Observation 1: Statements are Hard to Select

Observation 2: Error Messages are Bad

Selection tools should:
- Be lightweight and unobtrusive
- Abstract away code formatting
- Help select meaningful program constructs (task dependent)
- Allow the programmer to use either the keyboard or mouse

Expressions of violations of refactoring preconditions should:
- Indicate the location of every error
- Indicate the amount of work required to recover
- Be easily distinguishable from one another
- Indicate errors as relations between program elements

Tools Available at http://multiview.cs.pdx.edu/refactoring

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