

nowebdoc-gems: Code Extractor (v0.2.2)

User Manual — GEMS/Depto. de Computação, PUC-SP

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Introduction

Knuth (1984) introduced an approach to programming called *literate programming*: logic explanation interspersed with code chunks. Years later, Ramsey (1994) designed **noweb**, a simple and extensible tool for literate programming. However, it is difficult to install **noweb** in my academic environment due to the dependencies of several libraries and administrative restrictions. When I decided to search for **noweb** alternatives, I found several good ones, especially: **leo** (Ream 2001), **SimpleLit** (Rock 2013) and **noweb.py** (Aquino 2015). The first one is too sophisticated for my needs. The second one uses a different markup language for code annotation, but was very suggestive in ideas. The last one contributed with interesting indications for simplifying the document processing.

But I need more than literate programming only! I need a tool that integrates with **pandoc** (MacFarlane 2006) and/or the **listings** LaTeX package (Moses and Hoffmann 2006): **nowebdoc-gems** was born! I choose to develop **nowebdoc-gems** with Netbeans and ANTLR4.

1 Instalation

The next two scripts are found in the root path of this project. The tool activation command follows:

```
<<nowebdoc-gems>>=  
#!/bin/bash  
java -jar /usr/local/lib/nowebdoc-gems/nowebdoc-gems.jar $*
```

This script installs the tool in `/usr/local/lib` and copies the activation command in `/usr/local/bin`:

```
<<install-nowebdoc-gems>>=  
#!/bin/bash  
rm -fR /usr/local/lib/nowebdoc-gems  
mkdir /usr/local/lib/nowebdoc-gems  
cp ../nowebdoc-gems/dist/nowebdoc-gems.jar /usr/local/lib/nowebdoc-gems  
  
rm -fR /usr/local/lib/nowebdoc-gems/lib  
mkdir /usr/local/lib/nowebdoc-gems/lib  
cp ../nowebdoc-gems/dist/lib/* /usr/local/lib/nowebdoc-gems/lib  
  
cp ../nowebdoc-gems /usr/local/bin  
chmod u+x /usr/local/bin/nowebdoc-gems
```

The final step copies a configuration file in the home directory:

```
rm -fR ~/cfg/nowebdoc-gems  
mkdir ~/cfg/nowebdoc-gems  
cp ../nowebdoc-gems.cfg ~/cfg/nowebdoc-gems
```

Bibliography

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