



# TrollEdit

## Different approach 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

The core functionality of TrollEdit is based on the use of LPEG pattern matching library. Using this library we are able to parse source code according to its grammar into an abstract syntactic tree (AST). This data is then used to enhance the text visualization and so we are able to parse the content on any open file assuming that we have a matching language grammar.

#### Application

TrollEdit is a desktop application based on multiplatform framework Qt. Basically TrollEdit is an enhanced text editor developed as a real market product. It's strongest feature is based on graphical text enrichment based on semantically analyzed file content.

### How classical text editor see source code

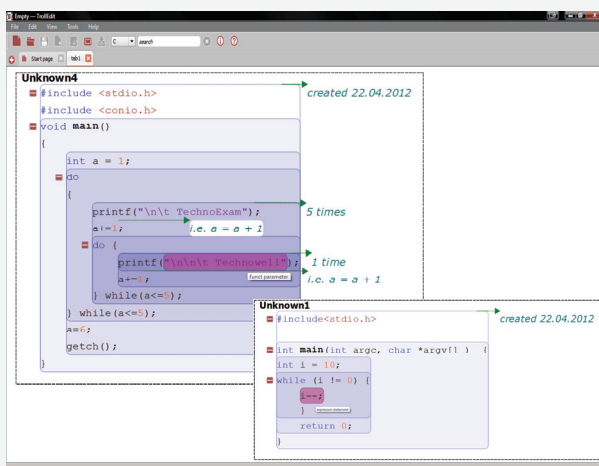
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LanguageManager::LanguageManager(QString programPath)
{
    this->programPath=programPath;
    QFileinfo grammars;
    QDir dir = QDir(programPath + GRAMMARS_DIR);
    grammars = dir.entryInfoList(QStringList("."), QDir::Files | QDir::NoSymLinks);
    QFileinfo defaultGrammar(programPath + DEFAULT_GRAMMAR);
    QFileinfo configFile(programPath + CONFIG_FILE);
    QFileinfo snippetFile(programPath + SNIPPET_FILE);

    foreach (QFileinfo file, grammars)
    {
        if (file != defaultGrammar && file != configFile && file != snippetFile)
        {
            try
            {
                Analyzer *a = new Analyzer(file.absoluteFilePath());
                a->readSnippet(snippetFile.absoluteFilePath());
                QStringList extensions = a->getExtensions();
                foreach (QString ext, extensions)
                {
                    analyzers.insert(ext, a);
                }
            }
            catch (...)
            {
            }
        }
    }
}

```

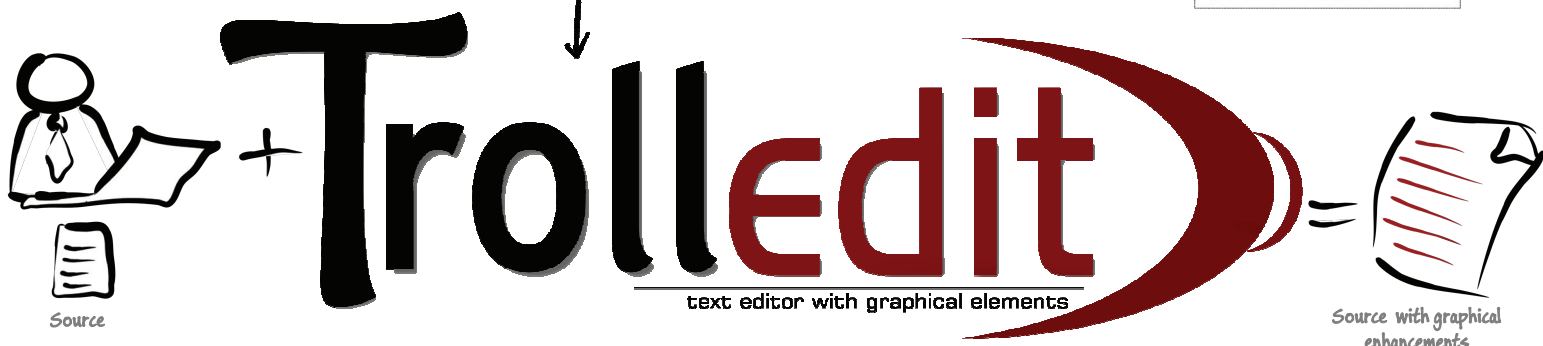
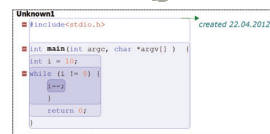
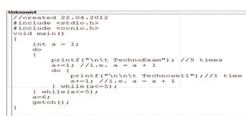
### How TrollEdit see source code



Can it be seen better?  
Yes, answer is TrollEdit

### Why to use TrollEdit?

- Simple and easy to use editor
- Code visualization as a structure of blocks
- More opened files in single tab -> more tabs
- Select and move files in tab
- Drag n drop whole blocks in and between files
- Insert files (img., Link, etc.) right into code
- Write documentation into code (Literate programming by D. Knuth)
- Work in two modes:  
as simple text <-> with graphical elements



### Conclusion

„Nothing is impossible when the work is also a hobby“

Our main goal to achieve is to create a real product, which will be a helpfull alternative to common text editors on market. We want to ensure that TrollEdit will be an original and very practical editor designated with extensibility, efficiency and flexibility in mind.

ToDo list management, File trees, shortcuts configuration, parallelized run of text analysis and new appealing user interface are just some of the features witch were recently implemented into editor and it's still not over. We can always add new grammar for support of new languages without any invasion to editor, or create module to extend its core functionalities even more.

Despite the facts work on editor is still in progress so feel free to contribute so we can create even better TrollEdit.

Team Innovators

