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# Source Code Highlight Filter

Revision 8.0.0

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The AsciiDoc distribution includes a source code syntax highlight filter (`source-highlight-filter.conf`) which uses GNU source-highlight [<http://www.gnu.org/software/src-highlite/>]. GNU source-highlight generates nicely formatted source code for most common programming languages (see the examples below).

## Installation

As a prerequisite you will have installed and tested GNU source-highlight [<http://www.gnu.org/software/src-highlite/>]. See Appendix A for Kubuntu installation.

Now install the AsciiDoc filter:

1. Copy the filter (`./examples/source-highlight-filter/source-highlight-filter.conf`) to one of the standard AsciiDoc filter locations — typically `/etc/asciidoc/filters/` or `~/.asciidoc/filters/`.



### Warning

As will all filters, before installing, you should verify that they can't be coerced into generating malicious output or exposing sensitive information.

2. Test it by converting this file to HTML with AsciiDoc:

```
$ cd ./examples/source-highlight-filter
$ asciidoc source-highlight-filter.txt
```

## DocBook Output Definition file



### Note

As of Source-highlight 2.3 the AsciiDoc DocBook output definition file has been included in the Source-highlight distribution so you can skip this section if you have version 2.3 or greater.

Source-highlight 2.2 does not ship with DocBook output definition files. If you want to generate DocBook instead of HTML the following simple DocBook output definition file will do the trick:

```
extension "xml"

bold "<emphasis role=\"strong\">$text</emphasis>"
italics "<emphasis>$text</emphasis>"

translations
"&" "&";
"<" "<";
">" ">";
end
```

To install it:

1. Name it `docbook.outlang` and copy it to the source-highlight configuration files directory (typically `/usr/local/share/source-highlight/`).
2. Add the following line to `/usr/local/share/source-highlight/outlang.map`:

```
docbook = docbook.outlang
```

## Examples

### Example 1. Python code snippet

This source-highlight filtered block:

[illegible]

Renders this highlighted source code:

```
''' A multi-line
comment.'''
def sub_word(mo):
    ''' Single line comment.'''
    word = mo.group('word')      # Inline comment
    if word in keywords[language]:
        return quote + word + quote
    else:
        return word
```



```
00027:  [true, false].cycle([0, 1, 2, 3, 4]) do |a, b|
00028:    puts "#{a.inspect} => #{b.inspect}"
00029:  end
00030: end
```

## A. Installing source-highlight 2.2 on Kubuntu 5.0.4

The 5.0.4 repository only had the older version 1.6.3 so I downloaded version 2.2 source and compiled — but first had to install boost regular expression libraries:

```
# apt-get install libboost-regex1.31.0
# apt-get install libboost-dev
# apt-get install libboost-regex-dev
# apt-get install exuberant-ctags
```

Download, compile and install source-highlight:

```
$ tar -xzf source-highlight-2.2.tar.gz
$ cd source-highlight-2.2
$ ./configure
$ make
$ su
# make install
```