

# Doxygen

Brandon Stephens

# Use

- Generates Documentation
- HTML, rtf, LaTeX
- C++, C, Java, Python, C#, Objective-C, VHDL
- Extracts code structure from undocumented source
- Qt, javadoc, C++, C style commenting

# The Setup and Basic Usage

- apt-get install doxygen
- Ta-da!
- doxygen -g <config\_file>
- doxygen <config\_file>

```
Configuration file 'Doxyfile' created.
```

```
Now edit the configuration file and enter
```

```
doxygen Doxyfile
```

```
to generate the documentation for your project
```

# The Setup and Basic Usage

```
#-----  
# Project related configuration options  
#-----  
  
# This tag specifies the encoding used for all characters in the config file  
# that follow. The default is UTF-8 which is also the encoding used for all text  
# before the first occurrence of this tag. Doxygen uses libiconv (or the iconv  
# built into libc) for the transcoding. See http://www.gnu.org/software/libiconv  
# for the list of possible encodings.  
# The default value is: UTF-8.  
  
DOXYFILE_ENCODING      = UTF-8  
  
# The PROJECT_NAME tag is a single word (or a sequence of words surrounded by  
# double-quotes, unless you are using Doxywizard) that should identify the  
# project for which the documentation is generated. This name is used in the  
# title of most generated pages and in a few other places.  
# The default value is: My Project.  
  
PROJECT_NAME           = "My Project"  
  
# The PROJECT_NUMBER tag can be used to enter a project or revision number. This  
# could be handy for archiving the generated documentation or if some version  
# control system is used.  
  
PROJECT_NUMBER         =
```

# Commenting Styles

- JavaDoc

```
/**
```

```
 * ... text ...
```

```
 */
```

- `/*!`

```
 * ... text ...
```

```
 */
```

- `///`

```
/// ... text ...
```

```
///
```

- Demo

# References

- <http://www.doxygen.nl/index.html>
- <http://www.stack.nl/~dimitri/doxygen/manual/index.html>
- <http://www.stack.nl/~dimitri/doxygen/projects.html>