Design Patterns

Interpreter Pattern

not-matthias

Contents

1   Description

One class for each symbol:

- Terminal

- Nonterminal

1.1   Terminal Symbols

1.2   Nonterminal Symbols

1.3   Abstract Syntax Tree

2   Purpose

2.1   When should it be used?

Should be used when:

- there's a language to interpret.
  - Represent statements as AST

- the grammar is simple.
  - Use parsers for a large class hierarchy.
  - Doesn't use an AST. Saves space and time.

- efficiency is not a critical concern.
  - More efficient when translating the parse tree to another form.

3 UML

4 Example