# License

The eyoung is open source free software, using the GNU GENERAL PUBLIC LICENSE Version 2.

# How to get the code?

The source code of the eyoung is hosted on the github.com. The project URL is:

*https://github.com/eyoung-father/eyoung.git*

You can use *svn* or *git* to download the source code. Run following commands:

**For SVN User:** *svn checkout https://github.com/eyoung-father/eyoung.git eyoung*

**For GIT User:** *git clone https://github.com/eyoung-father/eyoung.git*

The latest version of the eyoung is 1.0, and the branch URL is:

*https://github.com/eyoung-father/eyoung.git/branches/EYOUNG\_R1*

# How to compile the code?

To compile the source code, you need do:

1. Install the compiling tools, which are in the directory *tool*:
   1. Install software m4:

*tar xzf m4-1.4.16.tar.gz*

*cd m4-1.4.16*

*./configure*

*make*

*make install*

* 1. Install software bison:

*tar xf bison-2.7.tar.gz*

*cd bison-2.7*

***patch data/yacc.c ../yacc.c.diff***

*./configure*

*make*

*make install*

* 1. Install software flex:

*tar xf flex-2.5.37.tar.bz2*

*cd flex-2.5.37*

*./configure*

*make*

*make install*

* 1. Install library libelf:

*cd libelf-0.8.9.tar*

*./configure*

*make*

*make install*

1. Code pre-processing:

*make prepare*

1. Compile the code:

Because a JIT compiler is embedded in the eyoung system, the eyoung is not independent of all CPU architectures. The eyoung version 1 only support 3 CPU architectures: X86-32, X86-64, ARM V7.

For X86-32, to compile the codes, please run:

*make ARCH=i386*

For ARM V7, please run:

*make ARCH=arm*

For X86-64, please run:

*make ARCH=x86-64*

1. Copy the libraries into the directory included in environment variable $LD\_LIBRARY\_PATH:

*cp build/lib/\*.so [ld-path]*

# How to run the demo?

1. Compile demo:
   1. Compile the dependent libraries.
   2. Open the director libdecoder/http/testsuite, and run make:

cd libdecoder/http/testsuite

make

1. Run the demo:

./http\_xss http\_xss.ey case/req-15.msg

* The program http\_xss is compiled from source code file demo\_http\_xss.c. The source code file shows how to use the APIs of the eyoung system. For details, please refer to <<Programming Guide>>.
* The http\_xss.ey is a signature file, which includes a signature for detecting HTTP Crossing Site Script (XSS) attacks. The file shows how to write eyoung signatures. For details, please refer to <<Signature Specification>>.
* The req-15.msg is a simulation of a HTTP POST request, in which there is a HTTP XSS attempt.

# Document

All the documents are in the directory *doc*. Document <<Programming Guide>> shows the details of the eyoung, such as concept, programming model, APIs etc. Document <<Signature Specification>> introduces the eyoung signature format and how to write powerful signatures.

# Contact

If you have any idea or find bugs, please contact me: [eyoung.father@gmail.com](mailto:eyoung.father@gmail.com)