Pre-processing

Substitution rules (17)

<table>
<tr><th>Type</th><th>Description</th><th>Regular expression</th></tr>
<tr><td rowspan="2">Specific values (2)</td><td>0.0, 0.1f, etc.</td><td>\W(-)?[0-9]+(,[0-9]+)*((\.[0-9]+)?[a-z]*)\W</td></tr>
<tr><td>Member value of objects, e.g., Location.x</td><td>\W(^(java\.|javax\.|org\.))?([A-Za-z_]+\w+\.)+[a-z_]+[a-z0-9_]*[^\.A-Za-z0-9_]</td></tr>
<tr><td rowspan="4">Class methods and static members (4)</td><td>class methods, e.g., ClassA.func(Param1)</td><td>\W[A-Za-z_]+[A-Za-z_0-9]*(\.[A-Za-z_]+[A-Za-z_0-9])*(#[A-Za-z_]+[A-Za-z_0-9]*)?\([^()]*\)\W</td></tr>
<tr><td>Static member, e.g., Desktop.Action#OPEN</td><td>\W([A-Za-z_]+[A-Za-z_0-9]*(\.[A-Za-z_]+[A-Za-z_0-9])*)?(#[A-Za-z_]+[A-Za-z_0-9]*)[^A-Za-z0-9_()]</td></tr>
<tr><td>All upper case</td><td>\W(\w+\.)*([A-Z]+_)*[A-Z]+\W</td></tr>
<tr><td>Class name</td><td>\W([A-Za-z_]+\w+\.)*[A-Za-z_]*[A-Z]+\w+[^\.A-Za-z0-9_]</td></tr>
<tr><td rowspan="5">Expressions (11)</td><td>A - B</td><td>\W\w+((\s+-)|(-\s+)|(\s+-\s+))\w+\W</td></tr>
<tr><td>A + B</td><td>\W\w+\s*\+\s*\w+\W</td></tr>
<tr><td>A * B</td><td>\W\w+\s**\s*\w+\W</td></tr>
<tr><td>A..B</td><td>\W\(?\s*\w+\s*\)?\s*\.\s*\.\s*\(?\s*\w+\s*\)?\W</td></tr>
<tr><td>[A, B]</td><td>\W\[\s*\w+\s*,\s*\w+\s*\]\W</td></tr>
</table>

	[A..B]	\W\[\s*\w+\s*(\.\s*\.\s*)\s*\w+\s*\]\W
	A <\<= B <\<= C	\W\w+\s*<=?\s*\w+\s*<=?\s*\w+\W
	A >\>= B >\>= C	\W\w+\s*>=?\s*\w+\s*>=?\s*\w+\W
	From A to B	\W(from\s+)?\w+\s+to\s+\w+\W
	A != B	\W\w+\s*!=\s*\w+\W
	Enumeration expression	\W (\s*\w+\s*)(,\s*\w+\s*)+,?\s*or\s*\w+\W

Division rules of composite statements (12)

Type	Rule
FRAG statements (2)	FRAG -> SBAR
	FRAG –> IN + NP
SBAR statements (2)	SBAR –> IN(if) + S
	SBAR –> SBAR + CC + SBAR
S statements (2)	S -> S + CC + S
	S -> NP + VP
VP statements (3)	VP-> VP+CC + VP
	VP-> VBZ+ADJP/UCP
	VP-> VBZ + ADJP + ?
NP statements (1)	NP -> NP + CC + NP
ADJP statements (1)	ADJP -> ? + CC + ?
UCP statements (1)	UCP –> ? + CC + ?