

FileEditor

FileEditor 2.0

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Introduction

FileEditor provides a programmable only text file editor. No gui is available. It supplies most of the features you expect from an editor including selections.

It is useful for advanced code generation and first version created a couple of years ago was made to script a set of special refactorings using BeanShell. It has now been updated and more heavily tested, and released as open source in hope it can be useful for others.

Please Note: A previous version of this utility exists on <http://fileeditor.sf.net/>. As of version 2.0 this has moved to github and also changed package from se.biltmore.... to se.natusoft.... The package change was required due to a bad decision by me to use the package name of a company I was part owner of, but in the end didn't work out as intended and I left. Thereby I have changed package to my own company name, which I really should have used from the beginning looking in the hind mirror :-).

Maven Usage

If you are using maven, add the following to your pom:

```
<project>
...
<repositories>
...
  <repository>
    <id>maven-natusoft-se</id>
    <name>Natusoft maven repository</name>
    <url>http://maven.natusoft.se/</url>
  </repository>
</repositories>
...
</project>
```

Then add the following dependency:

```
<dependency>
  <groupId>se.natusoft.tools</groupId>
  <artifactId>FileEditor</artifactId>
  <version>2.0</version>
</dependency>
```

Usage

Each instance of `TextFileEditor` can edit one `TextBuffer`. The default constructor creates a `TextFileBuffer` instance. Text buffers can however be gotten and set on a `TextFileEditor` instance, so you can really edit as many buffers you want with the same `TextFileEditor` instance.

`TextBuffer` is an interface implemented by `TextFileBuffer`. The idea was that you could wrap some other object and make it editable (as long as it handles text). I have no idea if that is useful or not, but it was a simple thing to do.

The editor always has a current position within the editor. It starts at 1,1 (column,line). Column and line numbers are 1 based. There is a `Position` class that represent a position that some methods use. There are methods to move the current position up, down, right, and left.

All find methods move the current position to the first character of the found text on success. They also return a boolean to indicate if the find was a success or not so that you can do `if()` on it.

Example:

```
if(editor.find("start")) {
    editor.startSelection();
    editor.find("end");
    editor.endSelection();
    editor.replaceSelectionWithTextBuffer(newTextBuff);
}
```

You can check if the current position is on first column, first line, last column, or last line.

All `find*()` methods search criteria are regular expressions.

You can mark a text block as selected. You can do `selectToMatching(char start, char end)` which will select to the next 'end' character at level 0. Level is incremented on start and decremented on end.

Example:

```
selectToMatching('(', ')');
```

You can find and replace text within the buffer. You can replace a selection. You can replace a line.

You can insert lines. You can insert another file by loading it into a separate buffer and then inserting the buffer.

You can delete words, lines, and selections.

You can get a line or a word.

Creating an editor and loading a file into it:

```
TextFileEditor editor = new TextFileEditor();
editor.load("some.file");
...
editor.save();
```

If you want to create an editor instance, pass it to some user script that will manipulate the text in the editor, but want to inhibit the script to load other files or to save the changes, do:

```
editor.setAllowLoadSave(false);
```

But remember to set it back to true again before you save it! This is of course not fail safe since the script can also call `setAllowLoadSave()`.

Here is an example of usage copied from another tool where I use `FileEditor` to update source code:

```
if (!editor.find("import " + annotationsPkg + ".")) {
    System.out.println("    Adding 'import " + annotationsPkg + ".*'");
    if (!editor.find("^import")) {
        if (editor.find("package")) {
            editor.insertLine("");
        }
    }
    else {
        editor.findLast("^import");
    }
    editor.insertLine("import " + annotationsPkg + ".*;");
}

editor.moveToTopOfFile();
if (!editor.find("import " + enumsPkg + ".Source")) {
    editor.find("import " + codeLicMgrPkg);
    System.out.println("    Adding 'import " + enumsPkg + ".Source'");
    editor.insertLine("import " + enumsPkg + ".Source;");
}
```

There is not much more to say about this. See the [javadoc](#), it shows all available functionality.

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The markdown CSS for the generated html document is based on Florian Wolters [markdown.css](#).

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