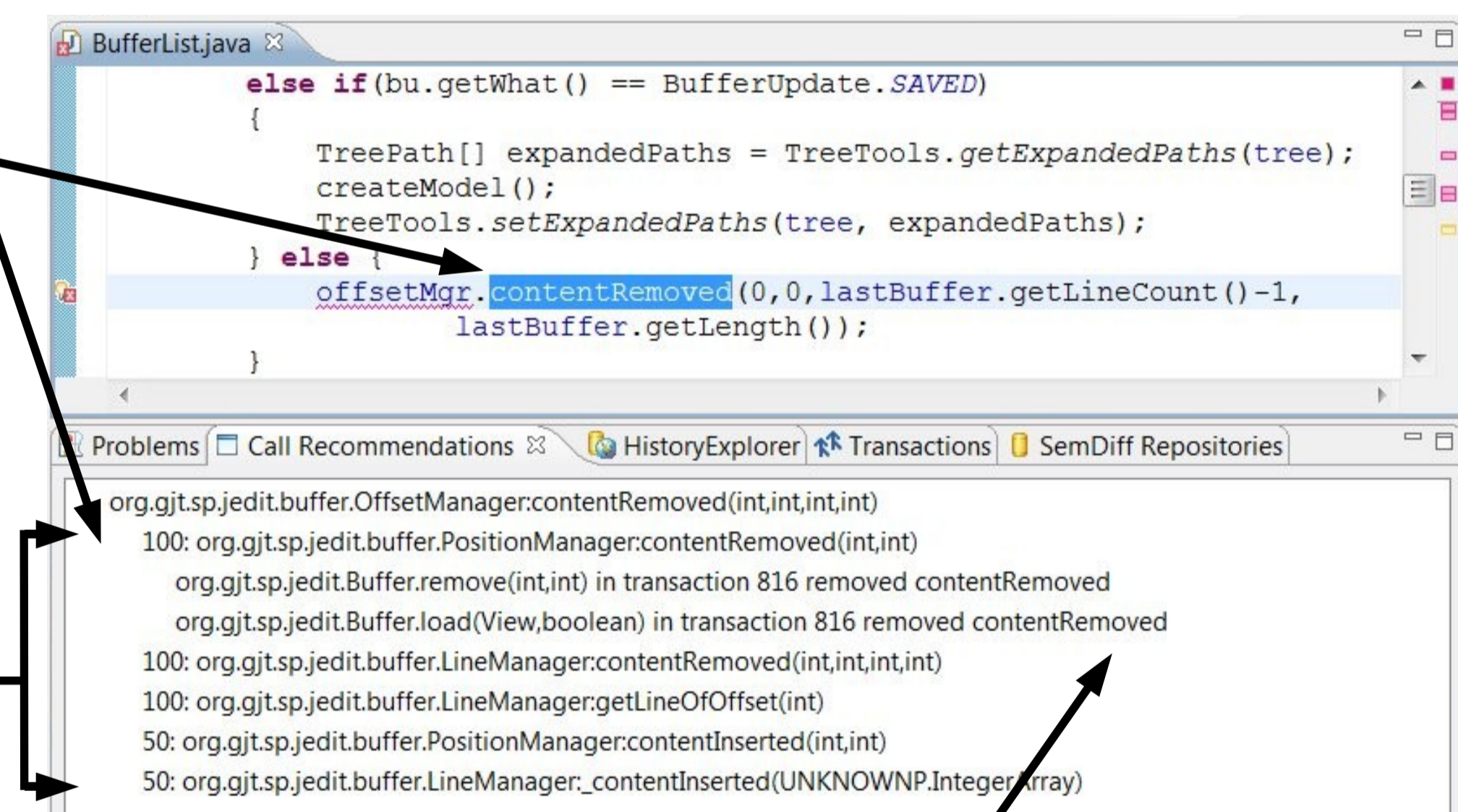


Requesting Recommendations

Easy Request: Just right-click on the broken method and let SemDiff recommend relevant replacements.

Many Alternatives:

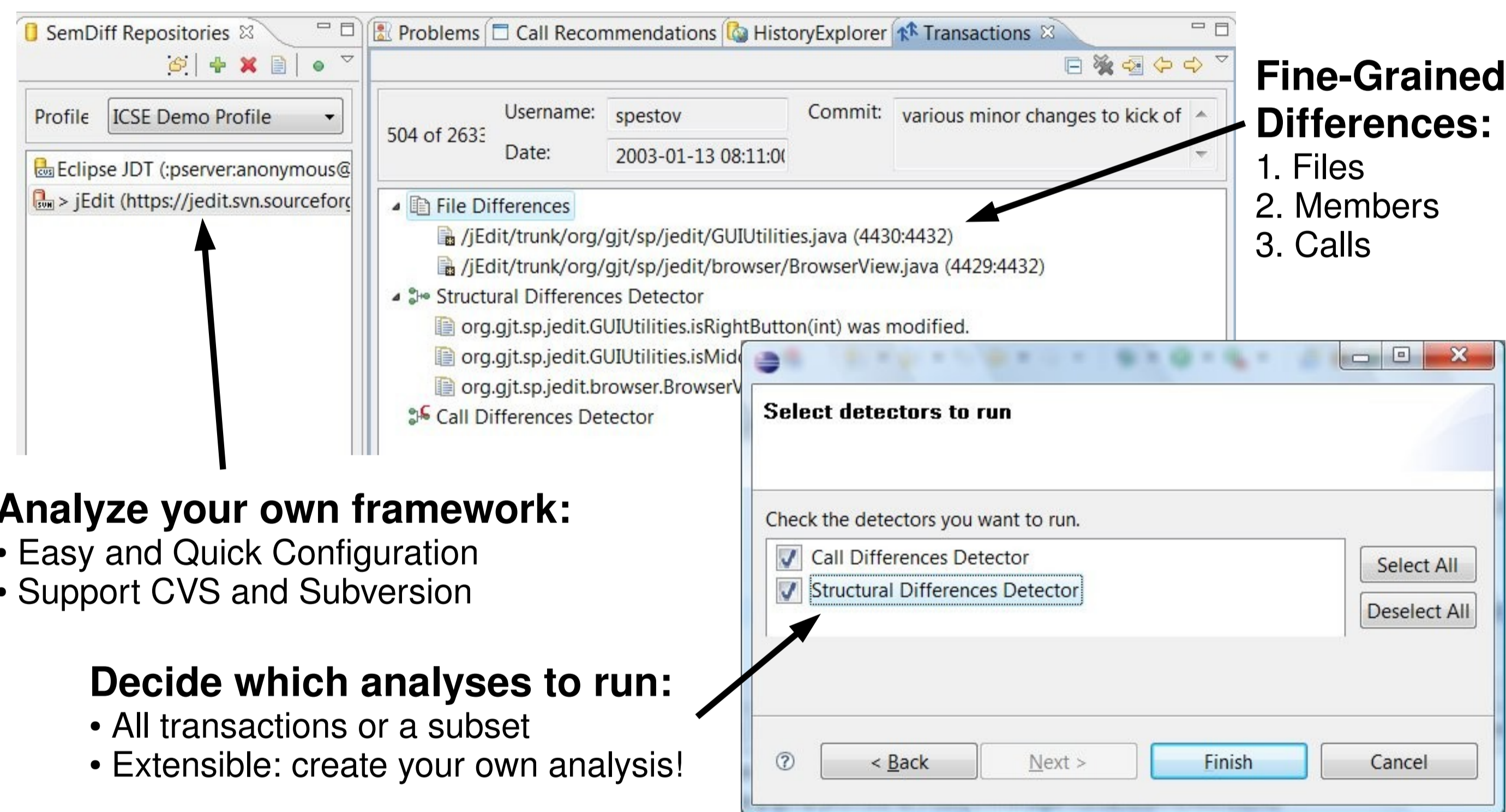
- SemDiff detects many-to-one changes.
- SemDiff recommends potential alternatives.



Understand the recommendation:

- Double-click on the explanation to see when the call was removed and how it was replaced.
- Right-click to see the transaction in which the change happened.

Analyzing Source Code History

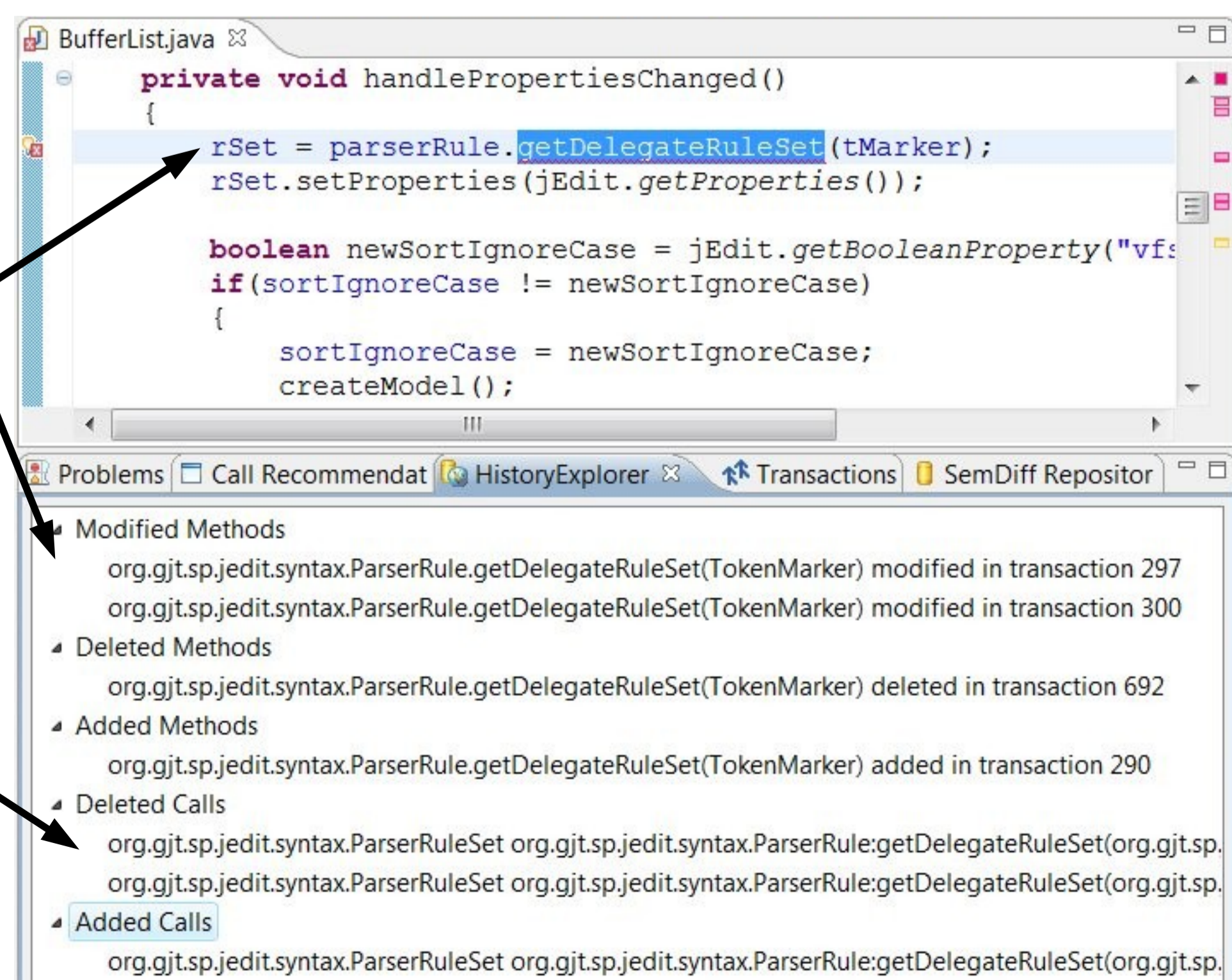


You can use SemDiff to analyze a framework's history and browse through its change sets.

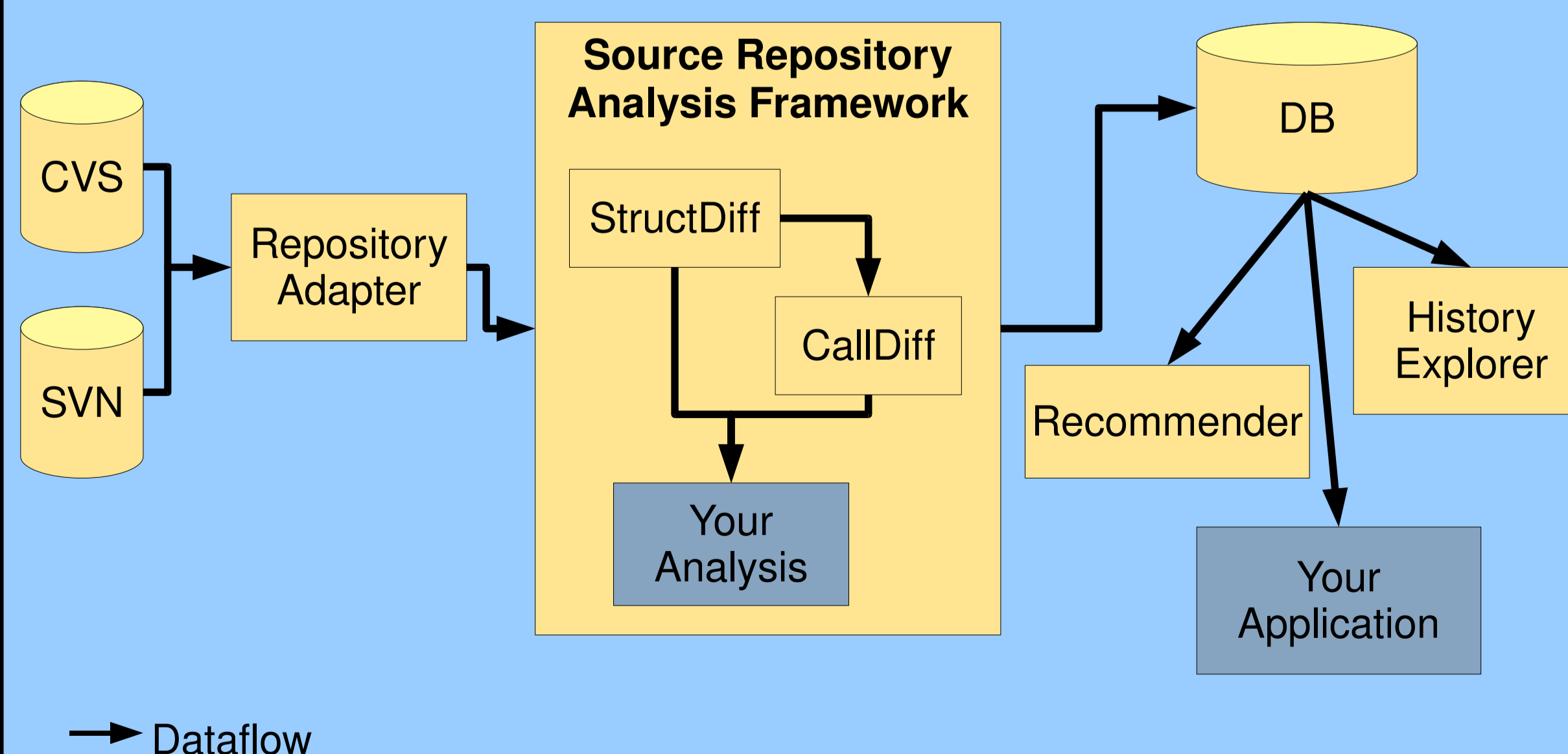
Navigating Source Code History with History Explorer

Powerful Search: Search for all references of a method in the framework's history.

Access the context: Double-click to open the transaction and see what led to this change.



An Extensible Research Platform



Leverage SemDiff fine-grained analyses to mine software repositories and develop your own analyses or history-based tool.