SIMMAN

# Doxygen+Graphviz生成代码文档

📅 2014-01-11 ｜ 🗂 [archives](#) ｜ ｜ 🗋 73

## Doxygen简介

Doxygen是一种开源跨平台的，以类似JavaDoc风格描述的文档系统，完全支持C、C++、Java、Objective-C和IDL语言，部分支持PHP、C#。注释的语法与Qt-Doc、KDoc和JavaDoc兼容。Doxgen可以从一套归档源文件开始，生成HTML格式的在线类浏览器，或离线的LATEX、RTF参考手册。

## 开始安装

需要准备的工具如下：

01、Doxygen 下载地址：http://www.stack.nl/~dimitri/doxygen/download.html

02、Graphviz 下载地址：http://www.graphviz.org/Download..php
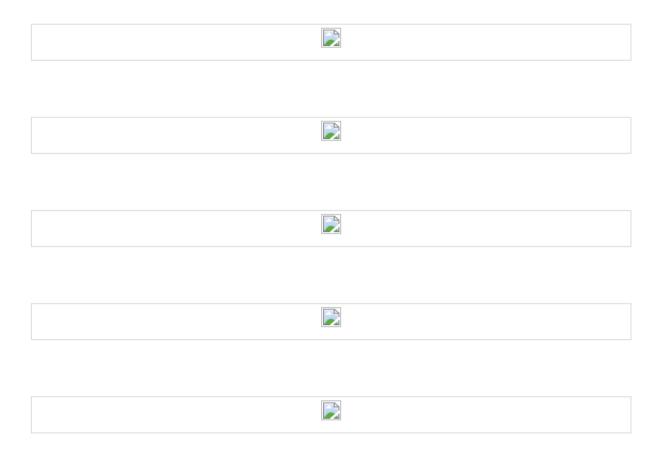
## 代码注释规范

1      1.所有注释都可以使用///开始(C++风格)。

2

3  2.类体前必须加上///描述，否则会产生警告【Compound 类名 is not documented】

4    描述中最好不要带有此类的类名，否则会产生两个链接(但指向同一个文件)影响美观。

5

6  3.public和protected会自动生成，但是private要在Expert的Build选项里勾中EXTRACT_PRIVATE，static成员也是如此。

7

8  4.函数注释方式

9    /// Constructor【函数描述】

10   /// @param [in] pos      The position of Camera in world coordinate        【参数描述1】

11   /// @param [in] lookat   The point Camera looks at in world coordinate    【参数描述2】

12   BaseCamera( const D3DXVECTOR3&#038; pos, const D3DXVECTOR3&#038; lookat );

13

14  5.变量注释方式

15   D3DXVECTOR3 m_Position;    /*!&lt; Camera position point in world coordinate */   或

16   D3DXVECTOR3 m_Position;    ///&lt; Camera position point in world coordinate

17  两种方式产生的结果不同。前者会单独产生一块Member Data Documentation注释，后者会在Pubilc/Protected/Private Attributes变量描述后紧跟注释。

18

19  6.@参数和\参数相同

20

21  7.产生描述顺序和注释顺序相同，一般风格为

22

23   /// 函数描述

24   /// @param    参数描述

25   /// @return    返回值描述

26   /// @retval    返回值1    返回值1描述

27   /// @retval    返回值2    返回值2描述

28   /// @remarks    注意事项

29   /// @note    注意事项，功能同@remarks,显示字样不同

30   /// @par    自定义图块，后面可跟示例代码之类

31   /// @code(必须使用@endcode结束)

32   /// 示例代码(无需缩进)

33   /// @endcode

34   /// @see    其他参考项【产生指向参考的链接】

35   函数代码声明

36

37    8.特殊符号
38     /// -       产生一个黑色圆点
39
40    9.定义在类体里面的enum
41     /// Camera types
42     enum CAMERA_TYPE
43     {
44       CAMERA_FIRST_VIEW,/*!&lt; Camera that looks from the first view */
45       CAMERA_MODEL_VIEW,///&lt; Camera that looks from the third view
46     };
47     两种风格相同。
48
49    以下开始的项都是全局非类内定义，在文件最开始(我尝试是在include之前) 必须加上【/// \file 文件名】，否则不会生成注释【没有File Member页】。
50
51    10. 定义在文件里面的宏
52      #define CAMERA_TYPE_NUMBER    ///&lt; The number of camera types.      或
53      #define CAMERA_TYPE_NUMBER    /*!&lt; The number of camera types. */
54    风格说明见5。
55
56    11. 非类内enum定义同10.      两种风格相同。 见9。
57    12. 非类内typedef定义同10.    风格说明见5。

## Doxygen配置

然后文档就生成了，我的配置文件：

```
1    # Doxyfile 1.8.6
2
3    #---------------------------------------------------------------------------
4    # Project related configuration options
5    #---------------------------------------------------------------------------
6    DOXYFILE_ENCODING      = UTF-8
7    PROJECT_NAME           = RosiMM
8    PROJECT_NUMBER         = 1.0.3
9    PROJECT_BRIEF          = 代码文档
```

```
10   PROJECT_LOGO          = /Users/simman/Pictures/小头像/http-__touxiang10.duapp.com_katongtx_kt_232.jpg
11   OUTPUT_DIRECTORY      =
12   CREATE_SUBDIRS        = NO
13   OUTPUT_LANGUAGE       = Chinese
14   BRIEF_MEMBER_DESC     = YES
15   REPEAT_BRIEF          = YES
16   ABBREVIATE_BRIEF      = "The $name class" \
17                           "The $name widget" \
18                           "The $name file" \
19                           is \
20                           provides \
21                           specifies \
22                           contains \
23                           represents \
24                           a \
25                           an \
26                           the
27   ALWAYS_DETAILED_SEC   = NO
28   INLINE_INHERITED_MEMB = NO
29   FULL_PATH_NAMES       = YES
30   STRIP_FROM_PATH       =
31   STRIP_FROM_INC_PATH   =
32   SHORT_NAMES           = NO
33   JAVADOC_AUTOBRIEF     = NO
34   QT_AUTOBRIEF          = NO
35   MULTILINE_CPP_IS_BRIEF = NO
36   INHERIT_DOCS          = YES
37   SEPARATE_MEMBER_PAGES = NO
38   TAB_SIZE              = 4
39   ALIASES               =
40   TCL_SUBST             =
41   OPTIMIZE_OUTPUT_FOR_C = NO
42   OPTIMIZE_OUTPUT_JAVA  = NO
43   OPTIMIZE_FOR_FORTRAN  = NO
44   OPTIMIZE_OUTPUT_VHDL  = NO
```

```
45   EXTENSION_MAPPING     =
46   MARKDOWN_SUPPORT      = YES
47   AUTOLINK_SUPPORT      = YES
48   BUILTIN_STL_SUPPORT    = NO
49   CPP_CLI_SUPPORT       = NO
50   SIP_SUPPORT          = NO
51   IDL_PROPERTY_SUPPORT   = YES
52   DISTRIBUTE_GROUP_DOC   = NO
53   SUBGROUPING          = YES
54   INLINE_GROUPED_CLASSES = NO
55   INLINE_SIMPLE_STRUCTS  = NO
56   TYPEDEF_HIDES_STRUCT   = NO
57   LOOKUP_CACHE_SIZE     = 0
58   #---------------------------------------------------------------------------
59   # Build related configuration options
60   #---------------------------------------------------------------------------
61   EXTRACT_ALL          = YES
62   EXTRACT_PRIVATE       = YES
63   EXTRACT_PACKAGE       = YES
64   EXTRACT_STATIC        = YES
65   EXTRACT_LOCAL_CLASSES  = YES
66   EXTRACT_LOCAL_METHODS  = NO
67   EXTRACT_ANON_NSPACES   = NO
68   HIDE_UNDOC_MEMBERS    = NO
69   HIDE_UNDOC_CLASSES    = NO
70   HIDE_FRIEND_COMPOUNDS  = NO
71   HIDE_IN_BODY_DOCS     = NO
72   INTERNAL_DOCS        = NO
73   CASE_SENSE_NAMES      = NO
74   HIDE_SCOPE_NAMES      = NO
75   SHOW_INCLUDE_FILES    = YES
76   SHOW_GROUPED_MEMB_INC  = YES
77   FORCE_LOCAL_INCLUDES   = YES
78   INLINE_INFO          = YES
79   SORT_MEMBER_DOCS      = YES
```

```
 80    SORT_BRIEF_DOCS       = NO
 81    SORT_MEMBERS_CTORS_1ST = NO
 82    SORT_GROUP_NAMES      = NO
 83    SORT_BY_SCOPE_NAME    = NO
 84    STRICT_PROTO_MATCHING  = NO
 85    GENERATE_TODOLIST     = YES
 86    GENERATE_TESTLIST     = YES
 87    GENERATE_BUGLIST      = YES
 88    GENERATE_DEPRECATEDLIST= YES
 89    ENABLED_SECTIONS      =
 90    MAX_INITIALIZER_LINES  = 30
 91    SHOW_USED_FILES       = YES
 92    SHOW_FILES          = YES
 93    SHOW_NAMESPACES       = YES
 94    FILE_VERSION_FILTER    =
 95    LAYOUT_FILE          =
 96    CITE_BIB_FILES        =
 97    #---------------------------------------------------------------------
 98    # Configuration options related to warning and progress messages
 99    #---------------------------------------------------------------------
100    QUIET              = NO
101    WARNINGS           = YES
102    WARN_IF_UNDOCUMENTED   = YES
103    WARN_IF_DOC_ERROR     = YES
104    WARN_NO_PARAMDOC      = NO
105    WARN_FORMAT          = "$file:$line: $text"
106    WARN_LOGFILE         =
107    #---------------------------------------------------------------------
108    # Configuration options related to the input files
109    #---------------------------------------------------------------------
110    INPUT              =
111    INPUT_ENCODING       = UTF-8
112    FILE_PATTERNS        = *.c \
113                   *.cc \
114                   *.cxx \
```

| 115 | *.cpp \ |
| 116 | *.c++ \ |
| 117 | *.java \ |
| 118 | *.ii \ |
| 119 | *.ixx \ |
| 120 | *.ipp \ |
| 121 | *.i++ \ |
| 122 | *.inl \ |
| 123 | *.idl \ |
| 124 | *.ddl \ |
| 125 | *.odl \ |
| 126 | *.h \ |
| 127 | *.hh \ |
| 128 | *.hxx \ |
| 129 | *.hpp \ |
| 130 | *.h++ \ |
| 131 | *.cs \ |
| 132 | *.d \ |
| 133 | *.php \ |
| 134 | *.php4 \ |
| 135 | *.php5 \ |
| 136 | *.phtml \ |
| 137 | *.inc \ |
| 138 | *.m \ |
| 139 | *.markdown \ |
| 140 | *.md \ |
| 141 | *.mm \ |
| 142 | *.dox \ |
| 143 | *.py \ |
| 144 | *.f90 \ |
| 145 | *.f \ |
| 146 | *.for \ |
| 147 | *.tcl \ |
| 148 | *.vhd \ |
| 149 | *.vhdl \ |

```
150              *.ucf \
151              *.qsf \
152              *.as \
153              *.js
154   RECURSIVE            = NO
155   EXCLUDE             =
156   EXCLUDE_SYMLINKS     = NO
157   EXCLUDE_PATTERNS     =
158   EXCLUDE_SYMBOLS      =
159   EXAMPLE_PATH        =
160   EXAMPLE_PATTERNS     = *
161   EXAMPLE_RECURSIVE    = NO
162   IMAGE_PATH          =
163   INPUT_FILTER        =
164   FILTER_PATTERNS      =
165   FILTER_SOURCE_FILES   = NO
166   FILTER_SOURCE_PATTERNS =
167   USE_MDFILE_AS_MAINPAGE =
168   #---------------------------------------------------------------------------
169   # Configuration options related to source browsing
170   #---------------------------------------------------------------------------
171   SOURCE_BROWSER        = YES
172   INLINE_SOURCES        = NO
173   STRIP_CODE_COMMENTS   = YES
174   REFERENCED_BY_RELATION = NO
175   REFERENCES_RELATION    = NO
176   REFERENCES_LINK_SOURCE = YES
177   SOURCE_TOOLTIPS       = YES
178   USE_HTAGS            = NO
179   VERBATIM_HEADERS      = YES
180   CLANG_ASSISTED_PARSING = NO
181   CLANG_OPTIONS         =
182   #---------------------------------------------------------------------------
183   # Configuration options related to the alphabetical class index
184   #---------------------------------------------------------------------------
```

```
185    ALPHABETICAL_INDEX    = YES
186    COLS_IN_ALPHA_INDEX   = 5
187    IGNORE_PREFIX         =
188    #---------------------------------------------------------------------
189    # Configuration options related to the HTML output
190    #---------------------------------------------------------------------
191    GENERATE_HTML         = YES
192    HTML_OUTPUT           = html
193    HTML_FILE_EXTENSION   = .html
194    HTML_HEADER           =
195    HTML_FOOTER           =
196    HTML_STYLESHEET       =
197    HTML_EXTRA_STYLESHEET = 
198    HTML_EXTRA_FILES      =
199    HTML_COLORSTYLE_HUE   = 220
200    HTML_COLORSTYLE_SAT   = 100
201    HTML_COLORSTYLE_GAMMA = 80
202    HTML_TIMESTAMP        = YES
203    HTML_DYNAMIC_SECTIONS = NO
204    HTML_INDEX_NUM_ENTRIES = 100
205    GENERATE_DOCSET       = NO
206    DOCSET_FEEDNAME       = "Doxygen generated docs"
207    DOCSET_BUNDLE_ID      = org.doxygen.Project
208    DOCSET_PUBLISHER_ID   = org.doxygen.Publisher
209    DOCSET_PUBLISHER_NAME = Publisher
210    GENERATE_HTMLHELP     = NO
211    CHM_FILE              =
212    HHC_LOCATION          =
213    GENERATE_CHI          = NO
214    CHM_INDEX_ENCODING    =
215    BINARY_TOC            = NO
216    TOC_EXPAND            = NO
217    GENERATE_QHP          = NO
218    QCH_FILE              =
219    QHP_NAMESPACE         = org.doxygen.Project
```

```
220    QHP_VIRTUAL_FOLDER    = doc
221    QHP_CUST_FILTER_NAME   =
222    QHP_CUST_FILTER_ATTRS  =
223    QHP_SECT_FILTER_ATTRS  =
224    QHG_LOCATION           =
225    GENERATE_ECLIPSEHELP   = NO
226    ECLIPSE_DOC_ID         = org.doxygen.Project
227    DISABLE_INDEX          = NO
228    GENERATE_TREEVIEW      = YES
229    ENUM_VALUES_PER_LINE   = 4
230    TREEVIEW_WIDTH         = 250
231    EXT_LINKS_IN_WINDOW    = NO
232    FORMULA_FONTSIZE       = 10
233    FORMULA_TRANSPARENT    = YES
234    USE_MATHJAX            = NO
235    MATHJAX_FORMAT         = HTML-CSS
236    MATHJAX_RELPATH        = http://cdn.mathjax.org/mathjax/latest
237    MATHJAX_EXTENSIONS     =
238    MATHJAX_CODEFILE       =
239    SEARCHENGINE           = YES
240    SERVER_BASED_SEARCH    = NO
241    EXTERNAL_SEARCH        = NO
242    SEARCHENGINE_URL       =
243    SEARCHDATA_FILE        = searchdata.xml
244    EXTERNAL_SEARCH_ID     =
245    EXTRA_SEARCH_MAPPINGS  =
246    #---------------------------------------------------------------------
247    # Configuration options related to the LaTeX output
248    #---------------------------------------------------------------------
249    GENERATE_LATEX         = YES
250    LATEX_OUTPUT           = latex
251    LATEX_CMD_NAME         = latex
252    MAKEINDEX_CMD_NAME     = makeindex
253    COMPACT_LATEX          = NO
254    PAPER_TYPE             = a4
```

```
255    EXTRA_PACKAGES       =
256    LATEX_HEADER         =
257    LATEX_FOOTER         =
258    LATEX_EXTRA_FILES    =
259    PDF_HYPERLINKS       = YES
260    USE_PDFLATEX         = YES
261    LATEX_BATCHMODE      = NO
262    LATEX_HIDE_INDICES   = NO
263    LATEX_SOURCE_CODE    = NO
264    LATEX_BIB_STYLE      = plain
265    #---------------------------------------------------------------------------
266    # Configuration options related to the RTF output
267    #---------------------------------------------------------------------------
268    GENERATE_RTF         = NO
269    RTF_OUTPUT           = rtf
270    COMPACT_RTF          = NO
271    RTF_HYPERLINKS       = NO
272    RTF_STYLESHEET_FILE  =
273    RTF_EXTENSIONS_FILE  =
274    #---------------------------------------------------------------------------
275    # Configuration options related to the man page output
276    #---------------------------------------------------------------------------
277    GENERATE_MAN         = NO
278    MAN_OUTPUT           = man
279    MAN_EXTENSION        = .3
280    MAN_LINKS            = NO
281    #---------------------------------------------------------------------------
282    # Configuration options related to the XML output
283    #---------------------------------------------------------------------------
284    GENERATE_XML         = NO
285    XML_OUTPUT           = xml
286    XML_SCHEMA           =
287    XML_DTD              =
288    XML_PROGRAMLISTING   = YES
289    #---------------------------------------------------------------------------
```

```
290     # Configuration options related to the DOCBOOK output
291     #---------------------------------------------------------------------------
292     GENERATE_DOCBOOK       = NO
293     DOCBOOK_OUTPUT         = docbook
294     #---------------------------------------------------------------------------
295     # Configuration options for the AutoGen Definitions output
296     #---------------------------------------------------------------------------
297     GENERATE_AUTOGEN_DEF   = NO
298     #---------------------------------------------------------------------------
299     # Configuration options related to the Perl module output
300     #---------------------------------------------------------------------------
301     GENERATE_PERLMOD       = NO
302     PERLMOD_LATEX          = NO
303     PERLMOD_PRETTY         = YES
304     PERLMOD_MAKEVAR_PREFIX =
305     #---------------------------------------------------------------------------
306     # Configuration options related to the preprocessor
307     #---------------------------------------------------------------------------
308     ENABLE_PREPROCESSING   = YES
309     MACRO_EXPANSION        = NO
310     EXPAND_ONLY_PREDEF     = NO
311     SEARCH_INCLUDES        = YES
312     INCLUDE_PATH           =
313     INCLUDE_FILE_PATTERNS  =
314     PREDEFINED             =
315     EXPAND_AS_DEFINED      =
316     SKIP_FUNCTION_MACROS   = YES
317     #---------------------------------------------------------------------------
318     # Configuration options related to external references
319     #---------------------------------------------------------------------------
320     TAGFILES               =
321     GENERATE_TAGFILE       =
322     ALLEXTERNALS           = NO
323     EXTERNAL_GROUPS        = YES
324     EXTERNAL_PAGES         = YES
```

```
325    PERL_PATH            = /usr/bin/perl
326    #---------------------------------------------------------------------
327    # Configuration options related to the dot tool
328    #---------------------------------------------------------------------
329    CLASS_DIAGRAMS        = NO
330    MSCGEN_PATH           =
331    DIA_PATH              =
332    HIDE_UNDOC_RELATIONS   = YES
333    HAVE_DOT             = YES
334    DOT_NUM_THREADS       = 0
335    DOT_FONTNAME          = Helvetica
336    DOT_FONTSIZE          = 10
337    DOT_FONTPATH          =
338    CLASS_GRAPH          = YES
339    COLLABORATION_GRAPH    = YES
340    GROUP_GRAPHS         = YES
341    UML_LOOK             = NO
342    UML_LIMIT_NUM_FIELDS   = 10
343    TEMPLATE_RELATIONS     = NO
344    INCLUDE_GRAPH        = YES
345    INCLUDED_BY_GRAPH      = YES
346    CALL_GRAPH           = YES
347    CALLER_GRAPH          = YES
348    GRAPHICAL_HIERARCHY    = YES
349    DIRECTORY_GRAPH       = YES
350    DOT_IMAGE_FORMAT      = png
351    INTERACTIVE_SVG       = NO
352    DOT_PATH             = /usr/local/bin
353    DOTFILE_DIRS          =
354    MSCFILE_DIRS          =
355    DIAFILE_DIRS          =
356    DOT_GRAPH_MAX_NODES    = 50
357    MAX_DOT_GRAPH_DEPTH    = 0
358    DOT_TRANSPARENT       = NO
359    DOT_MULTI_TARGETS      = NO
```

```
360    GENERATE_LEGEND      = YES
361    DOT_CLEANUP          = YES
```

#Doxygen

---

❮ 解决duplicate symbol _OBJC_CLASS 错误                           RyPress'Oc教程――01简介 ❯

© 2013 - 2016 ❤ SimMan

Powered by Hexo    |    Theme - NexT.Pisces

👤 3083    |    👁 3969