## GammaLib - Feature #1068

# **Cross link Sphinx and Doxygen docs**

01/09/2014 01:08 PM - Deil Christoph

Status:	Closed	Start date:	01/09/2014
Priority:	Normal	Due date:	
Assigned To:	Knödlseder Jürgen	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:	3rd coding sprint		
Description			
I haven't done this b http://pythonhosted.c	the other way around, i.e. link forn efore, but a quick Google search su org/sphinxcontrib-doxylink/ com/questions/11246637/using-sph ithub.io/breathe/	uggests it should be easy:	
http://image.diku.dk/ they even describe h			o <u>shark.html</u> /managing_the_documentation.html
I'll have a look and tr	y and implement it for GammaLib	when I get a chance.	

## History

## #1 - 01/14/2014 12:00 PM - Deil Christoph

Here's a working prototype how to link from Sphinx to Doxygen using <u>https://pypi.python.org/pypi/sphinxcontrib-doxylink</u> : <u>https://github.com/cdeil/gammalib/compare/issue\_1068</u> It's just for illustration and uses hardcoded PATHs, don't merge it.

Jürgen, can you implement this properly into the GammaLib autotools build? Here's an example how to do it: https://github.com/chrisvana/shark\_copy/blob/master/doc/sphinx\_pages/conf.pv.in#L19

I haven't looked at how to link from Doxygen to Sphinx, I suggest we don't implement this for now and wait if the need comes up.

## #2 - 01/14/2014 12:00 PM - Deil Christoph

- Status changed from New to In Progress
- Assigned To changed from Deil Christoph to Knödlseder Jürgen
- Target version changed from 2nd coding sprint to 00-08-00

## #3 - 01/14/2014 12:04 PM - Deil Christoph

Once this is integrated into the GammaLib build system there's two more things to do:

- Figure out why these errors occur when `doxylink` parses the tag file:
- https://gist.github.com/cdeil/8416583
- Go through the RST docs and add :doxy: directives for all the GammaLib classes / functions.

I could quickly do this, so please re-assign to me if you want me to.

## #4 - 01/19/2014 02:00 AM - Knödlseder Jürgen

- Target version changed from 00-08-00 to 2nd coding sprint

## #5 - 01/31/2014 12:03 PM - Knödlseder Jürgen

Following actions are needed:

- change conf.py to conf.py.in to make the script configurable
- check whether the special Sphinx python package exists on the system (in configure.ac)
- · modify conf.py.in to add automake options / directives
- add generation of this file to configure.ac

#### #6 - 07/08/2014 07:58 PM - Deil Christoph

Turns out no changes to the build system are needed.

Could you please review this: https://github.com/cdeil/gammalib/compare/issue\_1068

I plan to continue working on the docs in the next few days, but maybe it would make sense to merge this now and continue in a new branch?

#### #7 - 07/09/2014 12:55 AM - Knödlseder Jürgen

- Status changed from In Progress to Resolved
- Target version changed from 2nd coding sprint to 3rd coding sprint
- % Done changed from 0 to 100

I merged in the change. So I close the issue.

#### #8 - 07/09/2014 09:25 AM - Knödlseder Jürgen

- Status changed from Resolved to In Progress
- % Done changed from 100 to 80

Not yet finished, reopen.

#### #9 - 07/09/2014 09:29 AM - Deil Christoph

There's two remaining small issues ... I've emailed the sphinxcontrib-doxylink author yesterday ... simplest to just paste the email here than to re-describe the issue:

On 08 Jul 2014, at 14:16, Christoph Deil < deil.christoph@gmail.com > wrote:

Dear Matt,

thanks for creating sphinxcontrib-doxylink!!!

I am currently adding it to GammaLib [1] and I'm getting a few parser errors [2]. The tag file is here: [3].

Please let me know if you need any other info or if the error is in our code or Doxygen file.

## Cheers, Christoph

[1] http://gammalib.sourceforge.net/

[2] https://gist.github.com/cdeil/70fcaa3c0127305bac5a

<sup>[3]</sup> https://gist.githubusercontent.com/cdeil/3da996b6848f4c825dfc/raw/GammaLib.tag

Hello again,

another issue I noticed is that linking to some methods doesn't work (whereas most methods work fine).

E.g. I wanted to link via :doxy:`GObservation::model` to this method: http://gammalib.sourceforge.net/doxygen/classGObservation.html#a80484fbd8d218c0dc5264e600851de09

but I get this error:

/Users/deil/code/gammalib/doc/source/user\_manual/modules/model.rst:27: WARNING: Could not find match for `GObservation::model` in `doc/html/doxygen/GammaLib.tag` tag file

I think this is the relevant entry in the GammaLib.tag file so it should work?

<member kind="function" virtualness="virtual"&gt;

<type&gt;virtual double&lt;/type&gt;

<name&gt;model&lt;/name&gt;

<anchorfile&gt;classGObservation.html&lt;/anchorfile&gt;

<anchor&gt;a80484fbd8d218c0dc5264e600851de09&lt;/anchor&gt;

<arglist&gt;(const GModels & amp;models, const GEvent & amp;event, GVector \*gradient=NULL) const &lt;/arglist&gt; &lt;/member&gt;

Cheers, Christoph

## #10 - 07/10/2014 11:02 AM - Deil Christoph

At the moment the online docs have broken links that look like

:doxy:`GOptimizerFunction`

all over the place because `sphinxcontrib.doxylink` is not installed on the machine that runs `make doc`.

See e.g. here: http://gammalib.sourceforge.net/user\_manual/modules/opt.html

#### #11 - 07/11/2014 03:01 PM - Knödlseder Jürgen

This needs installation of <u>https://pypi.python.org/pypi/sphinxcontrib-doxylink</u> on the server that is used to build the documentation. Seems not trivial for the moment, but can certainly be solved.

## #12 - 10/30/2014 11:52 AM - Knödlseder Jürgen

- Status changed from In Progress to Closed
- % Done changed from 80 to 100

I moved the documentation generation to a newer server, and this works now properly.