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for Today

## Generating a callgraph by using Doxygen and Graphviz

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One of the questions of my OS assignment asks me to draw a [callgraph](#). It can be one-time task and I can draw it on a piece of paper. Soon I noticed that the one that I want to draw is much bigger in size that I can simply draw on a paper. Also I wanted to draw it in 'fancier' way. I search the Internet, and I found [this](#) is one of the choices.

The following is what I have done.

1. Install Doxygen and Graphviz. In my case, I only had to install Graphviz (and I am using linux fedora)  
`sudo yum install graphviz`
2. Go to the folder where your source files are located.
3. `doxygen -g`  
This will generate a configuration file, named 'Doxyfile'.
4. Modify Doxyfile if necessary. To generate a callgraph, you need to set up appropriately. I changed the following properties.  
HAVE\_DOT = YES  
EXTRACT\_ALL = YES  
EXTRACT\_PRIVATE = YES  
EXTRACT\_STATIC = YES  
CALL\_GRAPH = YES
5. Then you run doxygen:  
`doxygen Doxyfile`
6. New folder 'html' and 'latex' will be generated, and you can find all the documentations in the folders.

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