DOC++ 3.4.9 Reference Card
by Steven R. Gould

Comment Styles
Every DOC++ comment defines a manual entry. A manual entry consists of documentation from the DOC++ comment and information from the subsequent declaration. Trailing comments can be used to define manual entries. Enable these by turning on Quantel extensions "-Qc.

/** ... */ C style
/// ... C++ style

// { Defines documentation scope/grouping
// }

//@include:file Includes named file. Wildcards allowed.

DOC++ Declaration Tags
These tags are used immediately before a subsequent declaration. Note that in the following section, the term function refers to a method of a class, or a standalone function.

Tag Description
@author Author of function
@deprecated Function has been deprecated
@doc Long documentation
@exception Documents exceptions thrown
@field Documents fields
@invariant Documents invariants
@memo Short documentation (typically, one line)
@name Function name (overrides DOC++)
@param Documents the named parameter
@postcondition Documents postconditions
@precondition Documents preconditions
@return Documents functions return value
@see Cross reference
@since Version when function was introduced
@version Current version

Inline DOC++ Tags
The following tags are useful when writing documentation for a function, method, variable, and so on.

Tag Description
#text# Corresponds to TeX “\verb!foo!” - outputs “foo” verbatim.
@filename file Force manual entry to go to the named file
{link entry name} Cross-reference to manual entry, name specifies link name (optional).
{date} Insert current date and time
{2G}[param]{file} Insert image, using HTML parameters
{2G}[param][param][param]{file} Insert image, using HTML and TeX parameters, resp. For TeX output, include the ‘graphics’ TeX package
\label{labell} Make a label
\ref{entry} Cross-reference to manual entry
\url[URL]{URL} Make link to web page, URL
\TeX{text} Include the TeX “text” in document - for HTML output, generates GIFs
\includegraphics Same as \includegraphics
\today Same as \today

Supported HTML macros
For best results with both printed (TeX) and online (HTML) documentation, it is recommended that TeX macros are used - see next section - and not the HTML macros given below.

Tag Description
<BR> New line; i.e., line break
</p> New paragraph
<DT> New defined term, typically displays italic text
<DL> Unordered/bulleted list
<DL> Unordered/bulleted list
<DT> Description

Supported TeX macros
For best results with both printed (TeX) and online (HTML) documentation, it is recommended that TeX macros are used - see next section - and not the HTML macros given below.

Macro Description
\em Emphasize enclosed characters
\bf Bold face for enclosed characters
\it Italics enclosed characters
\tt Use fixed font for enclosed characters
\tiny Use small font for enclosed characters
\scriptsize Use script size for enclosed characters
\footnotesize Use footnote size for enclosed characters
\small Use small font for enclosed characters
\Large Use large font for enclosed characters
\large Use large font for enclosed characters
\Huge Use huge font for enclosed characters
\huge Use huge font for enclosed characters
\HUGE Use huge font for enclosed characters

The following TeX macros are all of the form: \begin{name} ... \end{name}
For brevity only the name of the tag is given below.

Macro Description
center Center paragraph
flushleft Left align paragraph
flushright Right align paragraph
verbatim Output enclosed text as is
tabular Defines a table
array Defines an array
itemize Defines a bulleted list of items
enumerate Defines a numbered list of items
description Description (???)
equation Defines an equation
eqarray Equation array (???)

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### Customizing HTML Output

**HTML-specific Command Line Options**

These options are only active when HTML output is selected, i.e., when no `-t` or `-tex` option is used.

<table>
<thead>
<tr>
<th>Long</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>-a</code></td>
<td>tables Use HTML tables</td>
</tr>
<tr>
<td><code>-b</code></td>
<td>tables-border Use HTML tables with borders</td>
</tr>
<tr>
<td><code>-B</code></td>
<td>footer file Use file as HTML footer</td>
</tr>
<tr>
<td><code>-d</code></td>
<td>dir name Specifies output directory for HTML</td>
</tr>
<tr>
<td><code>-f</code></td>
<td>filenames Output source file name on each page</td>
</tr>
<tr>
<td><code>-F</code></td>
<td>filenames-path As above, but output full path</td>
</tr>
<tr>
<td><code>-g</code></td>
<td>gifs Don't generate GIFs for equations/TeX</td>
</tr>
<tr>
<td><code>-G</code></td>
<td>gifs Force re-generation of GIFs</td>
</tr>
<tr>
<td><code>-i</code></td>
<td>no-Inherited Don't show inherited members</td>
</tr>
<tr>
<td><code>-j</code></td>
<td>no-java-graphics Don't use Java applets for class graphs</td>
</tr>
<tr>
<td><code>-k</code></td>
<td>trivial-graphics Generate even trivial class graphs</td>
</tr>
<tr>
<td><code>-K</code></td>
<td>file stylesheet file Use file as stylesheet for generated pages</td>
</tr>
<tr>
<td><code>-m</code></td>
<td>no-members Hide members with no documentation</td>
</tr>
<tr>
<td><code>-M</code></td>
<td>full-toc Show members in Table of Contents</td>
</tr>
<tr>
<td><code>-p</code></td>
<td>no-general Discard general stuff</td>
</tr>
<tr>
<td><code>-s</code></td>
<td>sort Sort entries alphabetically</td>
</tr>
<tr>
<td><code>-t</code></td>
<td>file header file Use file as the HTML header</td>
</tr>
<tr>
<td><code>-v</code></td>
<td>before-group Print groups before doc. groups</td>
</tr>
<tr>
<td><code>-V</code></td>
<td>before-class Print classes before classes</td>
</tr>
<tr>
<td><code>-x</code></td>
<td>suffix x Use x as file extension, instead of .html</td>
</tr>
</tbody>
</table>

**Customizing TeX Output**

**TeX-specific Command Line Options**

These options provide control over the TeX output of DOC++.  

<table>
<thead>
<tr>
<th>Short</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>-c</code></td>
<td>-class-graph Only generates the class graph</td>
</tr>
<tr>
<td><code>-e</code></td>
<td>-env-file Read TeX environment file</td>
</tr>
<tr>
<td><code>-el</code></td>
<td>-index Only generate the index</td>
</tr>
<tr>
<td><code>-eo</code></td>
<td>-style option Adds option to TeX's \documentclass</td>
</tr>
<tr>
<td><code>-ep</code></td>
<td>-package name Adds \usepackage{name} to TeX env.</td>
</tr>
<tr>
<td><code>-et</code></td>
<td>title file Use file as TeX title page</td>
</tr>
<tr>
<td><code>-D</code></td>
<td>depth x Sets min. depth in Table of Contents</td>
</tr>
<tr>
<td><code>-1</code></td>
<td>morev Disable generation of TeX environment</td>
</tr>
<tr>
<td><code>-o</code></td>
<td>file-output file Sets the output filename</td>
</tr>
<tr>
<td><code>-s</code></td>
<td>source Generate formatted source code listing</td>
</tr>
<tr>
<td><code>-x</code></td>
<td>-hide-index Disable index at start of each section</td>
</tr>
</tbody>
</table>

### Customizing the TeX Document

In addition to the above command line options, the TeX output can be customized by editing the style file `docxx.sty`. (Sorry, but there is no documentation on how to do this.)

### Example Command Lines

To generate HTML documentation, I often use something like:

```
  docxx \-p \-u \-d docs/html \-B docs/banner.html \-x docs/name.dox
```

This includes private members, uses up-arrows in class graphs, stores the resulting HTML files in the docs/html subdirectory, uses the docs/banner.html file as a footer on each page, and reads docs/name.dox as the main DOC++ input file.

Similarly, to generate TeX documentation (which is then processed to create a PDF or PS file), I use:

```
  docxx \-p \-u \-t \-o docs/latex/name.tex docs/name.dox
```

### Reference

Author's web site [http://www.stevengould.org/](http://www.stevengould.org/)

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