



TrollEdit

New way of source code editing

Overview

Introduction

Today editors usually use simple color highlighting without any sign of graphic enrichment features. However enriching the source code with graphic elements can be beneficial for the understanding of the structure of given code and thus lead to better understanding of its structure and meaning for the programmer. This basic observation is the driving idea behind TrollEdit.

Approach

Ako sa vytvara gramatika, že je to postavne na PG bezkontextovych gramatikach z kotrých je vytvarani AST strom, ktory nam umožňuje reprezentáciu textu formou blokov.

Application

TrollEdit is an experimental application based on multiplatform framework Qt. For parse source code and creating AST we are using simple a scripting language LUA.

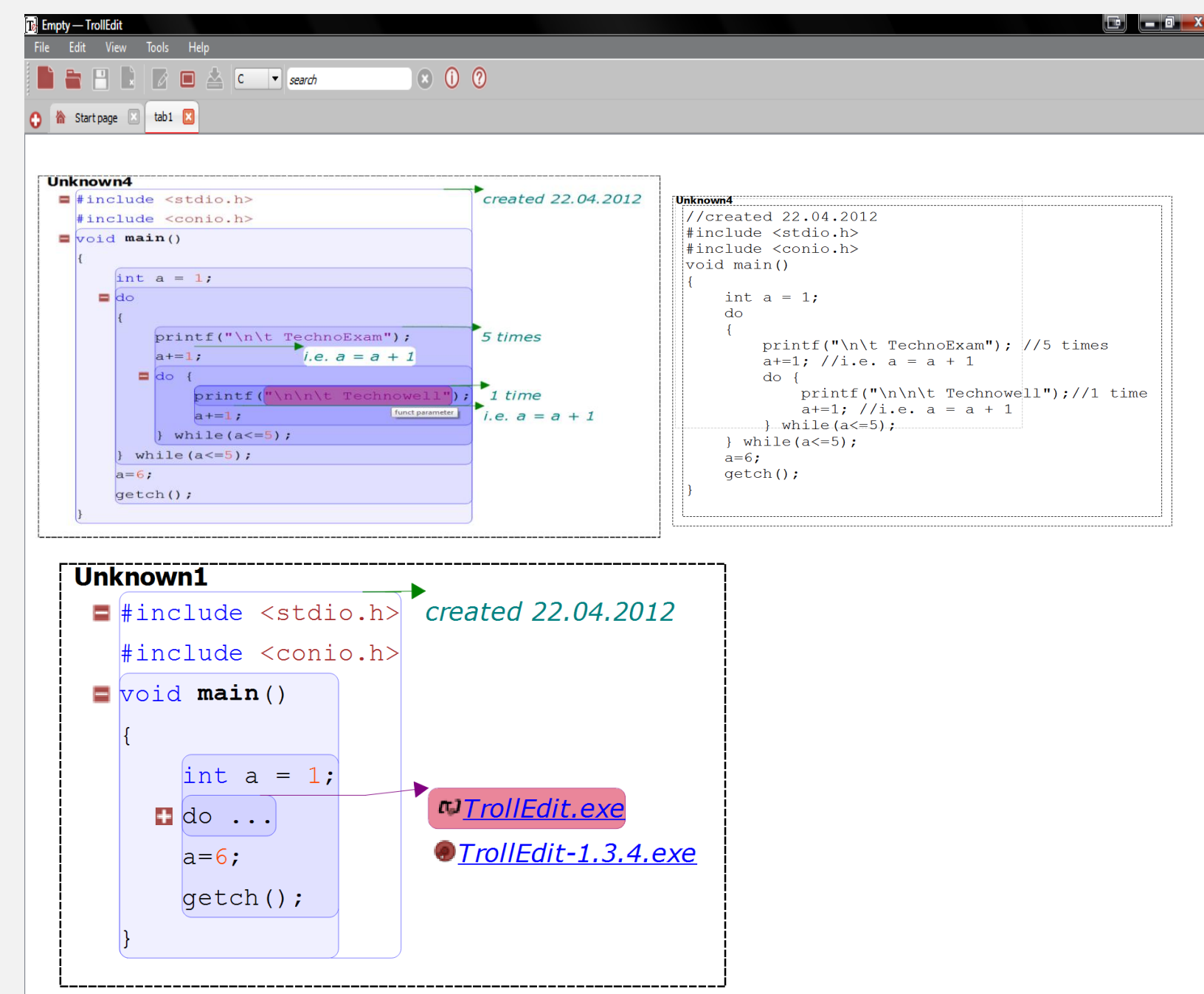
How to see source code classical a text editor

```
21
22 LanguageManager::LanguageManager(QString programPath)
23 {
24     this->programPath=programPath;
25     QFileInfoList grammars;
26     QDir dir = QDir(programPath + GRAMMAR_DIR);
27     grammars = dir.entryInfoList(QStringList(QString::fromLocal8Bit("*.lua")), QDir::Files | QDir::NoSymLinks);
28     QFileInfo defaultGrammar(programPath + DEFAULT_GRAMMAR);
29     QFileInfo configFile(programPath + CONFIG_FILE);
30     QFileInfo snippetFile(programPath + SNIPPET_FILE);
31
32     foreach (QFileInfo file, grammars)
33     {
34         if (file != defaultGrammar && file != configFile && file != snippetFile)
35         {
36             try
37             {
38                 Analyzer *a = new Analyzer(file.absoluteFilePath());
39                 a->readSnippet(snippetFile.absoluteFilePath());
40                 QStringList extensions = a->getExtensions();
41
42                 foreach (QString ext, extensions)
43                 {
44                     analyzers.insert(ext, a);
45                 }
46             }
47             catch (...)
48             {
49             }
50         }
51     }
52 }
```

We can this see better?

Yes, answer is TrollEdit

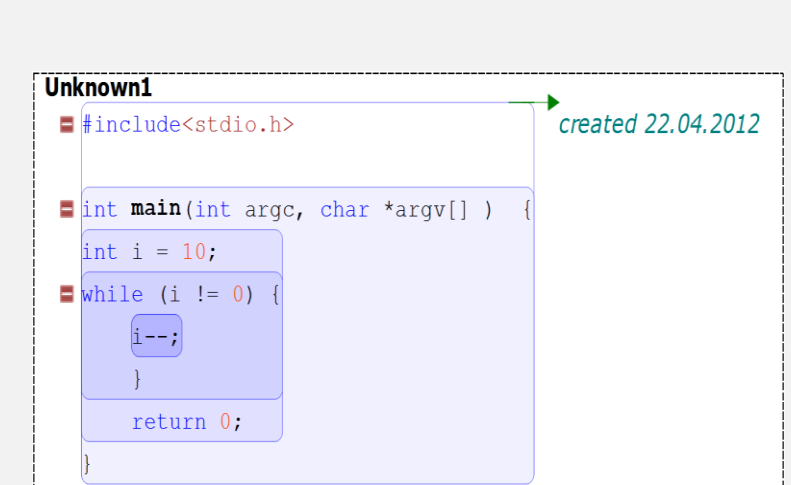
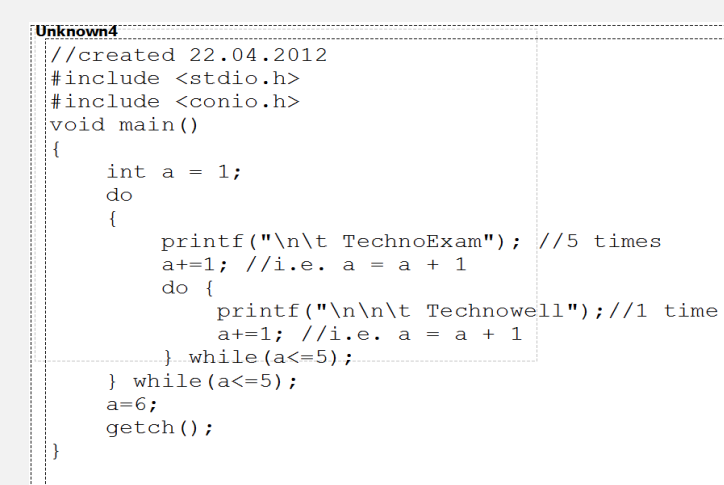
How to see source code TrollEdit



Why to used TrollEdit?

- Simple a easy using
- Code structure visualization as blocks
- More opened files in a workspace
- Selection and movement files after a workspace
- Insert files (Img. Link, etc.) into code

- Write documentation into code (Literate programming as D. Knuth)
- Can works in two modes as simple text and with graphical elements



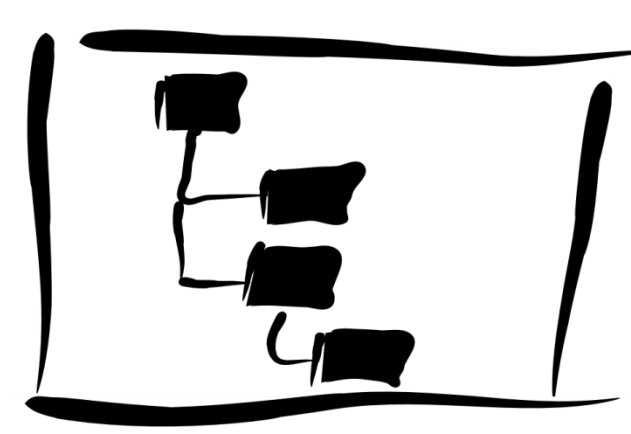
Grammars



Source

TrollEdit

text editor with graphical elements



AST



Source with graphical enhancements

Conclusion

Čo sa nam podarilo zhnutie t.j. niečoho noveho čo dopisal nexisutje. Na vyvoji nadalej prokračujeme a budeme radi ak sa knam pripojite do skupiny a pomôžete tak vytvoriť niečo originálne.

S pozdravom
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Used technology



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