



ANTLRWorks

Edit, visualize and debug ANTLR grammars

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What is ANTLRWorks?

- ▶ IDE for ANTLR 3
- Simplicity and ease-of-use in mind
- No expert knowledges in Unix commands
- Grammar rules visualization
- Interpreter and debugger
- Written in Java using Swing

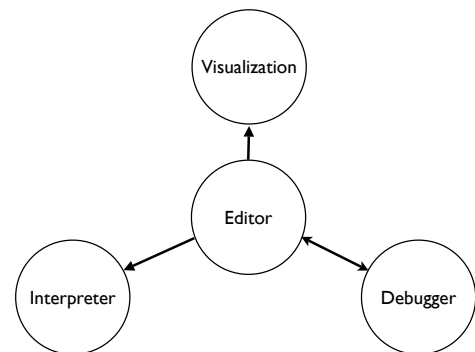
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Why ANTLRWorks?

- Validation of how easy it is to build tools for ANTLR 3
- Validation of the new debug protocol
- Language neutral
- Interpreter
- Not tied to a specific IDE

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Main components



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Editor

- Display DFA for any decision
- Ambiguous paths in syntax diagram
- Rules in tree view (grouping)
- Show generated lexer/parser code
- Insert rules from template
- Perform integration

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Editor - moving around

- Find & replace
- Find usages
- Go to definition
- Go to rule by partial name
- Go to line & character
- Analysis column - jump to any errors quickly

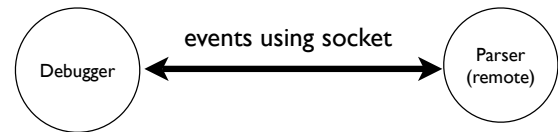
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Editor - refactoring

- Rename rules and tokens
- Replace literal with token label
- Remove left recursion
- Define rule
- “Tips” over underlined texts
- “Ideas” for common actions

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Debugger



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Debugger - features

- Local/remote debugger (language agnostic)
- Step by step (←, →, ⇐, ⇒)
- Dynamic parse tree
- Input text highlighting (consume, LT, resync)
- Grammar text highlighting
- Rules stack
- Events list

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A demo is worth a thousand words

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Q&(A)

- Version 1.0ea4 is now available
- www.antlr.org
- www.antlr.org/works/index.html
- jean_bovet@mac.com

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