

Doxygen

Doxygen

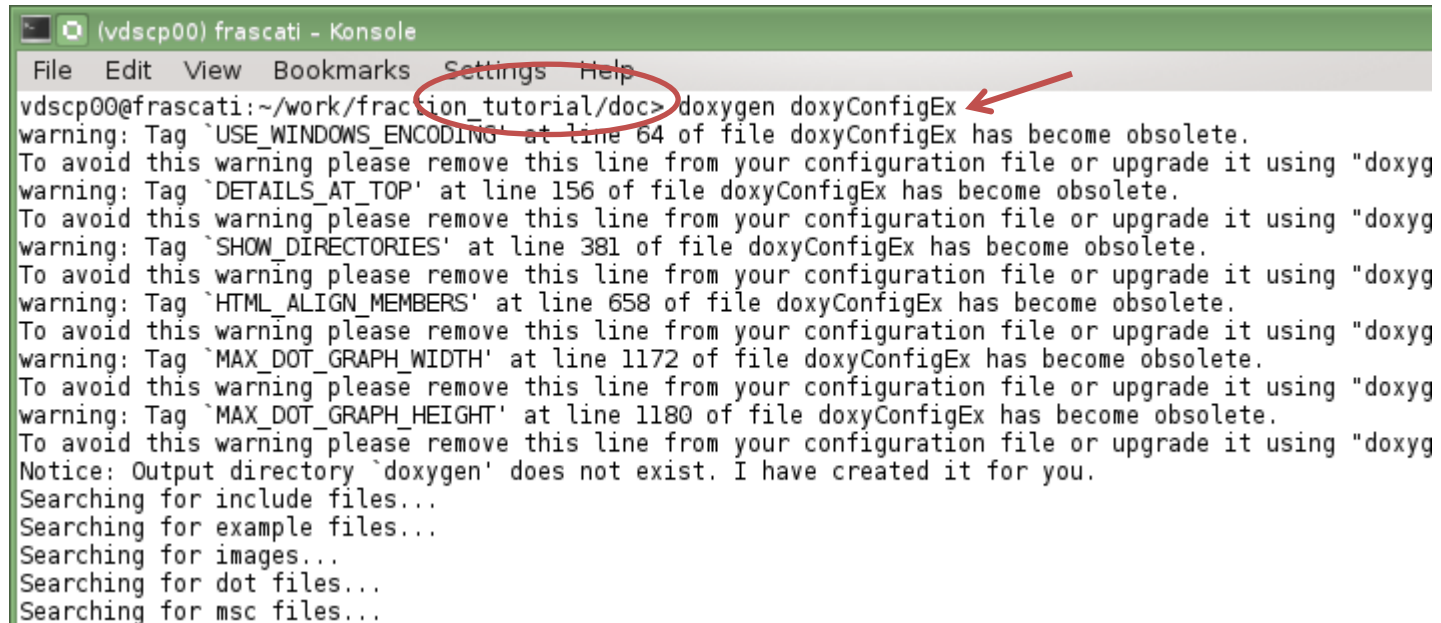
- Doxygen is a program that generates automatically documentation from comments included in the code
 - information about how to format comments in the code for doxygen can be found in:
<http://www.stack.nl/~dimitri/doxygen/manual/docblocks.html>
- Check that the notation used to write the comments in the code of the tutorial follows the doxygen format

Doxygen

- Doxygen needs a configuration file
 - in the directory */doc* resides the configuration file *doxyConfigEx* for the tutorial
 - some important configuration values are:
 - PROJECT_NAME: name of the doxygen project (set to Fraction)
 - OUTPUT_DIRECTORY: folder where documentation will be placed (set to doxygen)
 - INPUT: defines where the code is located (set to ../)
 - GRAPHICAL_HIERARCHY: allows to create a graphical visualization of the class hierarchy
 - GENERATE_HTML: enables generation of html files (set to yes)
- Open the configuration file and have a look to the different option and the corresponding explanations

Doxygen

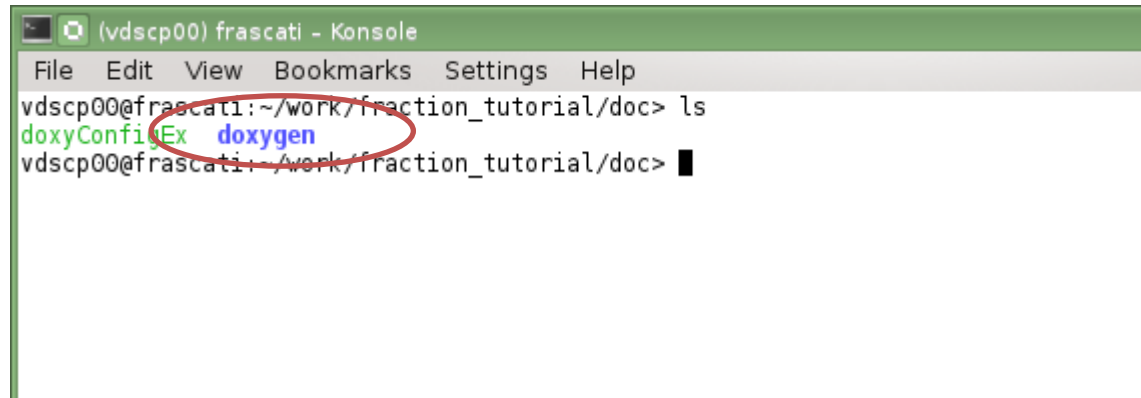
- To run doxygen type from the */doc* folder:
doxygen doxyConfigEx



The screenshot shows a terminal window titled "(vdsdp00) frascati - Konsole". The menu bar includes "File", "Edit", "View", "Bookmarks", "Settings", and "Help". The "Settings" menu is circled in red, and a red arrow points to the command "doxygen doxyConfigEx" in the terminal output. The terminal text is as follows:

```
(vdsdp00) frascati - Konsole
File Edit View Bookmarks Settings Help
vdsdp00@frascati:~/work/fraction_tutorial/doc> doxygen doxyConfigEx
warning: Tag 'USE_WINDOWS_ENCODING' at line 64 of file doxyConfigEx has become obsolete.
To avoid this warning please remove this line from your configuration file or upgrade it using "doxyg
warning: Tag 'DETAILS_AT_TOP' at line 156 of file doxyConfigEx has become obsolete.
To avoid this warning please remove this line from your configuration file or upgrade it using "doxyg
warning: Tag 'SHOW_DIRECTORIES' at line 381 of file doxyConfigEx has become obsolete.
To avoid this warning please remove this line from your configuration file or upgrade it using "doxyg
warning: Tag 'HTML_ALIGN_MEMBERS' at line 658 of file doxyConfigEx has become obsolete.
To avoid this warning please remove this line from your configuration file or upgrade it using "doxyg
warning: Tag 'MAX_DOT_GRAPH_WIDTH' at line 1172 of file doxyConfigEx has become obsolete.
To avoid this warning please remove this line from your configuration file or upgrade it using "doxyg
warning: Tag 'MAX_DOT_GRAPH_HEIGHT' at line 1180 of file doxyConfigEx has become obsolete.
To avoid this warning please remove this line from your configuration file or upgrade it using "doxyg
Notice: Output directory 'doxygen' does not exist. I have created it for you.
Searching for include files...
Searching for example files...
Searching for images...
Searching for dot files...
Searching for msc files...
```

Doxygen



```
(vdscp00) frascati - Konsole
File Edit View Bookmarks Settings Help
vdscp00@frascati:~/work/fraction_tutorial/doc> ls
doxyConfig  Ex  doxygen
vdscp00@frascati:~/work/fraction_tutorial/doc> █
```

- Notice that the folder [/doc/doxygen](#) with all documentation files has been produced, have a look to the html file [/doc/doxygen/index.html](#)