



The Shorte Language

Reference Manual

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Revision History

Revision History		
Revision	Date	Description
1.0.0	08 July, 2013	Initial draft of the Shorte Reference Manual
1.0.58	15 Oct, 2013	Updated the documentation to describe preliminary install instructions, the new @h and @xml tags and the procedure to assign wikiwords to headings.



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1.0: About the Shorte Language

The Shorte language is a text based programming language used to generate documentation in a format that is familiar to writing source code. It supports:

- include files for modularizing a document
- conditional includes and conditional text
- easy revision control and diffing of documentation
- cross referencing of C source code

1.1.0: Why another Language?

I started this project about two years ago because I wasn't happy with other markups like reStructuredText. There are a lot of really good markup tools out there but I decided to try my hand and creating my own since I could easily extend it and make it do what I wanted.

I wanted a markup language similar to HTML but not as verbose where I could sections within a document and have optional modifiers or attributes on tags to have more control over the document.

I also wanted the tool to be able to automatically cross reference my source code and pull it in similar to Doxygen but I found doxygen hard to format quite like I wanted.

1.2.0: Document Structure

Shorte documents generally end with a .tpl extension and follow the format

```
001 # Document heading here
002 @doctitle My Title
003 @docsubtitle My Subtitle
004 ...
005
006 # The beginning of the body
007 @body
008 @h1 Some title here
009 Some text here
010 ...
```

1.3.0: Shorte Comments

Shorte currently only supports single line comments using the # character at the beginning of a line.



```
001 # This is a single line comment
002 # and a second line to the same single line comment
003 This is not a comment
```

If you want to use the `#` character elsewhere in the document it should normally be escaped with a `\` character. This is not necessary inside source code blocks such as `@c`, `@java`, `@python`, etc.

1.4.0: Conditional Text

The Shorte language supports two types of conditional text

- PHY style inline blocks
- conditionals using the `if="xxx"` attribute on tags

1.4.1.0: PHY Style Code Blocks

These blocks of code are similar to the inline PHY syntax. You use the `<? ... ?>` syntax to inline a block of Python code. Any output must get assigned to a variable called **result** which gets return in its expanded form. In this way you can conditionally generate text or use Python to create documentation.

Variables can be passed to the interpreter using the `-m` command line parameter.

```
001 <?
002 result = ''
003 if(1):
004     result += 'This is some *bold text* here'
005 if(0):
006     result += 'But this line is not included'
007 ?>
```

When output you will see something like:

This is some **bold text** here

1.4.2.0: Conditional Attributes

Conditional test is also supported using the `if=` attribute on a tag. For example:

```
001 # Include this table
002 @table: if="1"
003 - Col 1 | Col2
004 - Data1 | Data 2
005
006 # But not this table
007 @table: if="0"
008 - Col 3 | col 4
009 - Data 3 | Data 4
```

will expand to:

Col 1	Col2
Data1	Data 2

As will the inline code blocks you can specify variables to pass to the **if** text to evaluate using the **-m** command line paramter.

1.5.0: Include Files

Shorte supports include files. There are two tags, `@include` and `@include_child` which are used to include files.

They can be included anywhere in the body of the document.

```
001 @body
002 @include "chapters/chapter_one.tpl"
003 @include "chapters/chapter_two.tpl"
004
005 @include: if="ALLOW_CHAPTER3 == True"
006 chapters/chapter_three.tpl
007
008 # Here we'll use the @include_child tag since
009 # the @include tag normally breaks the flow of
010 # conditional statements. By using @include_child
011 # this file will only be included if ALLOW_CHAPTER3 == True
012 @include_child "chapters/child_of_chapter_three.tpl"
```



Note:

Shorte currently can't handle include paths. The include path has to be a sub-directory where the top level file is included. Eventually support for include paths will be added.

1.6.0: Inline Formatting

TBD: Add description of this section

1.7.0: Shorte Tags

Shorte uses the `@` character as a simple markup character. Wherever possible it attempts to avoid having an end character to make the document more readable and simplify typing. The document is entered by the use of tags that have the syntax `@tag`.

The following table describes the tags currently supported by Shorte:



Shorte Supported Tags	
Tag	Description
Document Metadata (only in document header)	
@doctitle	The title associated with the document
@docsubtitle	The subtitle associated with the document
@docversion	The version associated with the document
@docnumber	The number associated with the document
@docrevisions	The revision history associated with the document
Document Body	
Heading Tags	
@h1	A top level header similar to H1 in HTML
@h2	A header similar to H2 in HTML
@h3	A header similar to H3 in HTML
@h4	A header similar to H4 in HTML
@h5	A header similar to H5 in HTML
Text Entry Tags	
@text	A document text block
@p	A paragraph similar to the P tag from HTML
@pre	A block of unformatted text similar to the PRE tag from HTML
Includes	
@include	This tag is used to include another file (breaks conditional cascade)
@include_child	This tag is used to include a child file (supports conditional cascade)
Images and Image Maps	
@image	An inline image
@imagemap	Include an HTML image map
Lists and Tables	
@ul	An un-ordered list
@ol	An ordered list
@table	A table
Notes, TBDs and Questions	
@note	A note
@question	A question
@tbd	A To Be Determined block
@questions	A list of questions
Structures and Functions	
@define	A C style #define
@enum	An enumeration



@vector	Similar to @struct but generates a bitfield
@struct	A C style structure
@prototype	C function prototypes
@functionsummary	A function summary
@typesummary	A type summary
Source Code Tags	
@c	A block of C code
@d	A block of D code
@bash	A block of bash code
@python	A block of python code
@sql	A block of SQL code
@java	A block of Java code
@tcl	A block of TCL code
@vera	A block of Vera code
@perl	A block of Perl code
@code	A block of unknown source code
@shorte	A block of shorte code
@xml	A block of XML code
Other Tags	
@shell	TBD
@inkscape	Include an SVG created in Inkscape
@checklist	Generate a checklist
@acronyms	A list of acronyms
@embed	An embedded object (HTML only)
Sequence Diagrams	
@sequence	Generate a sequence diagram
Test Case Definitions	
@testcase	A test case description
@testcasesummary	A test case summary



2.0: Installation Instructions

2.1.0: Installing on Windows

To install on Windows the easiest thing to do is to download a pre-compiled build of Shorte. This uses Py2exe to generate an executable version of the tool rather than requiring Python be installed on the system. The latest windows build can be downloaded from:

<http://home-ott/~belliott/projects/shorte/releases/win32>

2.2.0: Installing on Linux

2.2.1.0: From a pre-built Binary

The latest 64 bit linux build can be downloaded from: from:

<http://home-ott/~belliott/projects/shorte/releases/linux64>

2.2.2.0: From Source

To install from sources several prerequisites are required. They are shown in the following table:

Installation prerequisites		
Tool	Tool Version	Description
GCC	3.4 or later	A compiler used to compile the cairo plugin for Python
Make	3.81 or later	In order to run the makefile associated with the cairo plugin
Cairo	1.11 or later	Cairo is required for generating images such as structure definitions or sequence diagrams.
SWIG	2.0 or later	SWIG is required in order to build the cairo plugin for Python.
Python	2.6 or 2.7	Shorte is built in Python. Version 2.6 or later is required but 3.x is currently not supported.



Py2exe	Version for Python	This tool is used to generate
--------	--------------------	-------------------------------

2.3.0: Changing the Path to LibreOffice/OpenOffice

In order to generate PDF documents it is necessary to modify the shorte.cfg file to setup the path to OpenOffice/LibreOffice. This may be done the following field in the config file:

```
001 # Paths to open office swriter
002 path.oowriter.win32=C:/Program Files/LibreOffice 4/program/swriter.exe
003 path.oowriter.linux=/home/belliott/libreoffice/opt/libreoffice4.1/program/swriter
004 path.oowriter.osx=/Applications/LibreOffice.app/Contents/MacOS/soffice
```

2.4.0: Setting up LibreOffice/OpenOffice

Shorte currently uses LibreOffice or OpenOffice for generating PDF or ODT documents. To do this it runs a conversion script convert_to_pdf.odt. This script handles updating the table of contents and converting the document to a PDF.

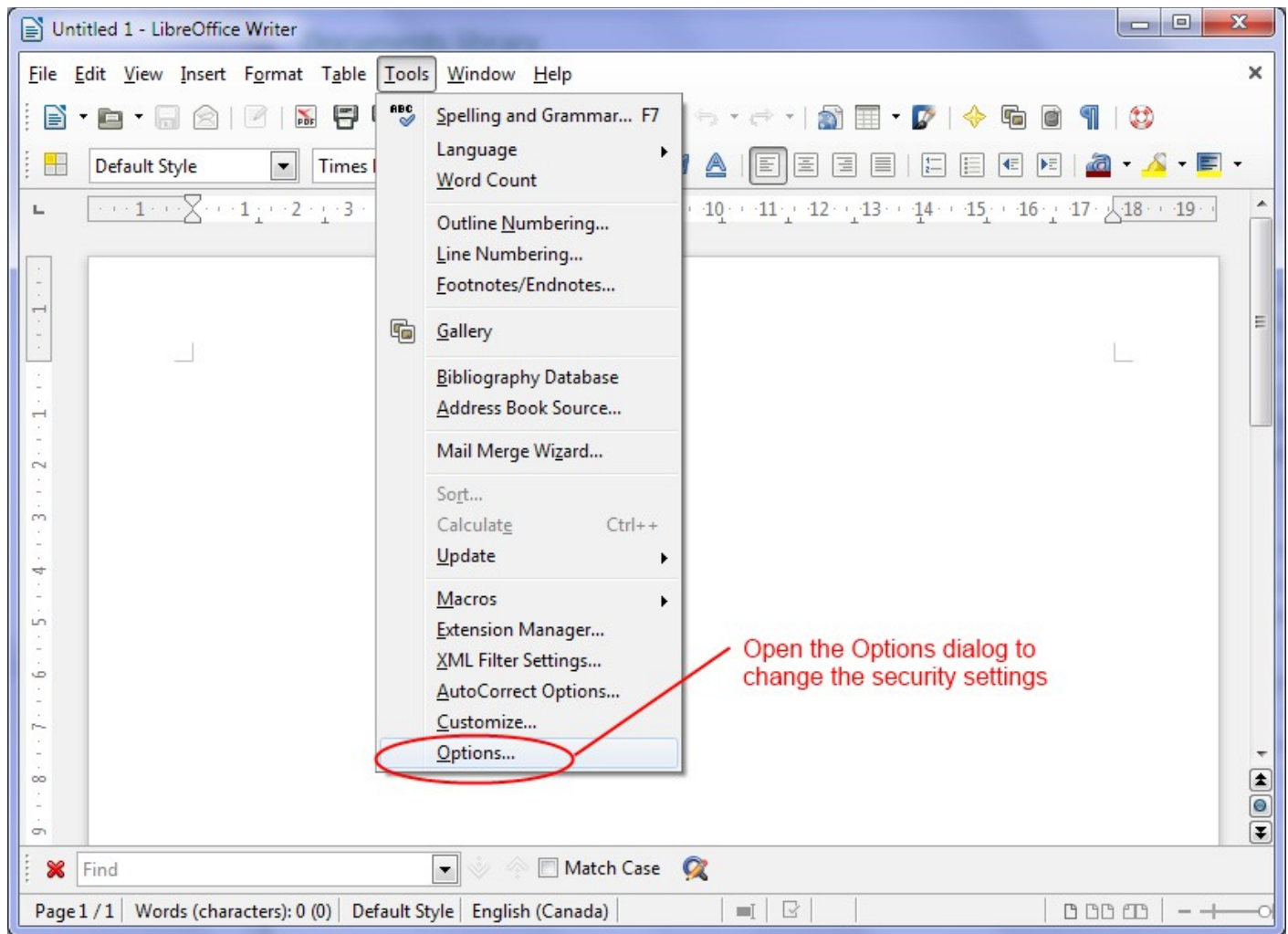
To run the script OpenOffice/LibreOffice must be setup to run scripts from the following directory:

```
${path_to_shorter}/templates/odt
```

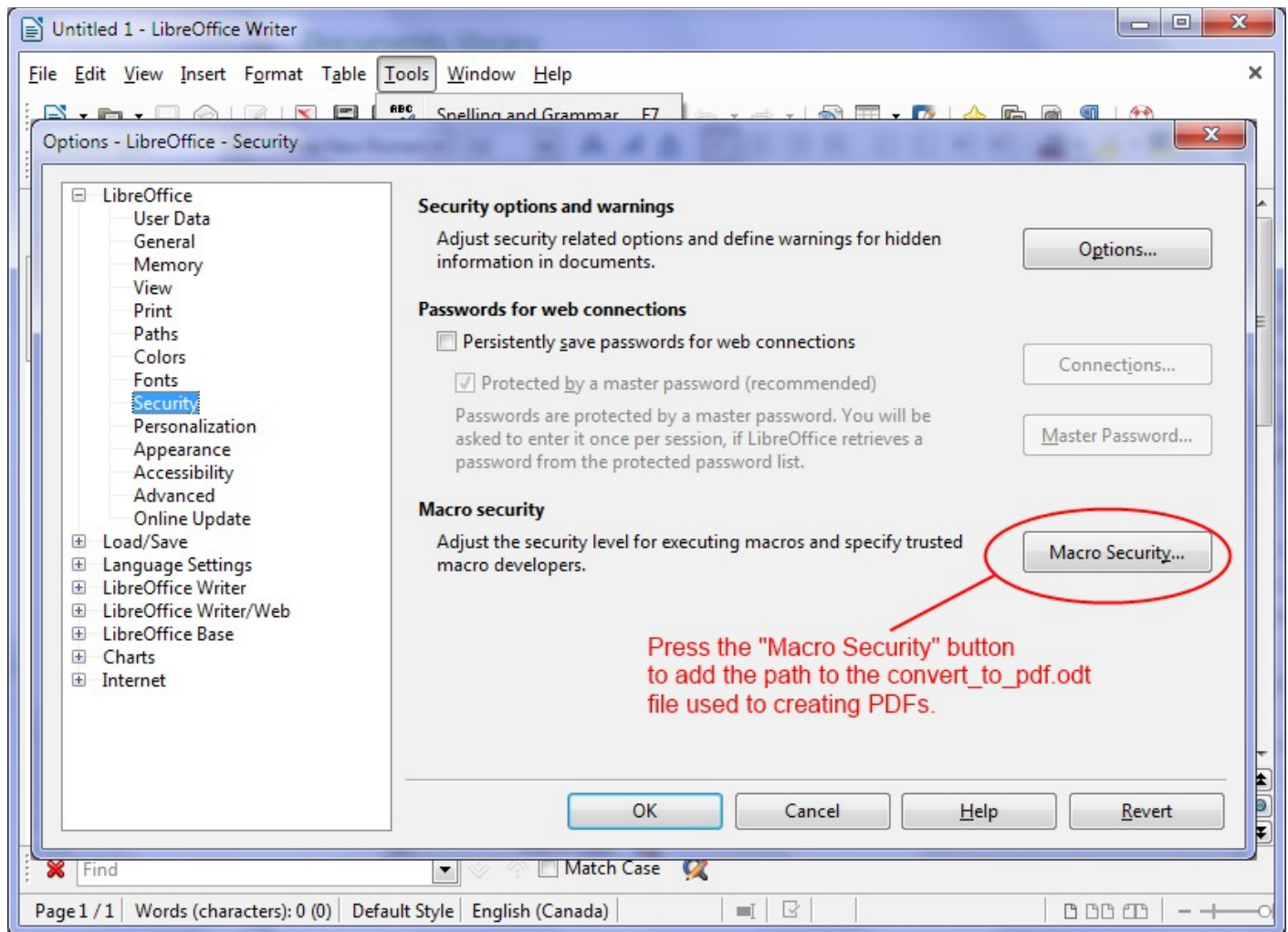
Instructions to do this are shown below.

2.4.1.1.1.0: Change the Macro Permissions for running convert_to_pdf.odt

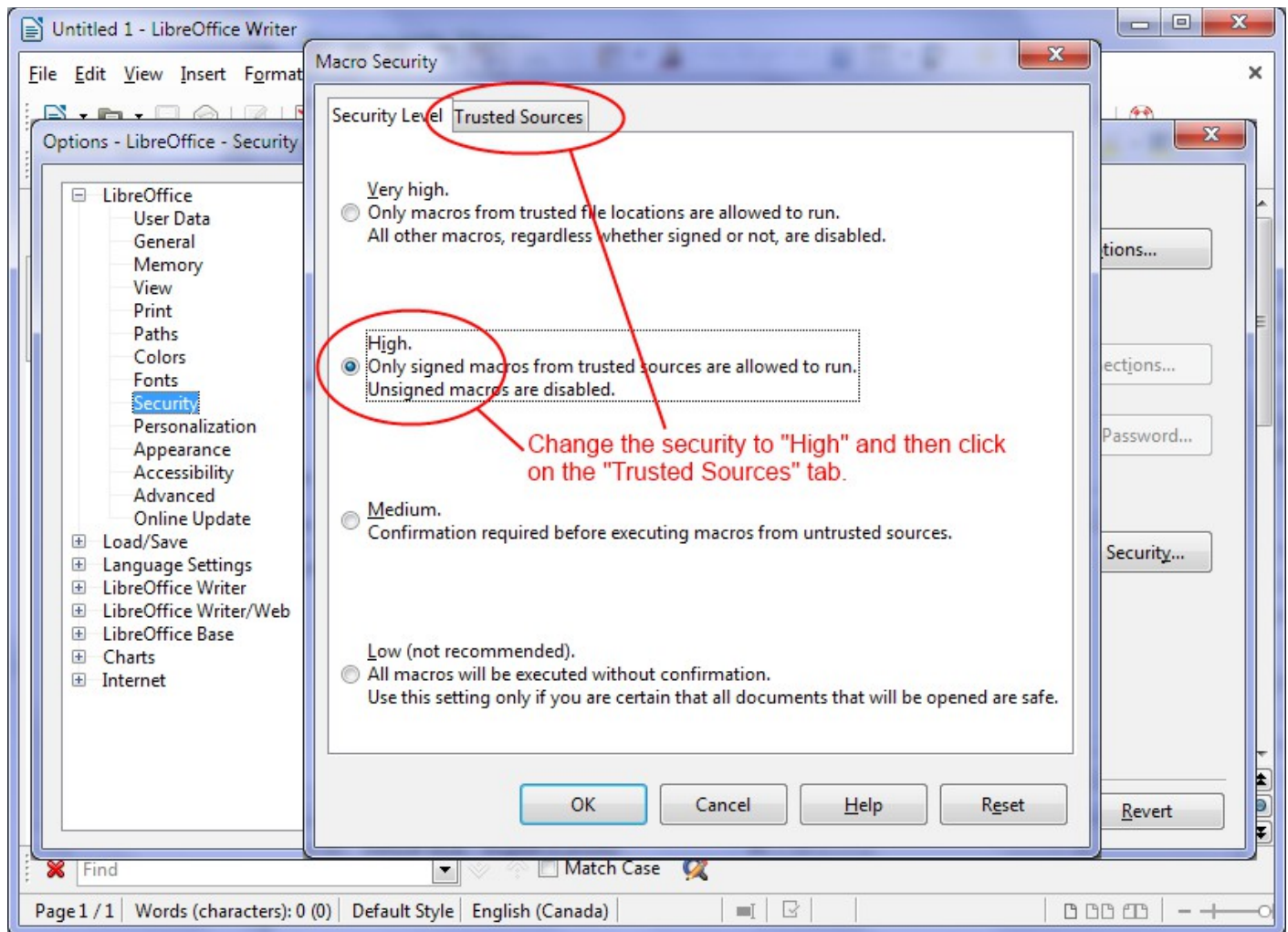
First open OpenOffice/LibreOffice writer and select **options" from the Tools*** menu:



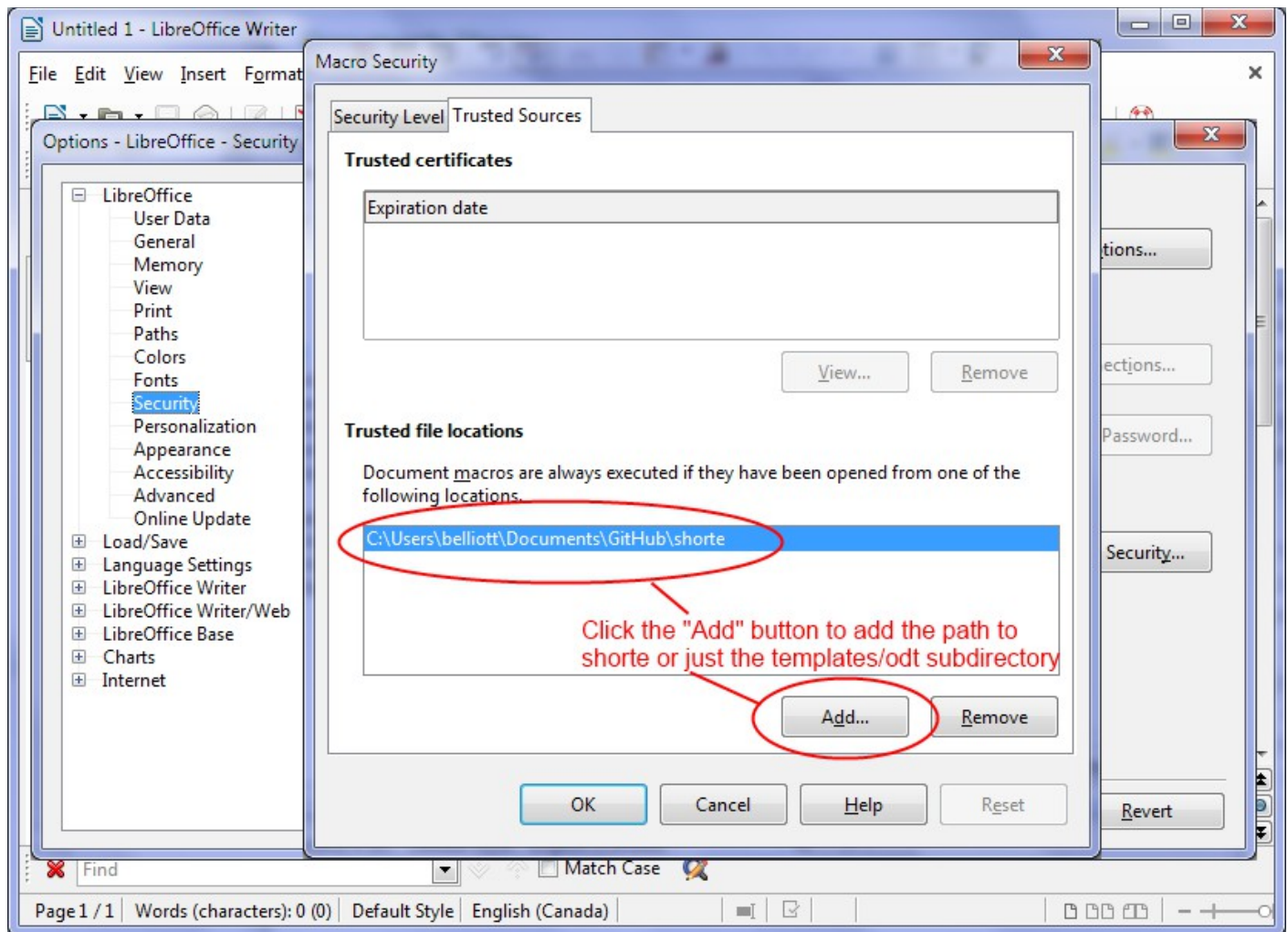
Under LibreOffice/OpenOffice select **Security** to bringup the **Macro Security** settings.
Press the **Macro Security** button



Change the macro security to **High** and then click on the **Trusted Sources** tab to add shorte to the path.



In the **Macro Security** dialog under the **Trusted Sources** tab click **Add** to add Shorte to the path.





3.0: The Command Line

```
001 $ shorte.py -h
002 Usage: shorte.py [options]
003
004 Options:
005   -h, --help                show this help message and exit
006   -f FILES, --files=FILES    The list of files to generate
007   -l FILE_LIST, --list=FILE_LIST
008                               The list of files to generate in an input file
009   -o OUTPUT_DIR, --output=OUTPUT_DIR
010                               The directory where output is generated
011   -v VERSION, --version=VERSION
012                               The version of the document
013   -t THEME, --theme=THEME    The output theme
014   -n NAME, --name=NAME       The document name or title
015   -p PACKAGE, --package=PACKAGE
016                               The output package. Supported types are html, odt,
017                               word, and pdf
018   -b OUTPUT_FORMAT, --output_format=OUTPUT_FORMAT
019                               Set the output format in C generated code: bitfields,
020                               byte_array, or defines
021   -y, --diagnostic_code      Generate diagnostic code in generate code
022   -c CONFIG, --config=CONFIG The config file to load
023   -s SETTINGS, --settings=SETTINGS
024                               A list of settings to use that overrides the standard
025                               config file
026   -x PARSER, --parser=PARSER The parser to use
027   -a, --about                About this program
028   -m MACROS, --macros=MACROS Macro substitution
029   -d DEFINE, --define=DEFINE Macro substitution
030   -r REPLACE, --search_and_replace=REPLACE
031                               An input search and replace module that is loaded to
032                               pre-process input files and replace any references
```

3.1.0: Some Command Line Examples

Parse a list of source files defined by `source_file_list.py` and generate Shorte modules describing each of the source files.

```
001 shorte.py -l source_file_list.py -x cpp -p shorte -r bin/cs4224_snr.py -m
'SKU=CS4343;VERSION=1.1'; -o build-output/srcs
```

- The **-r cs4224_snr.py** file allows a search and replace to be performed on the sources as they are generated.
- The **-m flag** passes a list of macros that can be used within the document for conditional inclusion or conditional text.



- The **-o build-output/srcs** parameter says to generate the files in the build-output/srcs directory.
- The **-x cpp** option switches the parser to the CPP parser instead of the default Shorte parser.
- The **-p shorte** parameter says to generate Shorte code from the C sources.

The `source_file_list.py` file will look something like:

```
001 result = ''
002 modules/high_level/cs4224.c
003 modules/high_level/cs4224.h
004
005 # Only include FC-AN and KR-AN in the duplex guide
006 if(SKU == 'CS4343'):
007     result += ''
008 modules/kran/cs4224_kran.c
009 ''
```

3.2.0: Creating a Merge File

A merge file re-assembles a Shorte document into a single file

4.0: The Document Header

The first part of any Shorte document is the document header. It is structured like HTML but isn't a strict. It is basically anything in the document before the `@body` tag. An example document header looks like:

```
001 # The beginning of the document is assumed to be the document
002 # header. As a convention normally the top level file will
003 # contain metadata about the document.
004
005 # The title of the document
006 @doctitle The Shorte Language
007
008 # The subtitle of the document
009 @docsubtitle Reference Manual
010
011 # A version number (can be overwritten from the command line)
012 @docversion 1.0
013
014 # A number to assign to the document
015 @docnumber 34567
016
017 @docrevisions:
018 - Revision | Date           | Description
019 - 1.0.0    | 08 July, 2013 | Initial draft of the Shorte Reference Manual
```

4.1.1.0: @doctitle

The `@doctitle` defines the title associated with the document. Only the first instance of this tag is used. If a second instance is encountered it will be ignored.

4.1.2.0: @docsubtitle

The `@docsubtitle` defines a subtitle for the document. Only the first instance of this tag is used. If a second instance is encountered it will be ignored.

4.1.3.0: @docversion

The `@docversion` tag defines a version number for the document. This can be overridden at the command line.

4.1.4.0: @docnumber

The `@docnumber` tag defines a number to associate with the document.

4.1.5.0: @docrevisions

The `@docrevisions` tag defines a revision history for the document.

5.0: The Document Body

5.1.0: Heading Tags

Headings use the @hN format where N currently ranges from 1-5.

5.1.1.0: @h1

The @h1 tag is the highest level header. It is similar in use to the H1 tag from HTML.

```
001 # An example header
002 @h1 This is an example header
003 This is some text for the example header
```

5.1.2.0: @h2

The @h2 tag is a hierarchial header directly beneath the @h1 tag. It is similar to the H2 tag from HTML.

```
001 @h1 This is an example header
002
003 # An example second level header
004 @h2 This is a sub header
005 This is some text related to the sub @h1 tag.
```

5.1.3.0: @h3

The @h3 tag is a hierarchial header directly beneath the @h2 tag. It is similar to the H3 tag from HTML.

```
001 @h1 This is an example header
002
003 @h2 This is a sub header
004
005 @h3 This is a third level header
006 Some text related to this header
```

5.1.4.0: @h4

The @h4 tag is a hierarchial header directly beneath the @h3 tag. It is similar to the H4 tag from HTML.

```
001 @h1 This is an example header
002
003 @h2 This is a sub header
004
005 @h3 This is a third level header
006
007 @h4 This is a fourth level header
008 Some example text here
```

5.1.5.0: @h5

The @h5 tag is a hierarchial header directly beneath the @h4 tag. It is similar to the H5 tag from HTML.

```
001 @h1 This is an example header
002
003 @h2 This is a sub header
004
005 @h3 This is a third level header
006
007 @h4 This is a fourth level header
008
009 @h5 This is a fifth level header
010 Some example text here
```

5.1.6.0: @h

The @h tag can be used to create a header that is un-numbered.

```
001 @h This is an un-numbered header
002 Some random text after the header
```

5.1.7.0: Assigning Wikiwords

Sometimes it is desirable to assign wikiwords to a heading. This allows multi-word headings to be automatically linked but also allows the user to prevent a short heading from being automatically linked

```
001 @h2: wikiword="MyHeading"
002 Test
003
004 This is some text associated with MyHeading. MyHeading will be expanded
005 to the word "Test" but Test won't get expanded.
```

5.2.0: Text Entry Tags

5.2.1.0: @text

The @text tag creates a text block that is automatically parsed for things like bullets, indentation, or blocks of code.

```
001 blah blah blah
002
003 - An multi-level list
004   - A second level in the list
005     - A third level in the list
006
007 Another paragraph with @{hl, some inlined styling} and
008
009 - A second list
010
011 {{
```

```
012 and a block of code
013 }}
```

When rendered we get something that looks like this:

blah blah blah

- An multi-level list
 - A second level in the list
 - A third level in the list

Another paragraph with some inlined styling and

- A second list

```
and a block of code
```

5.2.2.0: @p

The @p tag is used to create a paragraph. It is similar to the **P** tag in HTML. It does not attempt to parse the text block like the @text tag does in order to extract lists or indented code.

```
001 @p This is a paragraph in my document
002 @p This is another paragraph in my document
```

This creates a two paragraphs that looks like:

This is a paragraph in my document

This is another paragraph in my document

5.2.3.0: @pre

The @pre tag creates a block of unformatted text:

```
001 @pre
002 This is a test
003   this is a test
004     this is also a test
```

When rendered it will look like:

```
This is a test
  this is a test
    this is also a test
```

5.3.0: Include Files

Shorte supports include files using either of the following tags:

Include	Description
@include	A normal include - interrupts any conditional text flow
@include_child	A child include - obeys conditional text flow cascading rules

5.3.1.0: @include

The @include tag is used to include another file. This is to allow breaking a document up into multiple modules. The @include will break any cascading of conditional statements in the document hierarchy. To cascade conditional text in the document hierarchy use the @include_child tag instead.

```
001 @include "chapters/my_chapter.tpl"
```

Includes also support conditionals in order to support generating multiple documents from the same source. The example below uses a command line conditional called **VARIABLE** to include or exclude the file.

```
001 @include: if="VARIABLE == 'xyz'"
002 chapters/my_chapter.tpl
003 chapters/my_chapter2.tpl
```

5.3.2.0: @include_child

The @include_child tag is an alternative to the @child tag. It behaves slightly differently in that it does not break the cascade of conditional text but continues the current cascade.

```
001 @h1 My Title
002 This section will continue inside the my_chapter.tpl file.
003
004 @include_child: if="VARIABLE == 'xyz'"
005 chapters/my_chapter.tpl
```

5.4.0: Images and Image Maps

5.4.1.0: @image

The @image tag is used to include an image. Recommended image formats currently included .jpg or .png.

5.4.2.0: @imagemap

This tag is used to generate an Image map. It currently only works in the HTML output template. Links are not currently supported.

```
001 @imagemap: id="one"  
002 - shape | coords | Label | Description  
003 - circle | 50,50,50 | A Circle | This is a description of my circle  
004 - rect | 72,144,215,216 | A rectangle | This is a description of my rectangle.  
005  
006 @image: map="one" src="chapters/images/imagemap.png"
```

Will generate the following imagemap:



5.5.0: Lists and Tables

5.5.1.0: @ul

The @ul tag is used to create an unordered list similar to the **ul** tag in HTML. Lists can currently be indented 5 levels deep.

```
001 @ul  
002 - Item 1  
003   - Subitem a  
004     - Sub-subitem y  
005 - Item 2  
006   - Subitem b
```

This generates the following output

- Item 1
 - Subitem a

- Sub-subitem y
- Item 2
 - Subitem b

5.5.2.0: @ol

The @ol tag is used to create an unordered list similar to the ol tag in HTML. Lists can currently be indented 5 levels deep.

```
001 @ol
002 - Item 1
003   - Subitem a
004     - Sub-subitem y
005 - Item 2
006   - Subitem b
```

This generates the following output

1. Item 1
 - a. Subitem a
 - i. Sub-subitem y
2. Item 2
 - a. Subitem b

5.5.3.0: @table

The @table tag is used to create a table. The syntax is shown in the example below.

```
001 @table
002 - Header Col 1 | Header Col 2
003 - Field 1      | Field 2
004 - Field 3      | Field 4
005 -& Section
006 - Field 5      | Field 6
```

This generates the following output:

Header Col 1	Header Col 2
Field 1	Field 2
Field 3	Field 4
Section Header	
Field 5	Field 6

5.5.3.1.0: Spanning Columns

Spanning columns is accomplished by using one or more || after the column to span. Each additional | spans an extra column.

```
001 @table
002 - Column 1 | column 2 | Column 3 | Column 4 | Column 5
003 - This column spans the whole table
004 -& So does this header
005 - || Blah blah || Blah blah
006 -& This row has no spanning
007 - one | two | three | four | five
```

This creates a table that looks like this:

Column 1	column 2	Column 3	Column 4	Column 5
This column spans the whole table				
So does this header				
		Blah blah		Blah blah
This row has no spanning				
one	two	three	four	five

5.5.3.2.0: Headings and Sub-headings

The first row in the table is generally treated as the header. You can mark any row as a header row by starting the line with -*

```
001 - My Heading 1
002 -* Also a heading
003 -& This is a sub-heading
```

This creates a table that looks like:

My Heading 1
Also a heading
This is a sub-heading

5.5.3.3.0: Table Caption

To create a caption for a table you can do the following:

```
001 @table: caption="This is a caption for my table"
002 - My table
003 - My data | some more data
```

This creates the following table:



My table	
My data	some more data

5.5.3.4.0: Table Title

To add a title to the table you can use the **title** attribute:

```
001 @table: title="This is my table"  
002 - My table  
003 - My data | some more data
```

This creates the following table:

This is my table	
My table	
My data	some more data

5.6.0: Notes, TBD and Questions

5.6.1.0: @note

The @note tag is used to create notes within a section. Here is an example:

```
001 @note  
002 This is a note here that I want to display  
003  
004 - It has a list  
005   - With some data  
006  
007 And another paragraph.
```

This renders to something like this:



Note:

This is a note here that I want to display

- It has a list
 - With some data

And another paragraph.

5.6.2.0: @tbd

The @tbd tag is used to highlight sections of a document that are still **To Be Determined**. They are similar in syntax to the @note tag

```
001 @tbd
002 This is a block of code that is to be determined. It
003 works just like a textblock and supports
004
005 - lists
006     - indented data
007     - another item
008 - second item in list
009
010 Another paragraph
011
012     some indented text here
013     that wraps to a new line
014
015 A final paragraph
```



TBD:

This is a block of code that is to be determined. It works just like a textblock and supports

- lists
 - indented data
 - another item
- second item in list

Another paragraph

some indented text here that wraps to a new line

A final paragraph

5.6.3.0: @question

The @question tag is used to mark a question to the reader or mark anything that might still need to be answered

```
001 @question
002 This is a question
003
004 with another paragraph. It should eventually be switched
005 to the same syntax as the @note and @tbd tag.
```

When rendered this looks like:



Question:

This is a question

with another paragraph. It should eventually be switched to the same syntax as the @note and @tbd tag.

5.6.4.0: @questions

The @questions tag is used to create a Q and A type section. For example,

```
001 @questions
002 Q: This is a question with some more info
003 A: This is the answer to the question with a lot
004   of detail that wraps across multiple lines and
005   hopefully it will make the HTML look interesting
006   but I'm not sure we'll just have to see what
007   happens when it's rendered
008
009 Q: This is another question with some more information
010 A: This is the answer to that question
```

Will render to:

Q: This is a question with some more info

A: This is the answer to the question with a lot of detail that wraps across multiple lines and hopefully it will make the HTML look interesting but I'm not sure we'll just have to see what happens when it's rendered

Q: This is another question with some more information

A: This is the answer to that question

5.7.0: Structures and Functions

5.7.1.0: @struct

The @struct tag defines a C style structure. It also supports generating a picture showing the layout of the structure. The **title** attribute should currently be a unique name since it is used to map any generated image to the structure itself as well as generate C code from the structure definition.

For example:

```
001 @struct: name="struct1" caption="blah blah"
    diagram="show:yes,align:128,bitorder:decrement"
```



```
002 --fields:
003 - Field | Name      | Description
004 - 8x8   | serial_number | The serial number of the device
005         |               | with some more description
006 - 8x12  | part_number  | The part number of the device
007 - 4     | some_number  | Some random 4 byte number
```

Will generate:

This is a caption. It is currently in the wrong place

struct1		
Field Type	Field Name	Description
8x8	serial_number	The serial number of the device with some more description
8x12	part_number	The part number of the device
4	some_number	Some random 4 byte number

Another example:

```
001 @struct: name="struct2" caption="blah blah"
002 --fields:
003 - Field | Name      | Description
004 - 8x8   | serial_number | The serial number of the device
005         |               | with some more description
006 - 8x12  | part_number  | The part number of the device
007 - 4     | some_number  | Some random 4 byte number
```

Will generate a structure without a picture:

This is a caption. It is currently in the wrong place

struct2		
Field Type	Field Name	Description
8x8	serial_number	The serial number of the device with some more description
8x12	part_number	The part number of the device
4	some_number	Some random 4 byte number



The bit order can also be reversed and the alignment can be changed:

```
001 @struct: name="struct3" caption="This is a caption. It is currently in the wrong
place" diagram="show:yes,align:64,bitorder:increment"
002 --fields:
003 - Field | Name | Description
004 - 8x8 | serial_number | The serial number of the device
005 | | with some more description
006 - 8x12 | part_number | The part number of the device
007 - 4 | some_number | Some random 4 byte number
```

This is a caption. It is currently in the wrong place

struct3		
Field Type	Field Name	Description
8x8	serial_number	The serial number of the device with some more description
8x12	part_number	The part number of the device
4	some_number	Some random 4 byte number

5.7.2.0: @vector

The @vector is similar to the @struct tag and creates a bitfield type containing multiple fields. Field sizes are generally outlined in bit ranges instead of bytes in the @struct tag.

The following structure defines a 128 bit long bitfield with the bits shown in little endian order on a 64 bit boundary.

5.7.3.0: @define

The @define is used to document a #define structure in C.

5.7.4.0: @enum

The @enum tag is used to define an enumeration.

'This

Enum: e_my_test	
Enum	Description
LEEDS_VLT_SUPPLY_1	1V supply TX



V_TX	
LEEDS_VLT_SUPPLY_1 V_RX	1V supply RX
LEEDS_VLT_SUPPLY_1 V_CRE	1V supply digital core
LEEDS_VLT_SUPPLY_1 V_DIG_RX	1V supply digital RX
LEEDS_VLT_SUPPLY_1 p8V_RX	1.8V supply RX
LEEDS_VLT_SUPPLY_1 p8V_TX	1.8V supply TX
LEEDS_VLT_SUPPLY_2 p5V	2.5V supply
LEEDS_VLT_SUPPLY_T P_P	Test point P
LEEDS_VLT_SUPPLY_T P_N	Test point N

5.7.5.0: @prototype

The @prototype is used to describe a function prototype. This might be used when architecting code or it can also be extracted from existing source code (Currently only C sources can be parsed).

```

001 @prototype: language="C"
002 - function: my_function
003 - description:
004     This is a description of my function with some more text
005     and blah blah blah. I'm sure if I put enough text here then
006     it will likely wrap but I'm not absolutely sure. We'll see
007     what it looks like when it is actually formatted. For kicks
008     we'll link to the EPT acronym
009 - prototype:
010     int my_function(int val1 [], int val2 [][][5]);
011 - returns:
012     TRUE on success, FALSE on failure
013 - params:
014     -- val1 | I |
015         1 = blah blah
016             and more blah blah
017             plus blah
018
019         2 = blah blah blah

```




```

020
021         0 = turn beacon on
022     -- val2 | I |
023         *1* = blah blah
024
025         *2* = blah blah blah
026 - example:
027     rc = my_function(val);
028
029     if(rc != 0)
030     {
031         printf("Uh oh, something bad happened!\n");
032     }
033
034 - pseudocode:
035
036     // Blah blah blah
037     _call_sub_function()
038
039     if(blah)
040     {
041         // Do something else
042         _call_sub_function2()
043     }
044
045 - see also:
046     This is a test

```

When rendered it will create output similar to the following with it's own header automatically added for wiki linking. This behavior may be controlled by the **prototype_add_header** field in the Shorte config file.

Function: my_function

This is a description of my function with some more text and blah blah blah. I'm sure if I put enough text here then it will likely wrap but I'm not absolutely sure. We'll see what it looks like when it is actually formatted. For kicks we'll link to the [EPT](#) acronym

Prototype:

```
int my_function(int val1 [], int val2 [][][5]);
```

Parameters:

val1

[!]	1 = blah blah and more blah blah plus blah 2 = blah blah blah 0 = turn beacon on
-----	---



val2	
[l]	1 = blah blah 2 = blah blah blah
Returns:	
TRUE on success, FALSE on failure	
Example:	
<p>The following example demonstrates the usage of this method:</p> <pre> 001 rc = my_function(val); 002 003 if(rc != 0) 004 { 005 printf("Uh oh, something bad happened!\n"); 006 } </pre>	
Pseudocode:	
<p>The following pseudocode describes the implementation of this method:</p> <pre> 001 // Blah blah blah 002 _call_sub_function() 003 004 if(blah) 005 { 006 // Do something else 007 _call_sub_function2() 008 } </pre>	
See Also:	
<p>This is a test</p>	

5.7.6.0: @functionsummary

The @functionsummary tag creates a summary table of all prototypes cross referenced or defined within the document. In this document we've defined a single prototype my_function which should show up automatically when this tag is inserted into the document. Additionally if source code is included any prototypes would automatically get picked up in this table.

```
001 @functionsummary
```

Generates:



5.7.7.0: @typesummary

The @typesummary tag creates a summary of all structures or enumerations defined within the document or in any parsed source code.

```
001 @typesummary
```

Generates:

5.8.0: Source Code Tags

Shorte was built with technical documentation in mind so it supports including a variety of source code snippets. These are described in the following section.

5.8.1.0: Executing Snippets

In many cases the code within these tags can be executed and the results captured within the document itself. This is useful for validating example code. Execution is done by adding the following attribute:

```
exec="1"
```

to the tag. Remote execution is also possible if SSH keys are setup by adding the machine="xxx" and port="xxx" parameters.

5.8.2.0: @c

The @c tag is used to embed C code directly into the document and highlight it appropriately. For example, the following block of code inlines a C snippet. The code can also be run locally using g++ by passing the exec="1" attribute. See [Executing Snippets](#) for more information on setting up Shorte to execute code snippets.

```
001 @c: exec="0"  
002 #include <stdio.h>  
003 #include <stdlib.h>  
004 int main(void)  
005 {  
006     printf("hello world!\n");  
007     return EXIT_SUCCESS;  
008 }
```

This renders the following output:

```
001 #include <stdio.h>  
002 #include <stdlib.h>  
003 int main(void)  
004 {  
005     printf("hello world!\n");
```



```
006     return EXIT_SUCCESS;
007 }
```

5.8.3.0: @python

This tag is used to embed Python code directly into the document and highlight it appropriately. If the code is a complete snippet it can also be executed on the local machine and the results returned. See [Executing Snippets](#) for more information on setting up Shorte to execute code snippets.

```
001 @python: exec="1"
002 print "Hello world!"
```

This will execute the code on the local machine and return the output:

```
001 print "Hello world!"
```

5.8.4.0: @bash

This tag is used to embed bash code directly into the document and highlight it appropriately.

5.8.5.0: @perl

This tag is used to embed Perl code directly into the document and highlight it appropriately.

5.8.6.0: @shorte

This tag is used to embed Shorte code directly into the document and highlight it appropriately.

5.8.7.0: @d

This tag is used to embed D code directly into the document and highlight it appropriately.

5.8.8.0: @sql

This tag is used to embed SQL code directly into the document and highlight it appropriately.

5.8.9.0: @java

This tag is used to embed Java code directly into the document and highlight it appropriately.



5.8.10.0: @tcl

This tag is used to embed TCL code directly into the document and highlight it appropriately.

5.8.11.0: @vera

This tag is used to embed Vera code directly into the document and highlight it appropriately.

5.8.12.0: @code

If the language is not supported by Shorte the @code tag can be used to at least mark it as a block of code even if it can't properly support syntax highlighting.

```
001 @code
002 This is a test of a language that isn't supported by
003 Shorte.
001 This is a test of a language that isn't supported by
002 Shorte.
```

5.8.13.0: @shell

TBD: add description of this tag.

5.8.14.0: @xml

This tag can be used to insert a block of XML tag in a document and highlight it appropriately. Note that you currently have to escape the <? sequence to prevent it from being expanded by shorte.

```
001 @xml
002 <?xml version="1.0"?>
003 <methodCall>
004   <methodName>dev.dev_reg_read</methodName>
005   <params>
006     <param>
007       <value><i4>1</i4></value>
008     </param>
009     <param>
010       <value><i4>0</i4></value>
011     </param>
012   </params>
013 </methodCall>
001 <?xml version="1.0"?>
002 <methodCall>
003   <methodName>dev.dev_reg_read</methodName>
004   <params>
005     <param>
```



```
007     <value><i4>1</i4></value>
008     </param>
009     <param>
010
011         <value><i4>0</i4></value>
012     </param>
013 </params>
014 </methodCall>
```

5.9.0: Other Tags

The following section describes some of the other more obscure tags that Shorte supports.

5.9.1.0: @inkscape

This allows including SVG files from Inkscape direction in the document. It requires Inkscape to be installed and the path properly configured. SVG files are automatically converted to .png files for inclusion since SVG files aren't widely supported.

5.9.2.0: @checklist

The @checklist tag creates a non-interactive checklist

- one
- two
- three
- four

5.9.3.0: @acronyms

Acronyms	
Acronym	Definition
EPT	Egress Parser Table
EPC	Egress Parser CAM

5.9.4.0: @embed

TBD - Add description of this tag

shorte

The Documentation Language

www.github.com/bradfordelliott/shorte