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Tutorial XCode 4.0 Doxygen

This tutorial will explain how to setup Doxygen with X-Code 4.0. If you want to document your code exactly as Apple Documentation, you might use Doxygen and follow this tutorial. Apple guide (<http://developer.apple.com/tools/creatingdocsetswithdoxygen.html>) for this purpose is based on previous versions of xCode, and could be helpless for xcode 4.0

So, i wil try to explain it the easiest possible , step by step.

- **Step 1.** Download & Install Doxygen at:

Download Doxygen (<http://www.stack.nl/~dimitri/doxygen/download.html#latestsrc>) and the drag it to Applications folder

- **Step 2.**



example with script



After adding a build Phase, you have to copy this script in the shell space:

```
# Build the doxygen documentation for the project and load the docset into Xcode.
```

```
# Use the following to adjust the value of the $DOXYGEN_PATH User-Defined Setting:
# Binary install location: /Applications/Doxygen.app/Contents/Resources/doxygen
# Source build install location: /usr/local/bin/doxygen

# If the config file doesn't exist, run 'doxygen -g $SOURCE_ROOT/doxygen.config' to
# a get default file.

if ! [ -f $SOURCE_ROOT/doxygen.config ]
then
echo doxygen config file does not exist
$DOXYGEN_PATH -g $SOURCE_ROOT/doxygen.config
fi

# Append the proper input/output directories and docset info to the config file.
# This works even though values are assigned higher up in the file. Easier than sed.

cp $SOURCE_ROOT/doxygen.config $TEMP_DIR/doxygen.config

echo "INPUT = $SOURCE_ROOT" >> $TEMP_DIR/doxygen.config
echo "OUTPUT_DIRECTORY = $SOURCE_ROOT/DoxygenDocs.docset" >>
$TEMP_DIR/doxygen.config
# This command makes all work! it tells Doxygen app to scan recursively the source forlder.
echo "RECURSIVE = YES" >> $TEMP_DIR/Doxyfile
echo "EXTRACT_ALL = YES" >> $TEMP_DIR/Doxyfile
echo "GENERATE_DOCSET = YES" >> $TEMP_DIR/doxygen.config
echo "DOCSET_BUNDLE_ID = com.mycompany.DoxygenExample" >> $TEMP_DIR/doxygen.config

# Run doxygen on the updated config file.
# Note: doxygen creates a Makefile that does most of the heavy lifting.

$DOXYGEN_PATH $TEMP_DIR/doxygen.config

# make will invoke docsetutil. Take a look at the Makefile to see how this is done.

make -C $SOURCE_ROOT/html install
echo "success"
# Construct a temporary applescript file to tell Xcode to load a docset.

rm -f $TEMP_DIR/loadDocSet.scpt

echo "tell application \"Xcode\"" >> $TEMP_DIR/loadDocSet.scpt
echo "load documentation set with path \"/Users/
$USER/Library/Developer/Shared/Documentation/DocSets/com.mycompany.DoxygenExample.docse
>> $TEMP_DIR/loadDocSet.scpt
echo "end tell" >> $TEMP_DIR/loadDocSet.scpt

# Run the load-docset applescript command.

osascript $TEMP_DIR/loadDocSet.scpt

exit 0
Like this:
```



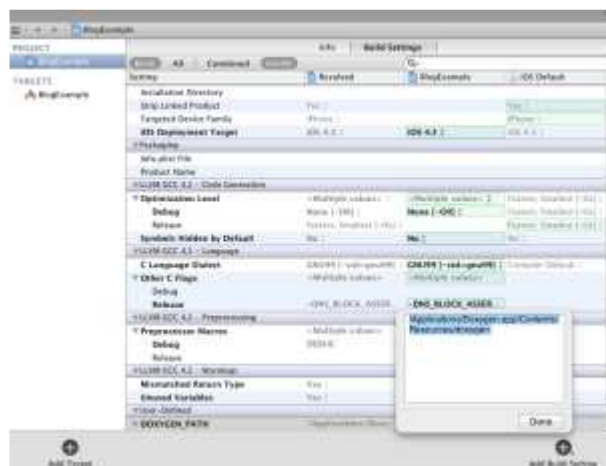
<http://iphonepills.files.wordpress.com/2011/08/captura-de-pantalla-2011-08-18-a-las-18-12-17.png>
example with script

Step 3. Now, you need to tell xcode where to find Doxygen. we will user a preprocessor defintion:

Click on project -> the select you app project -> add Building Setting -> add New User-Defined setting

then, type: DOXYGEN_PATH

And in value: /Applications/Doxygen.app/Contents/Resources/doxygen or your where you have instaled doxygen



hey

<http://iphonepills.files.wordpress.com/2011/08/captura-de-pantalla-2011-08-18-a-las-18-20-59.png>

now you just have to run you app... and you've a got it!!

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