

Making XML Editable on the Web

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@georgebina #xmlprague



XAAS – XML Authoring as Service

oXygen XML Web Author =

A REST service to interact with XML content!

Parameters

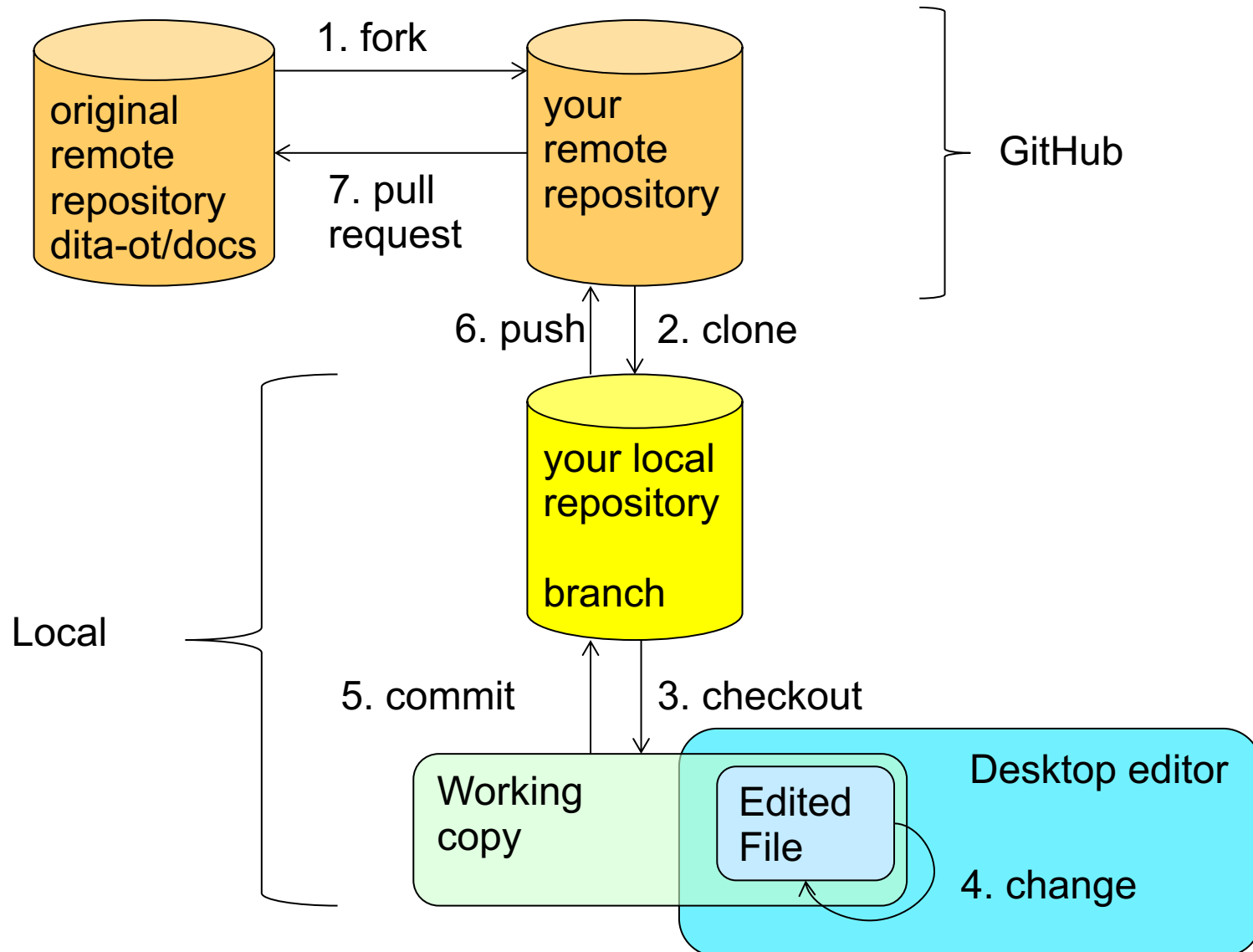
- **url** – pointing to the file to edit
- **ditamap** – pointing to a DITA map for editing context
- ... – more parameters are available

Integration is key

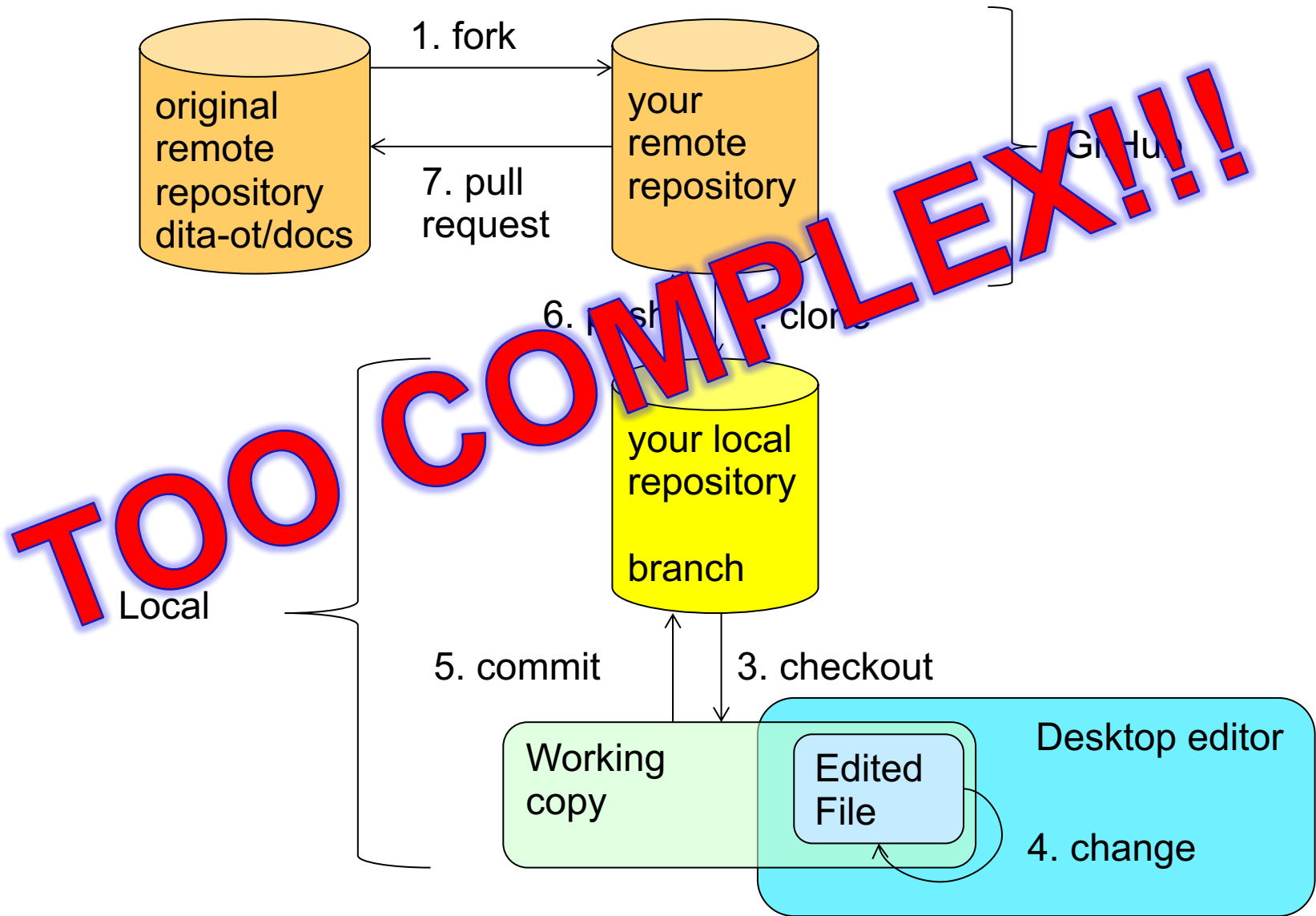
web XML editor \neq opening XML to edit in browser

The real power of a web editor can be seen when it is integrated to optimize or to enable a workflow!

GitHub contribution workflow



GitHub contribution workflow



Hide GitHub complexity

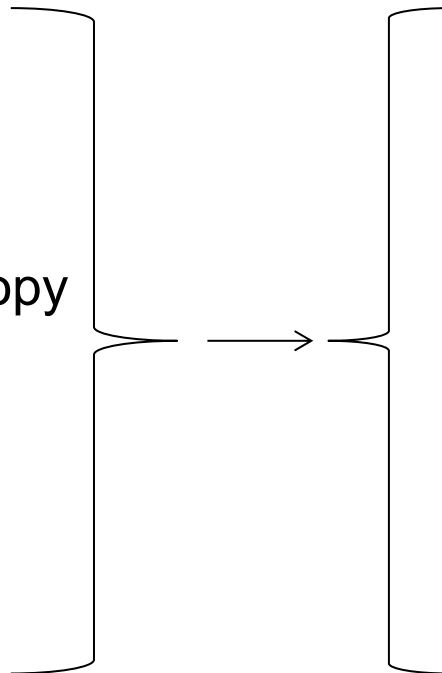
Automate parts of the contribution workflow

From

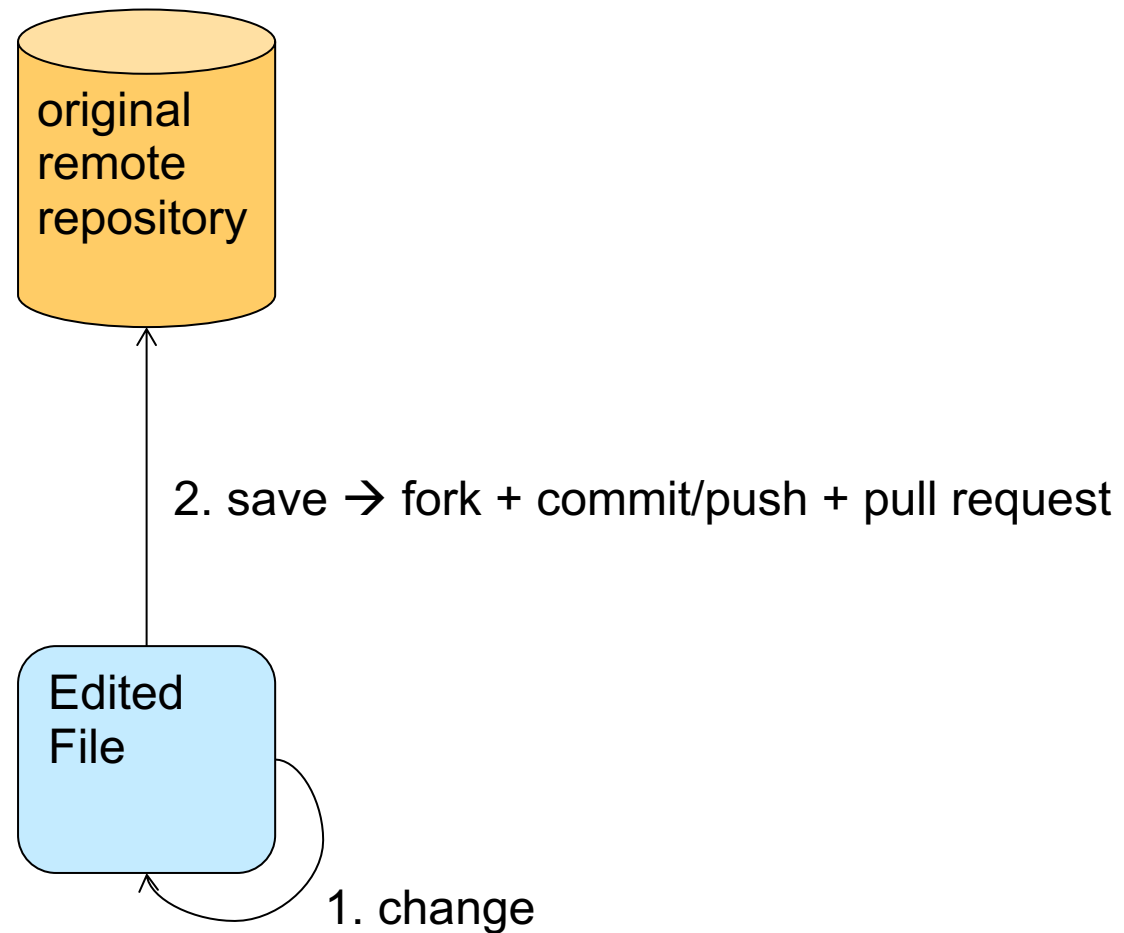
- Fork remote
- Clone locally
- Branch
- Checkout working copy
- **Change**
- **Commit locally**
- Push to remote
- Send pull request

To

- **Change**
- **Save/Commit**



Simplified workflow



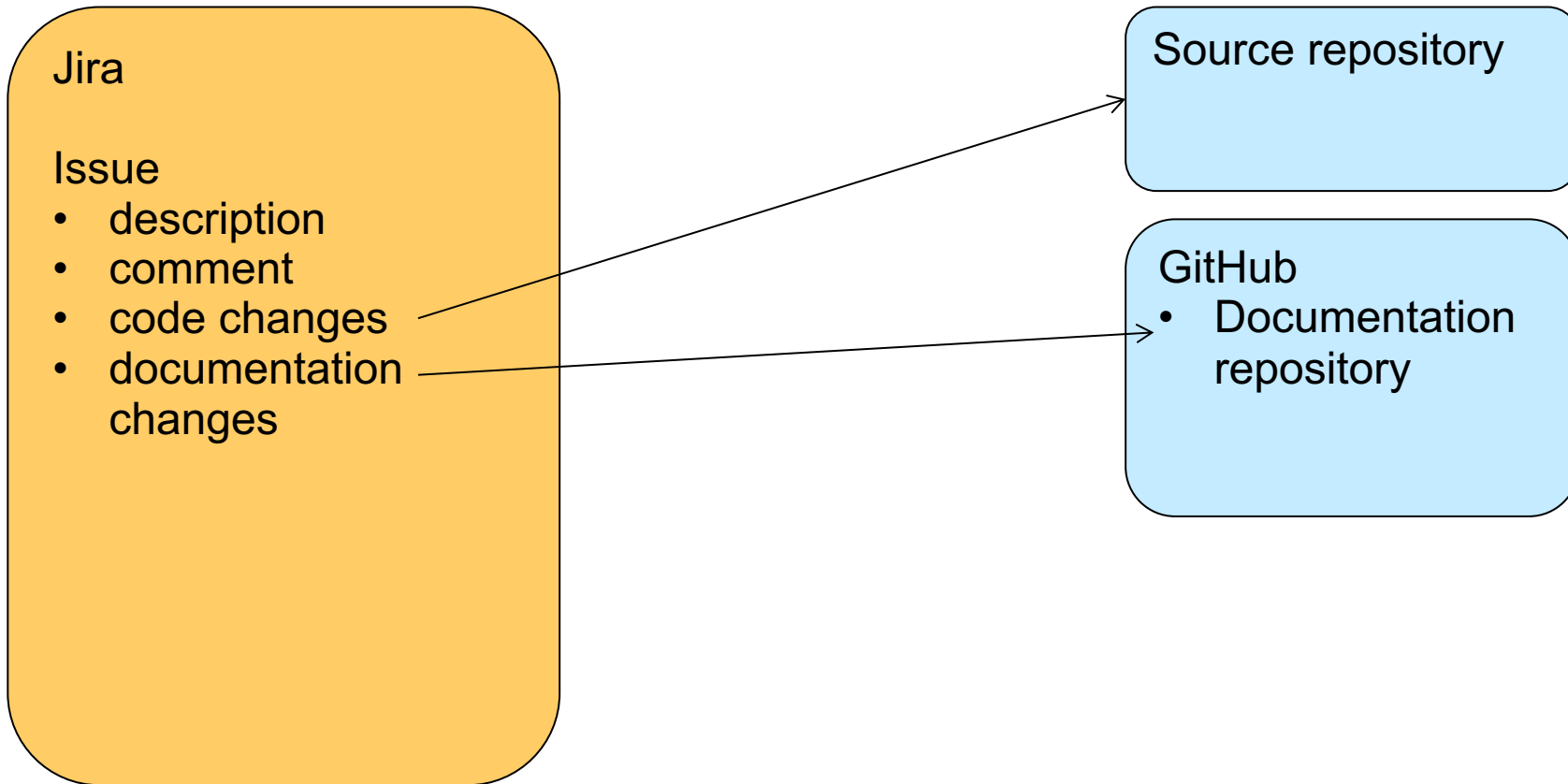
Technical support to documentation

A support incident is an opportunity to improve your product documentation!

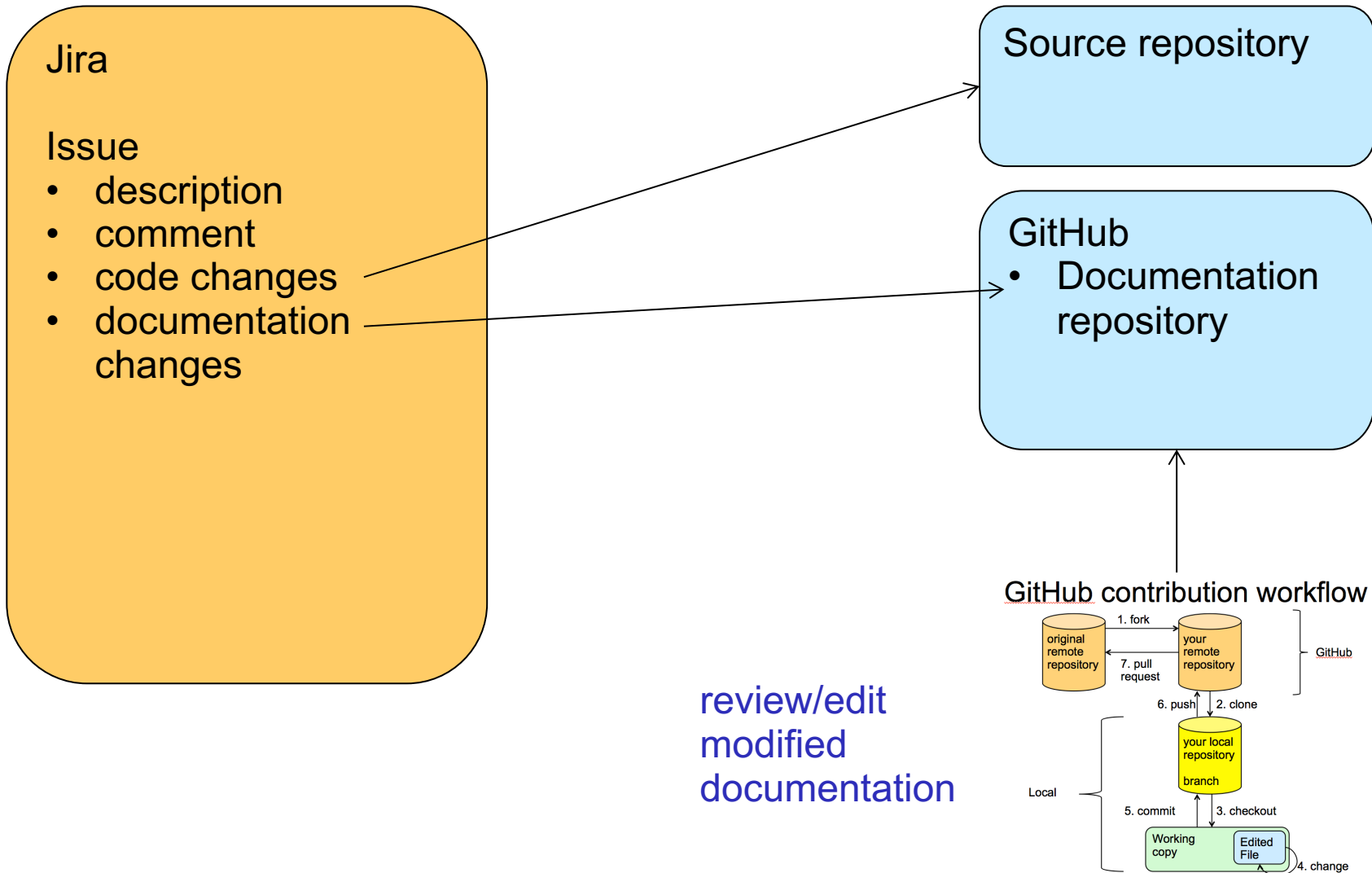
Review product documentation

Involve developers to review product documentation!

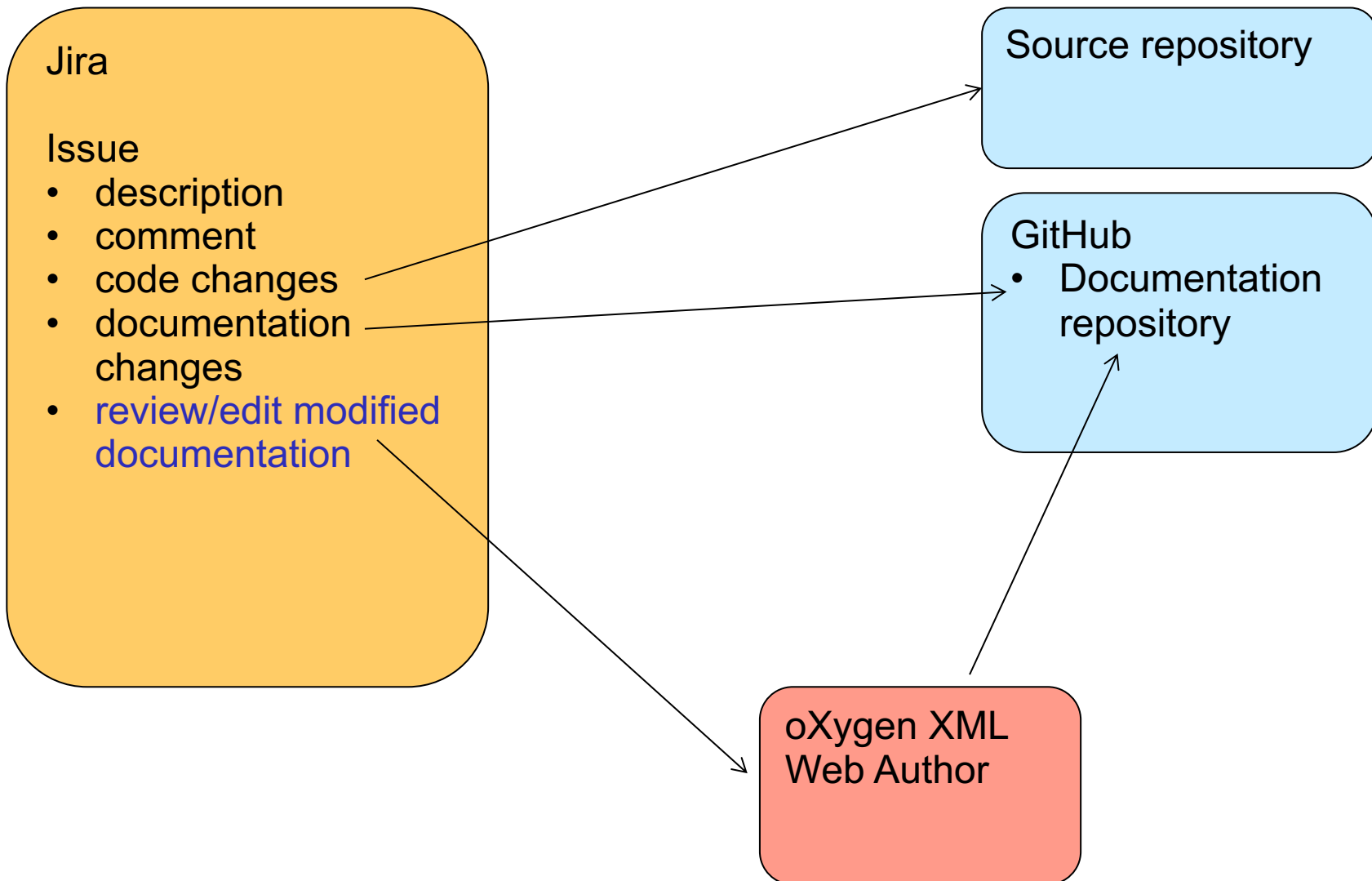
Review documentation



Review documentation




Review documentation



Email notifications with links

From	Subject	Date	Loca...
Octavian Nadolu [syncro] (JIRA)	[JIRA] Resolved: (EXM-37353) [Merge] Merge all non-conflicting changes	28/09/16 ...	_messag...
Florin Avram [syncro] (JIRA)	[JIRA] Comment Edited: (EXM-37353) [Merge] Merge all non-conflicting changes	12/10/16 1...	_messag...
Florin Avram [syncro] (JIRA)	[JIRA] Comment Edited: (EXM-37353) [Merge] Merge all non-conflicting changes	12/10/16 1...	_messag...
Web Author Review Bot (JIRA)	[JIRA] Commented: (EXM-37353) [Merge] Merge all non-conflicting changes	13/10/16 ...	_messag...

From Web Author Review Bot (JIRA) <jira-alias-20052011-TOKEN@sync.ro> ★
Subject [JIRA] Commented: (EXM-37353) [Merge] Merge all non-conflicting changes 13/10/16 09:54
To Me <george@sync.ro> ★
Tags Rezolvat

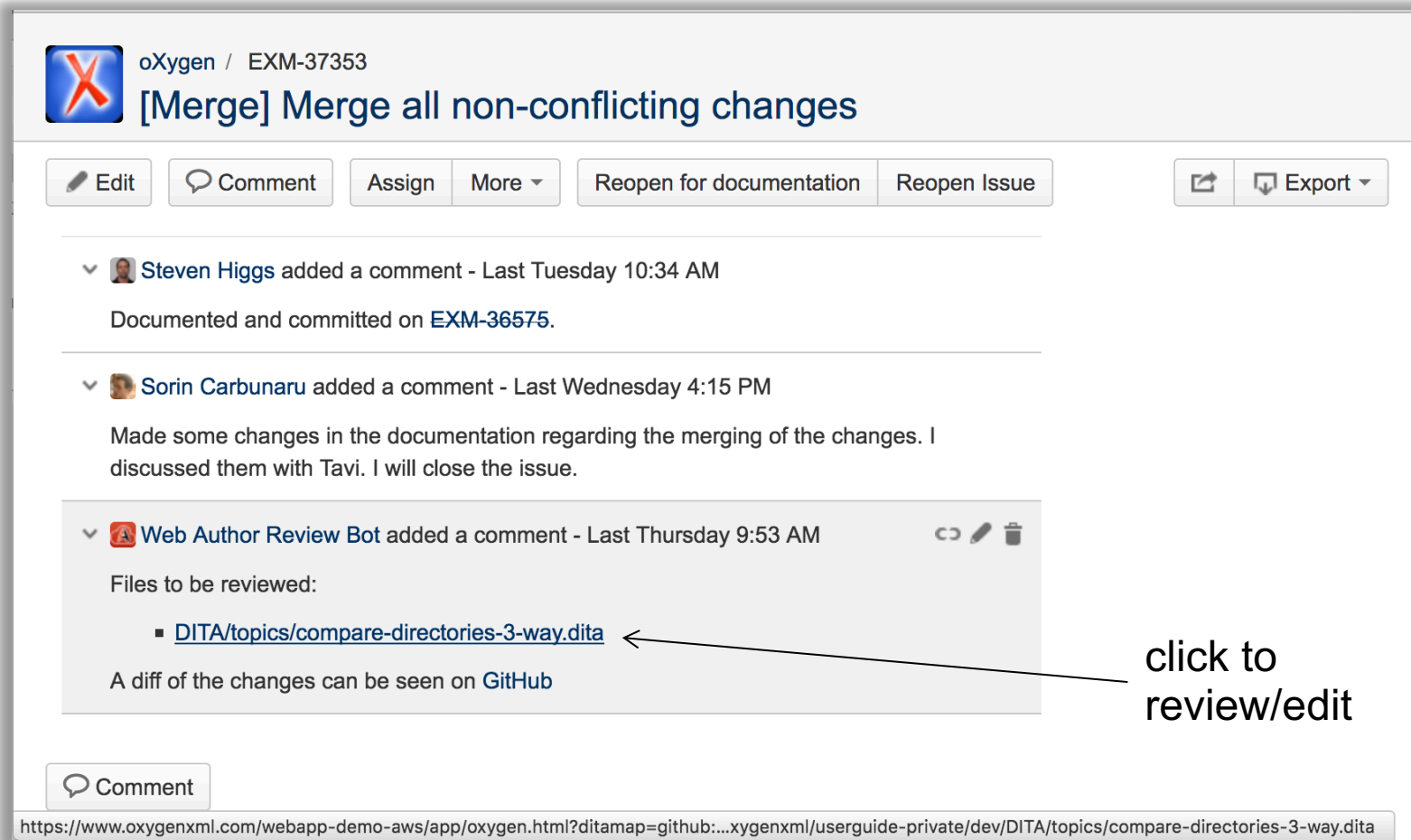
 [Web Author Review Bot](#) commented on [EXM-37353](#)
[Merge] Merge all non-conflicting changes


Files to be reviewed:

- [DITA/topics/compare-directories-3-way.dita](#)


A diff of the changes can be seen on [GitHub](#)


Link to changes topics




 oXygen / EXM-37353
[Merge] Merge all non-conflicting changes

[Edit](#) [Comment](#) [Assign](#) [More ▾](#) [Reopen for documentation](#) [Reopen Issue](#) [Export ▾](#)

▼  **Steven Higgs** added a comment - Last Tuesday 10:34 AM
Documented and committed on [EXM-36575](#).

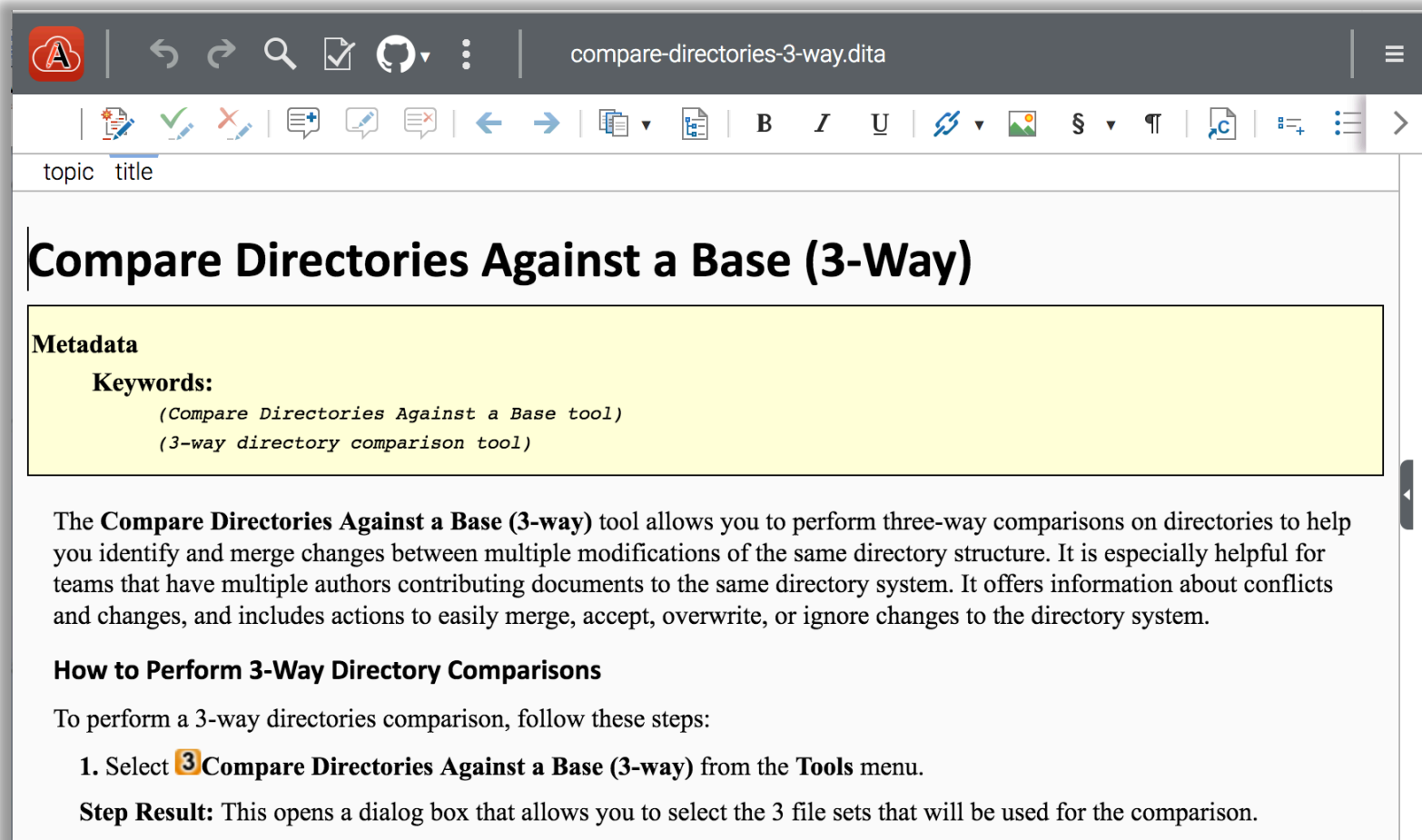
▼  **Sorin Carbutaru** added a comment - Last Wednesday 4:15 PM
Made some changes in the documentation regarding the merging of the changes. I discussed them with Tavi. I will close the issue.

▼  **Web Author Review Bot** added a comment - Last Thursday 9:53 AM ↻ ✎ 🗑
Files to be reviewed:
▪ [DITA/topics/compare-directories-3-way.dita](#) ← **click to review/edit**
A diff of the changes can be seen on [GitHub](#)

[Comment](#)

<https://www.oxygenxml.com/webapp-demo-aws/app/oxygen.html?ditamap=github:...xygenxml/userguide-private/dev/DITA/topics/compare-directories-3-way.dita>

Immediate edit access

A screenshot of the Oxygen XML Editor interface. The browser address bar shows "compare-directories-3-way.dita". The editor toolbar includes icons for undo, redo, search, and various editing tools. The main content area displays the title "Compare Directories Against a Base (3-Way)" and a metadata section with keywords: "(Compare Directories Against a Base tool)" and "(3-way directory comparison tool)". Below this, there is a paragraph describing the tool's functionality and a section titled "How to Perform 3-Way Directory Comparisons" with a numbered list of steps.

topic title

Compare Directories Against a Base (3-Way)

Metadata

Keywords:

- (Compare Directories Against a Base tool)*
- (3-way directory comparison tool)*

The **Compare Directories Against a Base (3-way)** tool allows you to perform three-way comparisons on directories to help you identify and merge changes between multiple modifications of the same directory structure. It is especially helpful for teams that have multiple authors contributing documents to the same directory system. It offers information about conflicts and changes, and includes actions to easily merge, accept, overwrite, or ignore changes to the directory system.

How to Perform 3-Way Directory Comparisons

To perform a 3-way directories comparison, follow these steps:

1. Select **3 Compare Directories Against a Base (3-way)** from the **Tools** menu.

Step Result: This opens a dialog box that allows you to select the 3 file sets that will be used for the comparison.

Click to see changes

9 DITA/topics/compare-directories-3-way.dita View

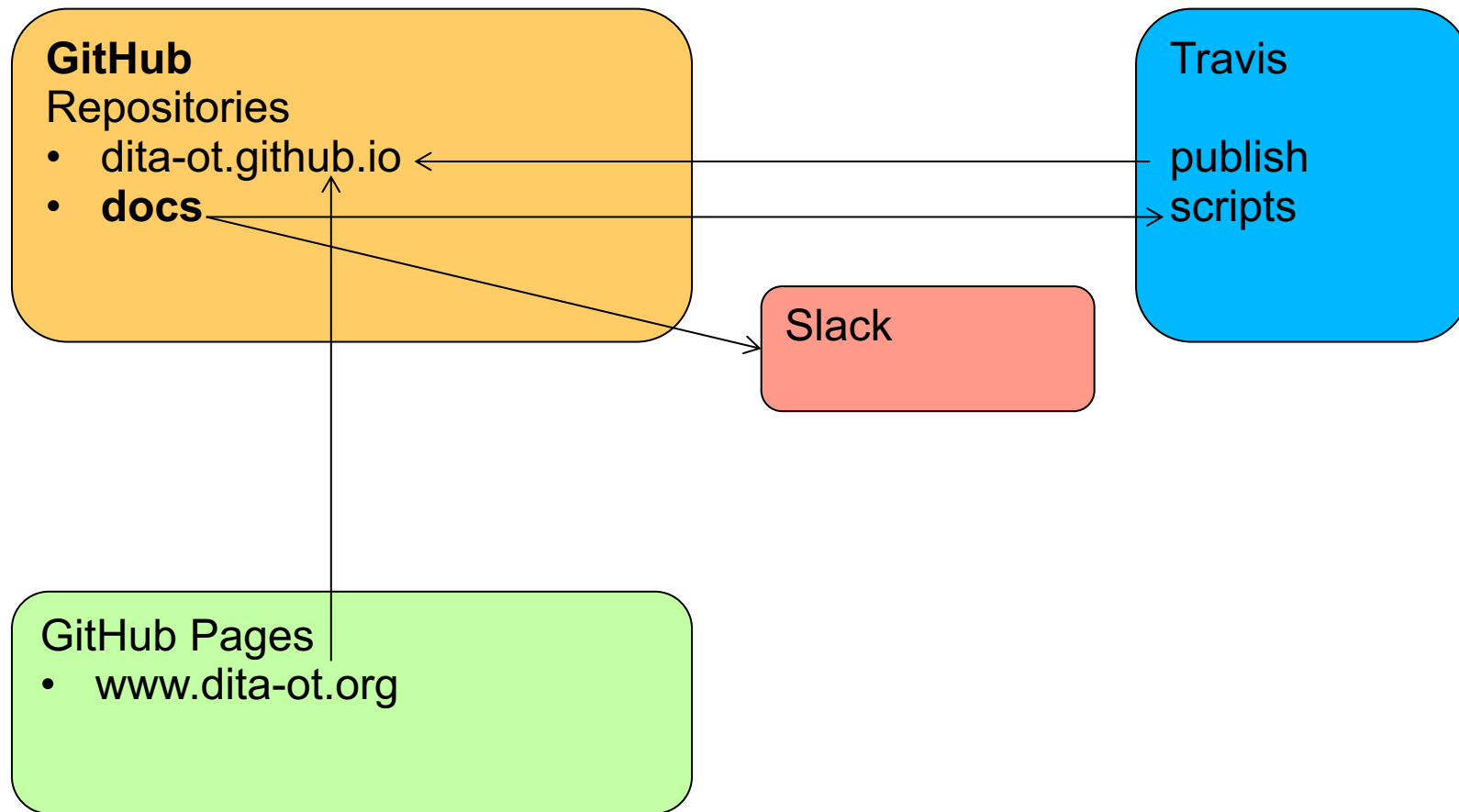
		@@ -117,8 +117,8 @@
117	117	<dt><uicontrol><image href="../img/AcceptNonConflicting16.png"/>Accept
118	118	non-conflicting changes</uicontrol></dt>
119	119	<dd>Merges all non-conflicting changes made by others (in the selected files)
120	-	with your changes. If there is a conflict in a file that was modified by you
121	-	and others, it will try to merge it automatically (if possible).</dd>
	120	with your changes. For the files that were modified by both you and others,
	121	the tool will try to merge the changes automatically.</dd>
122	122	</dentry>
123	123	<dentry>
124	124	<dt><uicontrol>Overwrite your changes</uicontrol></dt>
		@@ -137,9 +137,8 @@
137	137	<dt><uicontrol><image href="../img/CompareDirectories3WayAllIncoming16.png"/>Accept all
138	138	non-conflicting changes</uicontrol></dt>
139	139	<dd>Click this button to accept all non-conflicting changes (in all files) made by
140	-	others and merge them with your changes. If there is a conflict in any of the files
141	-	that were modified by you and others, it will try to merge them automatically (if
142	-	possible).</dd>
	140	others and merge them with your own changes. For the files that were modified by both
	141	you and others, the tool will try to merge the changes automatically.</dd>
143	142	</dentry>
144	143	<dentry>

DITA-OT documentation

Services used by the DITA-OT documentation

- **GitHub**
 - storage
 - versioning
 - access control
- **GitHub Pages**
 - web publishing
- **Travis**
 - automate publishing
- **Slack**
 - project communication

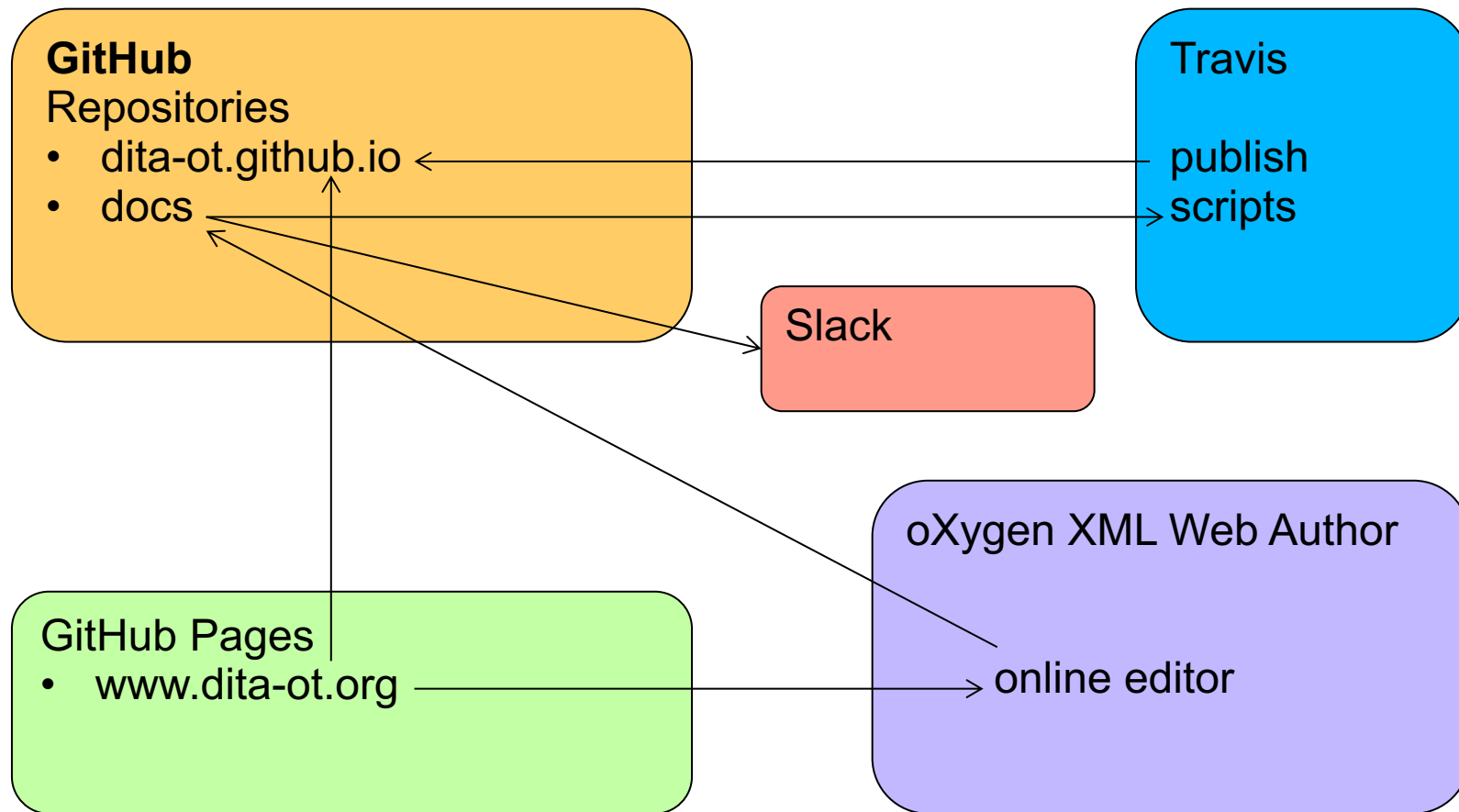
And they are connected



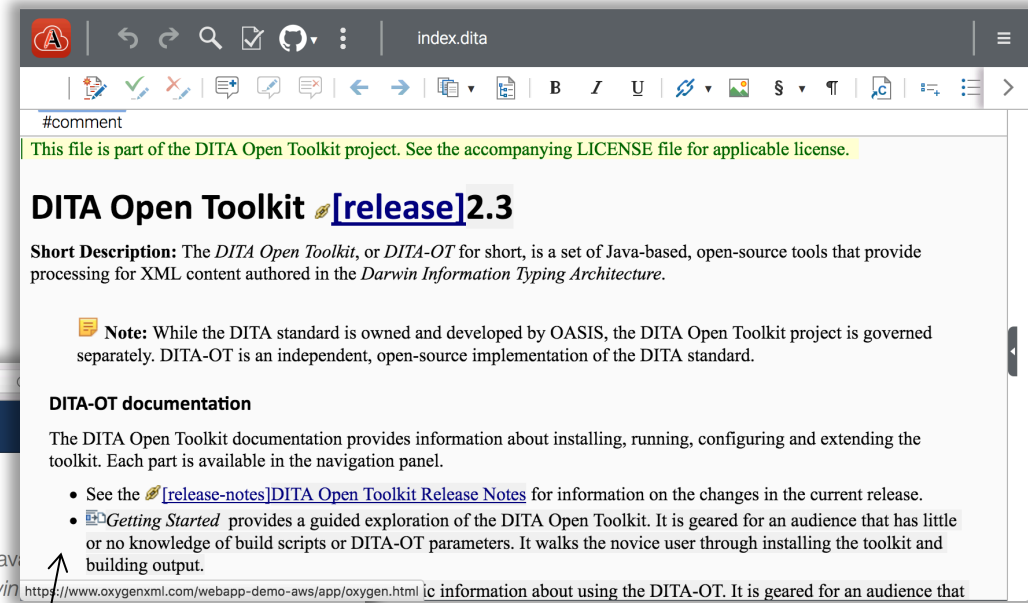
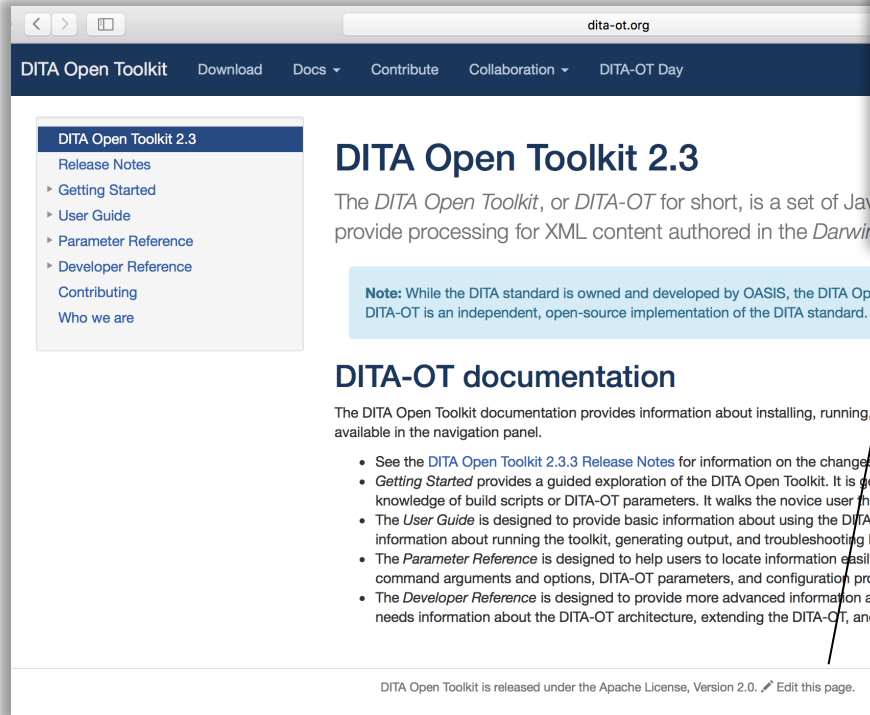
New service – XML authoring

- **GitHub**
 - storage
 - versioning
 - access control
- **oxygen XML Web Author**
 - [XML Authoring](#)
- **GitHub Pages**
 - web publishing
- **Travis**
 - automate publishing
- **Slack**
 - project communication

And we integrate it in the workflow

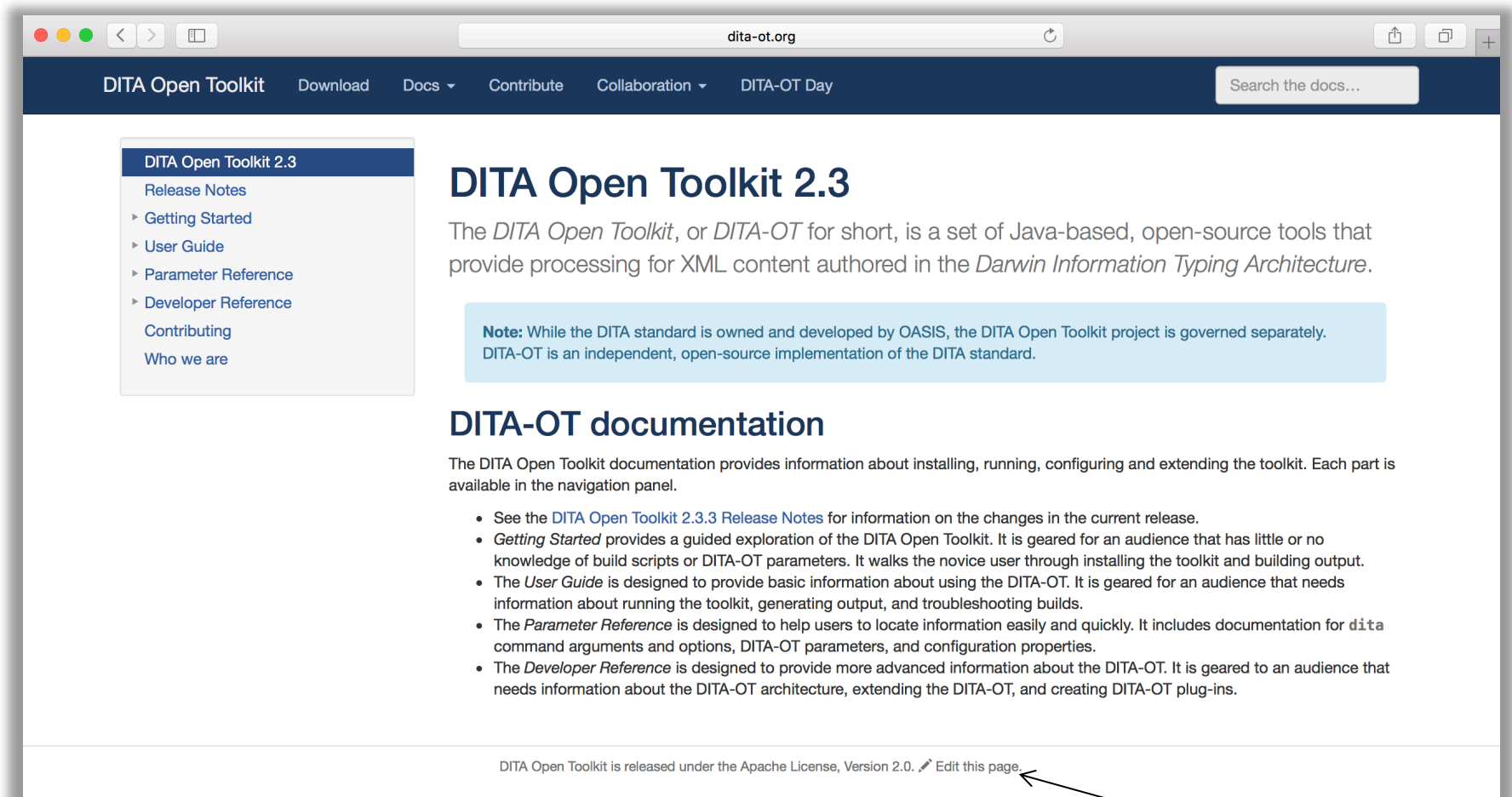


Click on website to edit its content



DITA-OT documentation website

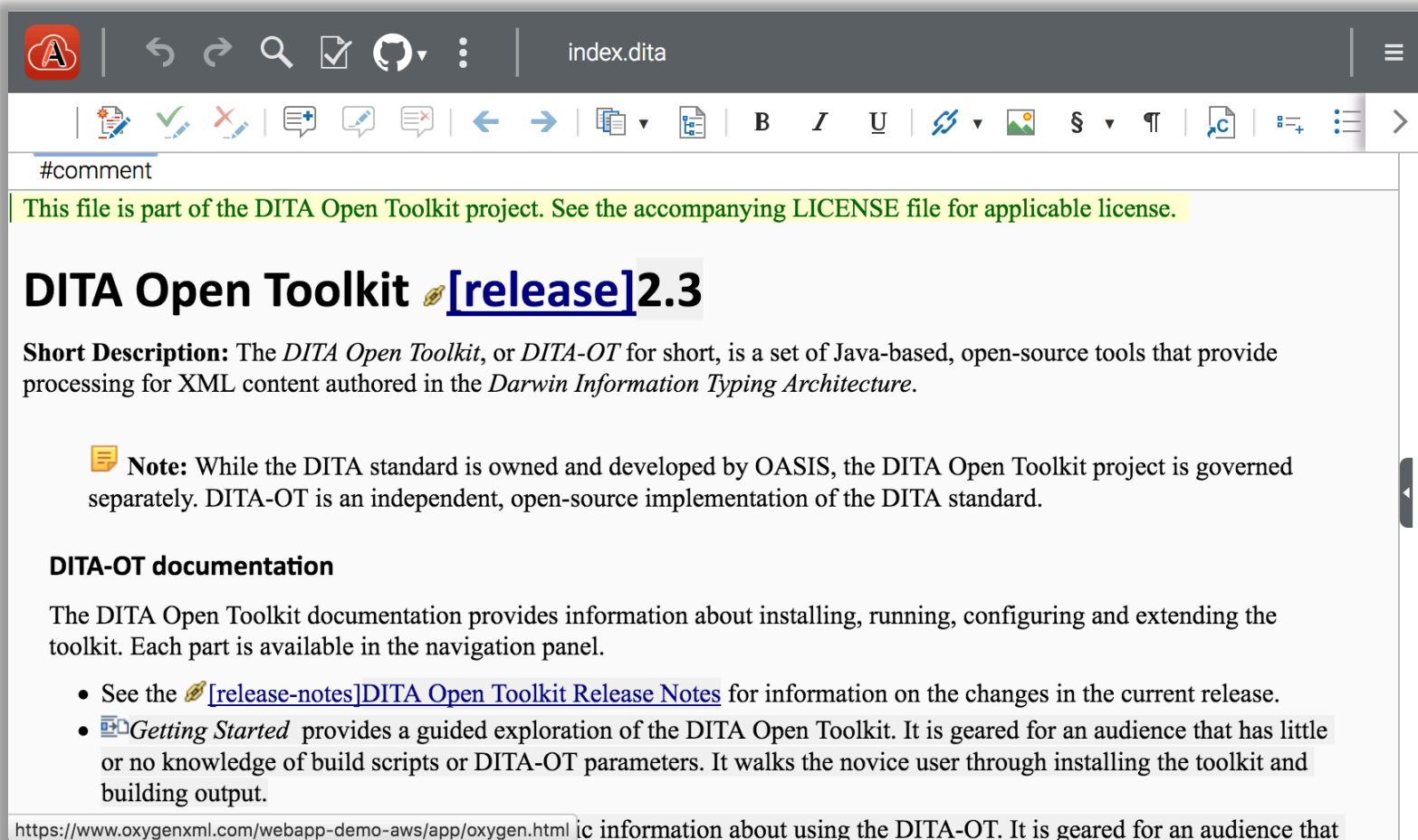
<http://www.dita-ot.org/dev/>



The screenshot shows a web browser window displaying the DITA-OT documentation website. The browser's address bar shows the URL <http://www.dita-ot.org/dev/>. The website's navigation bar includes links for "DITA Open Toolkit", "Download", "Docs", "Contribute", "Collaboration", and "DITA-OT Day", along with a search box labeled "Search the docs...". A left-hand navigation menu lists items such as "DITA Open Toolkit 2.3", "Release Notes", "Getting Started", "User Guide", "Parameter Reference", "Developer Reference", "Contributing", and "Who we are". The main content area features the heading "DITA Open Toolkit 2.3" and a paragraph describing the toolkit as a set of Java-based, open-source tools for processing XML content. A light blue note box contains text about the project's governance. Below this is the section "DITA-OT documentation" with a paragraph and a bulleted list of links to various guides. At the bottom of the page, a footer line reads "DITA Open Toolkit is released under the Apache License, Version 2.0. [✎ Edit this page.](#)". An arrow points from the text "edit link" to this link.

edit link

Edit the source content



The screenshot shows the Oxygen XML Editor interface. The top toolbar includes navigation and editing icons. The main content area displays the following text:

#comment

This file is part of the DITA Open Toolkit project. See the accompanying LICENSE file for applicable license.

DITA Open Toolkit [\[release\]](#)2.3

Short Description: The *DITA Open Toolkit*, or *DITA-OT* for short, is a set of Java-based, open-source tools that provide processing for XML content authored in the *Darwin Information Typing Architecture*.

Note: While the DITA standard is owned and developed by OASIS, the DITA Open Toolkit project is governed separately. DITA-OT is an independent, open-source implementation of the DITA standard.

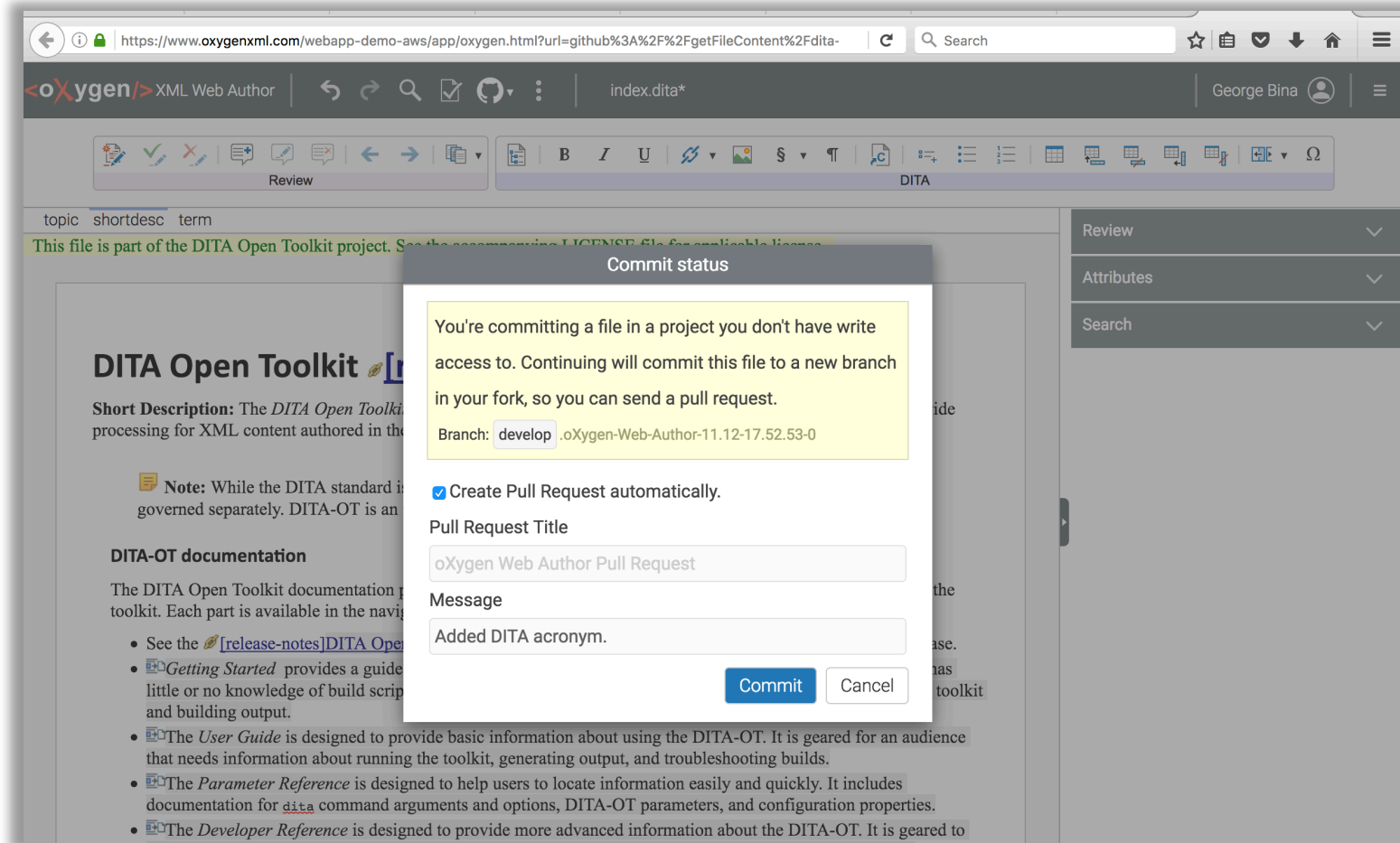
DITA-OT documentation

The DITA Open Toolkit documentation provides information about installing, running, configuring and extending the toolkit. Each part is available in the navigation panel.

- See the [\[release-notes\]DITA Open Toolkit Release Notes](#) for information on the changes in the current release.
- [Getting Started](#) provides a guided exploration of the DITA Open Toolkit. It is geared for an audience that has little or no knowledge of build scripts or DITA-OT parameters. It walks the novice user through installing the toolkit and building output.

<https://www.oxygenxml.com/webapp-demo-aws/app/oxygen.html> ic information about using the DITA-OT. It is geared for an audience that

Save to send a request for change



xproc.org and exproc.org

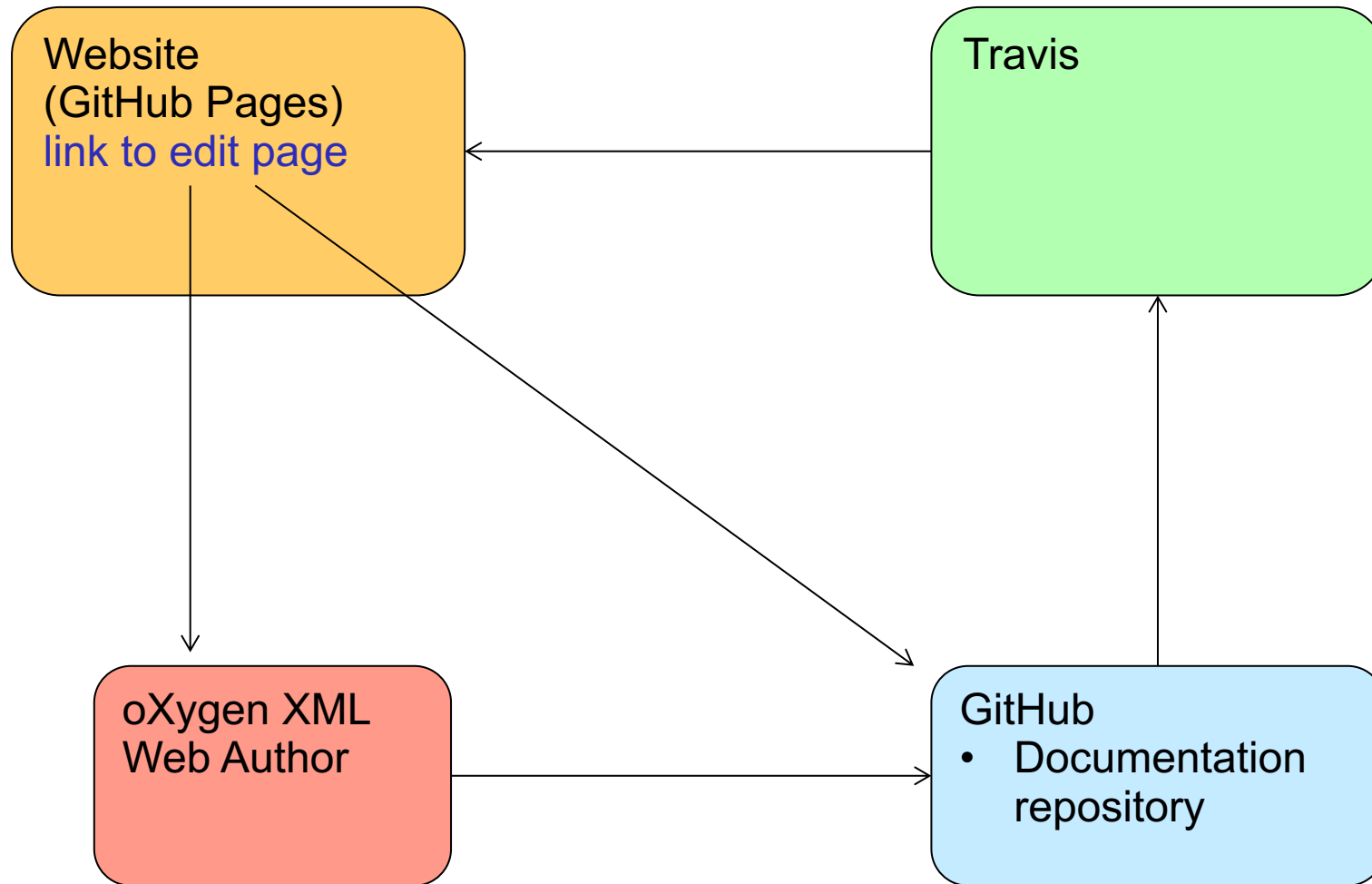
Similar services (GitHub, Travis, GitHub Pages)
but this time the source is DocBook.

Integrates the web authoring via the “Edit this
page on GitHub” links

<http://www.xproc.org>

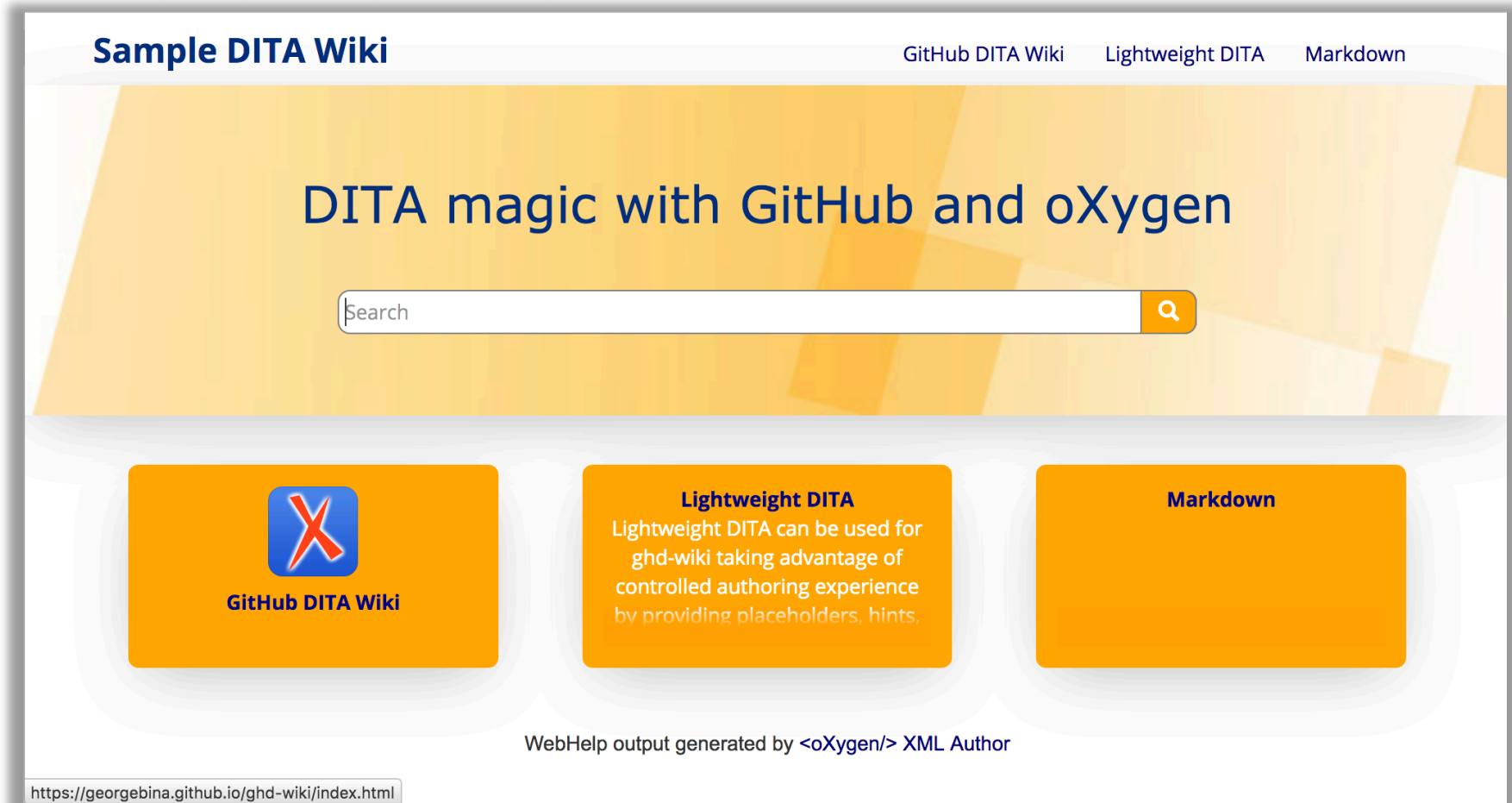
<http://www.exproc.org>

DITA+Markdown based Wiki

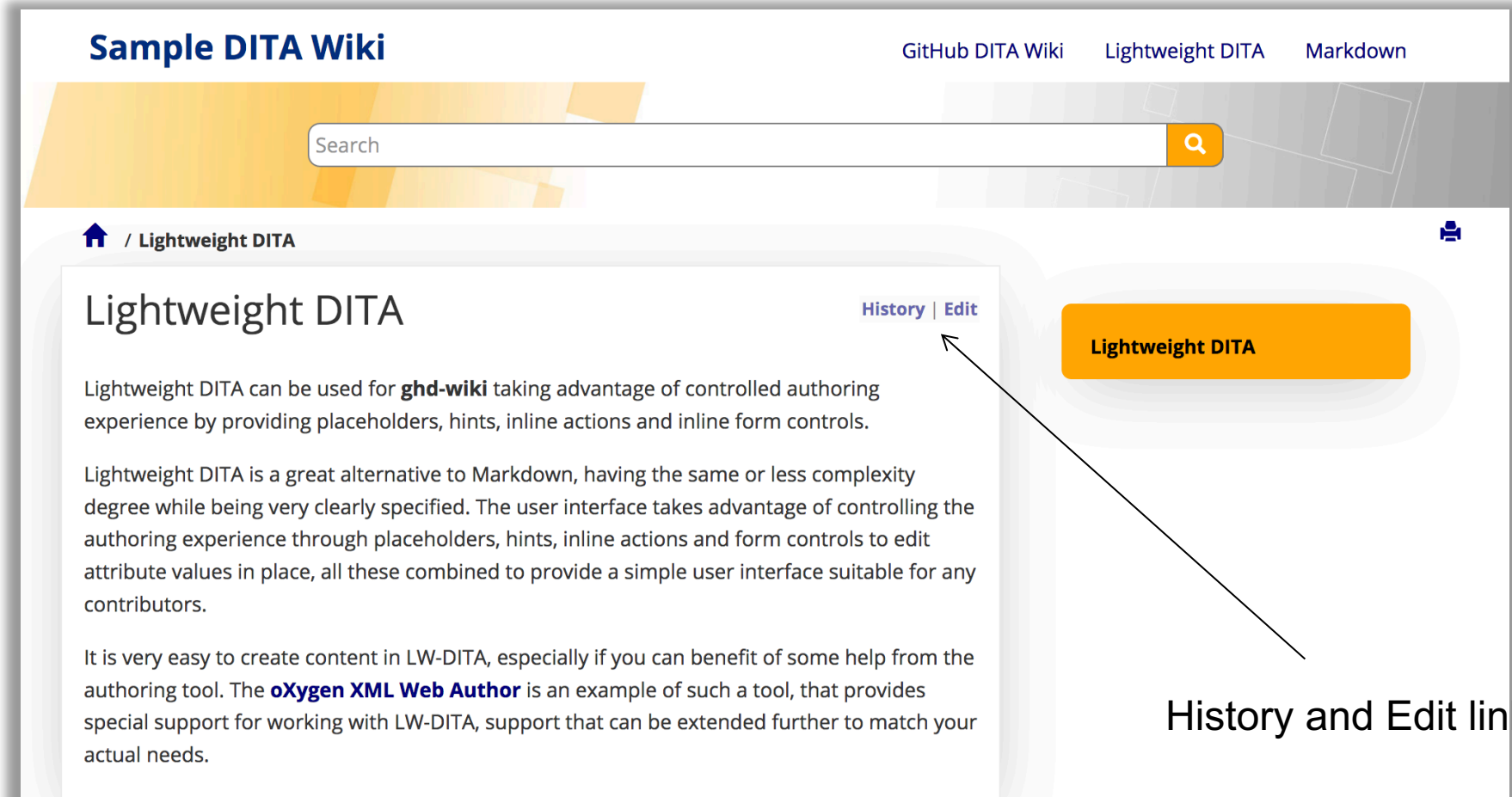


Website content

<https://georgebina.github.io/ghd-wiki/>

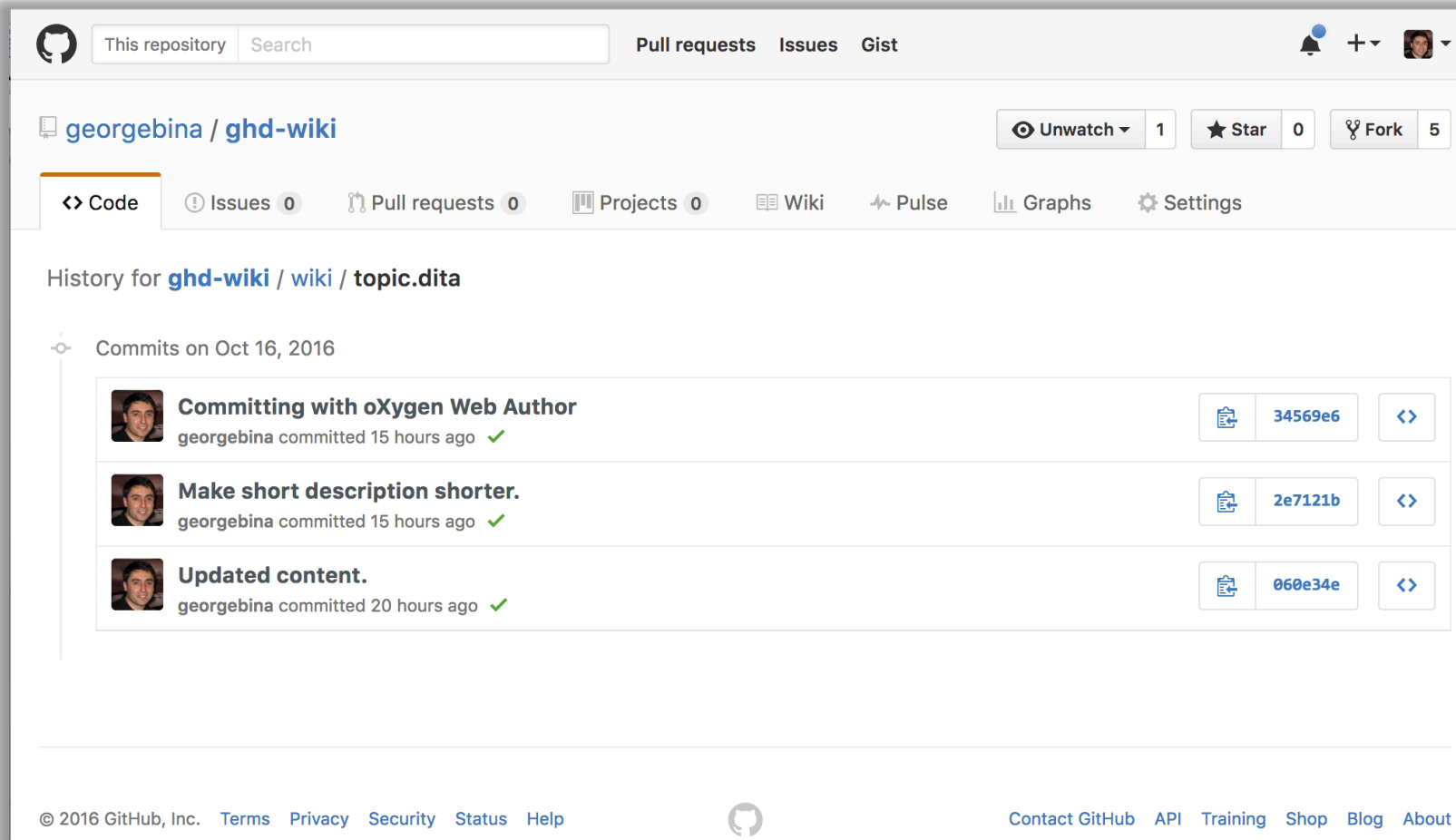
A screenshot of a web page titled "Sample DITA Wiki". The page has a navigation bar with links for "GitHub DITA Wiki", "Lightweight DITA", and "Markdown". The main content area features a large orange banner with the text "DITA magic with GitHub and oXygen". Below the banner is a search bar with the placeholder text "Search" and a magnifying glass icon. At the bottom, there are three orange boxes: the first contains the oXygen logo and the text "GitHub DITA Wiki"; the second contains the text "Lightweight DITA" and a description: "Lightweight DITA can be used for ghd-wiki taking advantage of controlled authoring experience by providing placeholders, hints."; the third contains the text "Markdown". At the very bottom of the page, it says "WebHelp output generated by <oXygen/> XML Author". The URL "https://georgebina.github.io/ghd-wiki/index.html" is visible in the bottom left corner of the screenshot.

Lightweight DITA topic

A screenshot of a web application titled "Sample DITA Wiki". The page has a navigation bar with links for "GitHub DITA Wiki", "Lightweight DITA", and "Markdown". Below the navigation bar is a search bar with the text "Search" and a magnifying glass icon. The main content area shows a breadcrumb trail: a home icon followed by "/ Lightweight DITA". The title of the page is "Lightweight DITA". To the right of the title are two links: "History" and "Edit". Below the title is a paragraph of text: "Lightweight DITA can be used for **ghd-wiki** taking advantage of controlled authoring experience by providing placeholders, hints, inline actions and inline form controls." This is followed by another paragraph: "Lightweight DITA is a great alternative to Markdown, having the same or less complexity degree while being very clearly specified. The user interface takes advantage of controlling the authoring experience through placeholders, hints, inline actions and form controls to edit attribute values in place, all these combined to provide a simple user interface suitable for any contributors." The final paragraph states: "It is very easy to create content in LW-DITA, especially if you can benefit of some help from the authoring tool. The **oxygen XML Web Author** is an example of such a tool, that provides special support for working with LW-DITA, support that can be extended further to match your actual needs." On the right side of the page, there is a yellow button labeled "Lightweight DITA". An arrow points from the text "History and Edit links" to the "History | Edit" links.

History and Edit links

Revisions history




This screenshot shows the GitHub interface for the repository `georgebina / ghd-wiki`. The page displays the commit history for the file `topic.dita` in the `wiki` directory. The repository has 1 watcher, 0 stars, and 5 forks. The commit history shows three recent commits by `georgebina` on October 16, 2016, all marked as successful with a green checkmark.

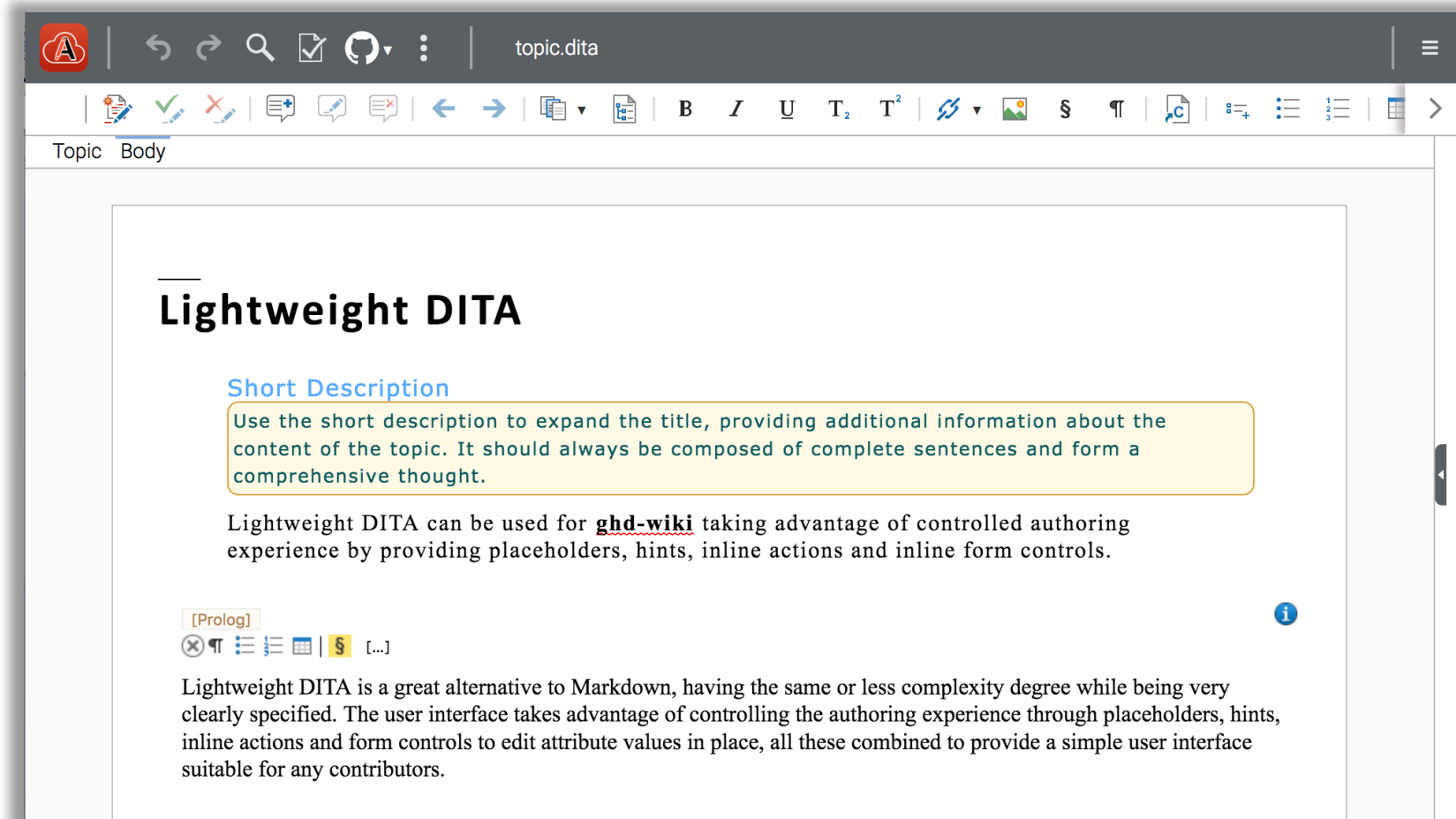
History for `ghd-wiki / wiki / topic.dita`

Commits on Oct 16, 2016

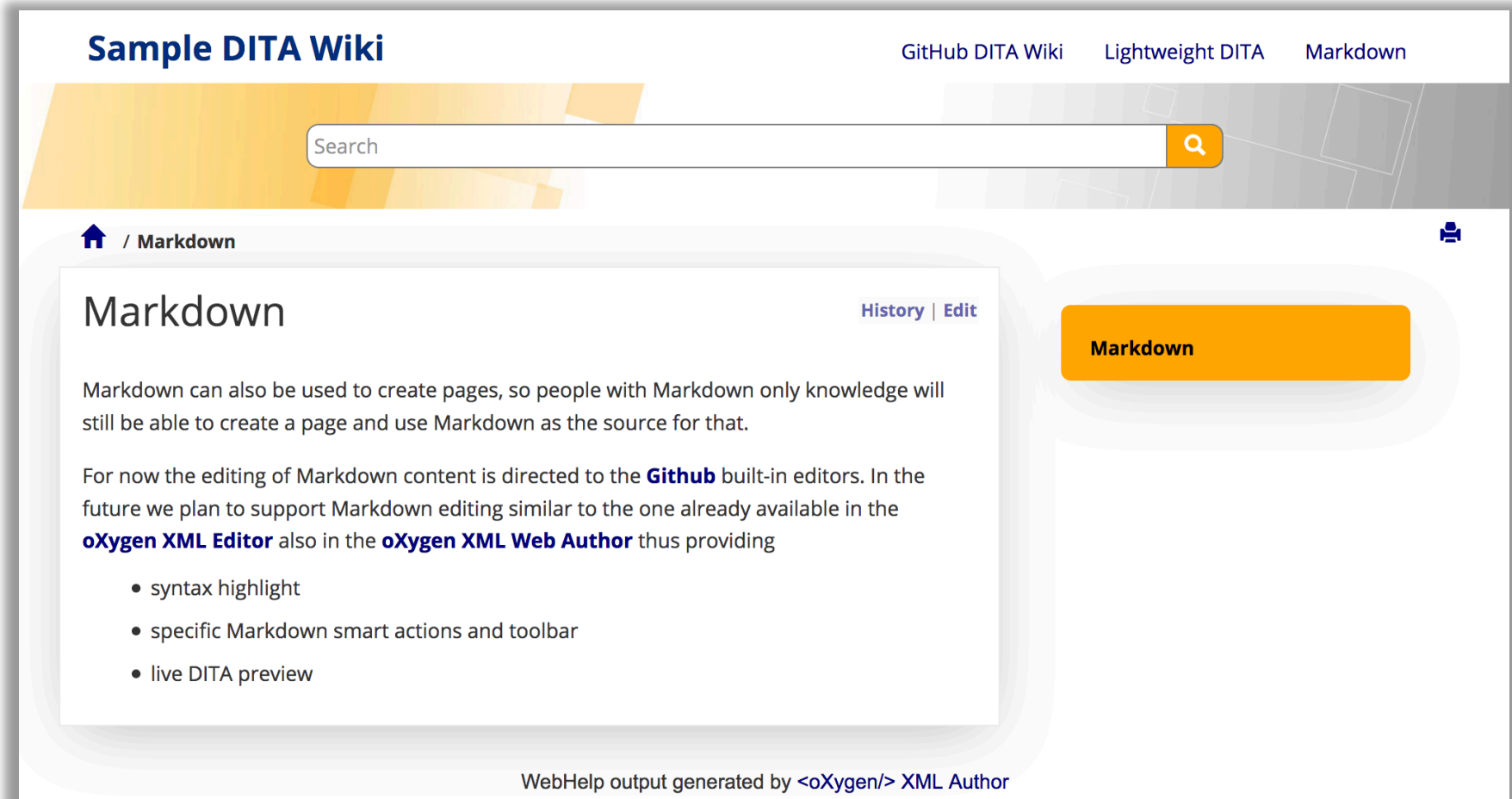
Commit Message	Author	Time	SHA-1
Committing with oXygen Web Author	georgebina	15 hours ago ✓	34569e6
Make short description shorter.	georgebina	15 hours ago ✓	2e7121b
Updated content.	georgebina	20 hours ago ✓	060e34e

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Controlled AX online editor




Markdown topic

A screenshot of a web page titled "Sample DITA Wiki". The page has a blue header with the title and navigation links: "GitHub DITA Wiki", "Lightweight DITA", and "Markdown". Below the header is a search bar with the text "Search" and a magnifying glass icon. The main content area is titled "Markdown" and includes a "History | Edit" link. The text describes how Markdown can be used to create pages and mentions that editing is directed to the "Github" built-in editors. It also lists three features: syntax highlight, specific Markdown smart actions and toolbar, and live DITA preview. A yellow button labeled "Markdown" is visible on the right side of the page. At the bottom, it says "WebHelp output generated by <oxygen/> XML Author".

Sample DITA Wiki GitHub DITA Wiki Lightweight DITA Markdown

Search

[Home](#) / **Markdown** 

Markdown [History](#) | [Edit](#)

Markdown can also be used to create pages, so people with Markdown only knowledge will still be able to create a page and use Markdown as the source for that.

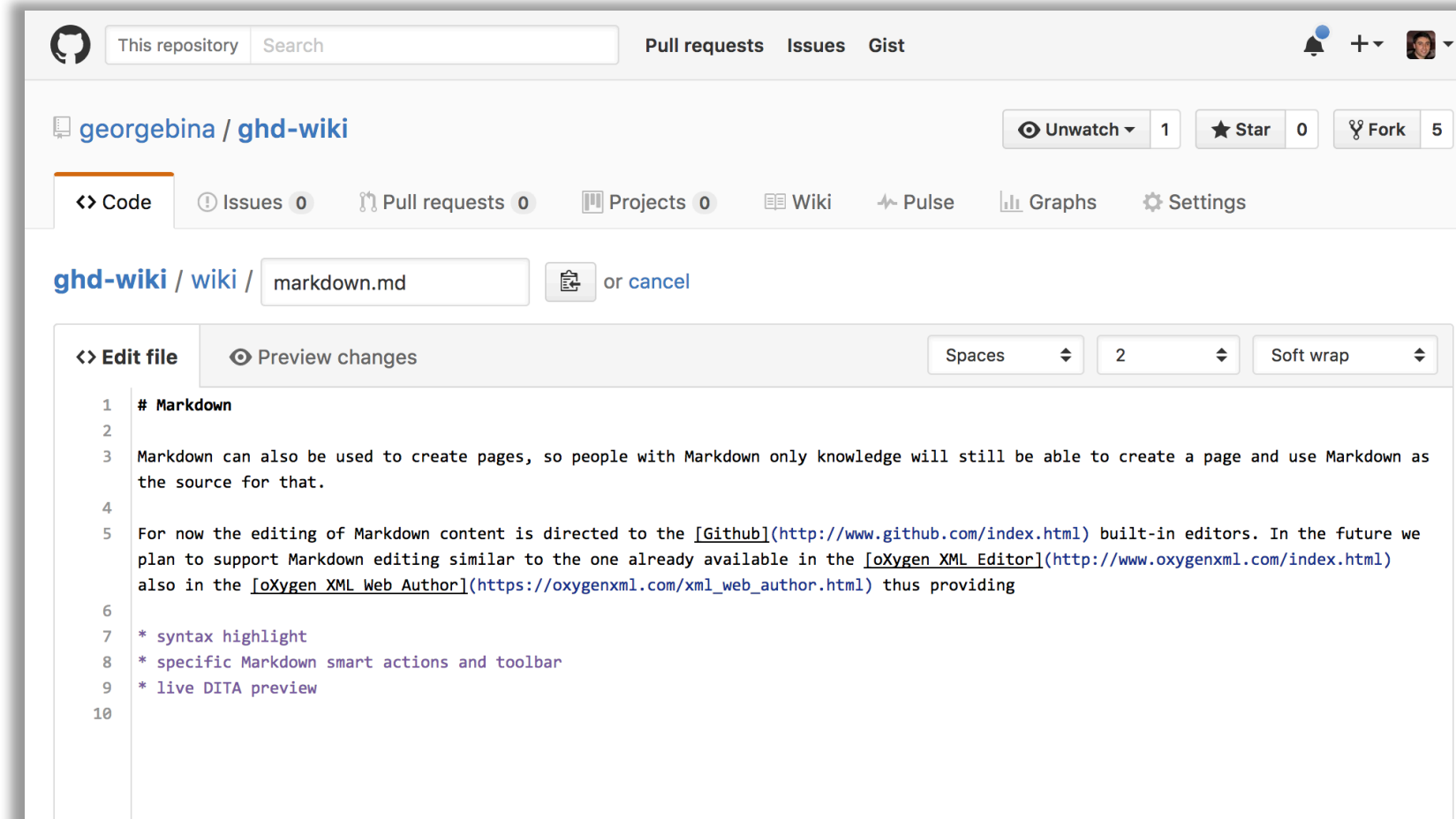
For now the editing of Markdown content is directed to the **Github** built-in editors. In the future we plan to support Markdown editing similar to the one already available in the **oxygen XML Editor** also in the **oxygen XML Web Author** thus providing

- syntax highlight
- specific Markdown smart actions and toolbar
- live DITA preview

Markdown

WebHelp output generated by **<oxygen/> XML Author**

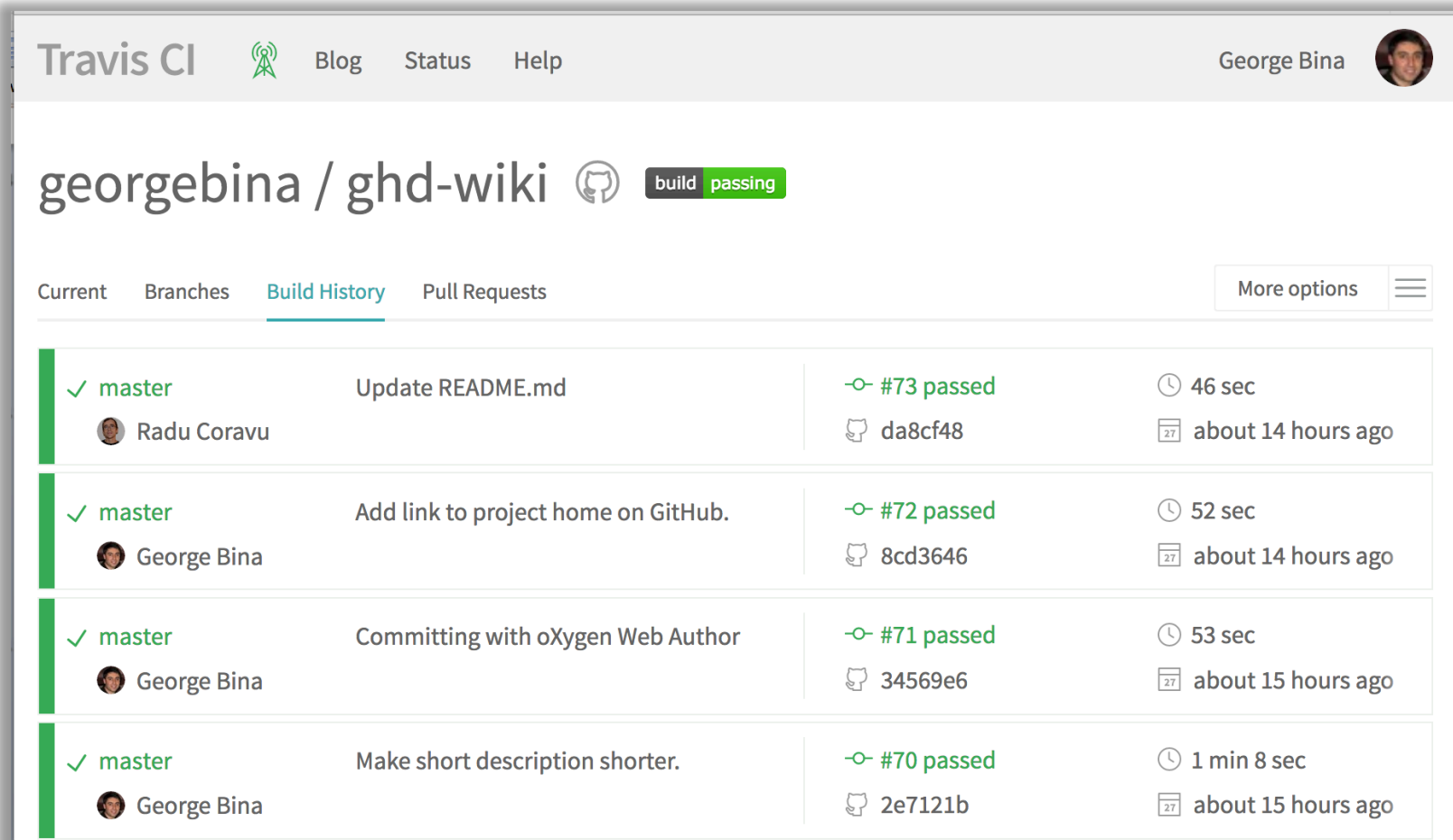
GitHub Markdown editor

A screenshot of the GitHub web interface showing a Markdown editor. The top navigation bar includes the GitHub logo, a search box, and links for "Pull requests", "Issues", and "Gist". Below this, the repository path "georgebina / ghd-wiki" is shown, along with "Unwatch" (1), "Star" (0), and "Fork" (5) buttons. A secondary navigation bar contains "Code", "Issues" (0), "Pull requests" (0), "Projects" (0), "Wiki", "Pulse", "Graphs", and "Settings". The main content area shows the file path "ghd-wiki / wiki / markdown.md" and a "cancel" button. The editor itself has tabs for "Edit file" and "Preview changes", with "Edit file" selected. On the right side of the editor, there are settings for "Spaces" (set to 2) and "Soft wrap". The code content is as follows:

```
1 # Markdown
2
3 Markdown can also be used to create pages, so people with Markdown only knowledge will still be able to create a page and use Markdown as
the source for that.
4
5 For now the editing of Markdown content is directed to the [Github](http://www.github.com/index.html) built-in editors. In the future we
plan to support Markdown editing similar to the one already available in the [oxygen XML Editor](http://www.oxygenxml.com/index.html)
also in the [oxygen XML Web Author](https://oxygenxml.com/xml_web_author.html) thus providing
6
7 * syntax highlight
8 * specific Markdown smart actions and toolbar
9 * live DITA preview
10
```


Travis project status

<https://travis-ci.org/georgebina/ghd-wiki/builds>



The screenshot shows the Travis CI interface for the repository 'georgebina / ghd-wiki'. The build status is 'passing'. The 'Build History' tab is selected, showing a list of recent builds. Each build entry includes the branch (master), commit message, author, build number, status, duration, and time ago.

Branch	Commit Message	Author	Build #	Status	Duration	Time Ago
master	Update README.md	Radu Coravu	#73	passed	46 sec	about 14 hours ago
master	Add link to project home on GitHub.	George Bina	#72	passed	52 sec	about 14 hours ago
master	Committing with oXygen Web Author	George Bina	#71	passed	53 sec	about 15 hours ago
master	Make short description shorter.	George Bina	#70	passed	1 min 8 sec	about 15 hours ago

TEI Journal

TEI CSS customization for TEI Journal articles:

<https://github.com/georgebina/jteiPlus>

Sample:

https://www.oxygenxml.com/webapp-demo-aws/app/oxygen.html?url=github%3A%2F%2Fgetfilecontent%2Fgeorgebina%2FjteiPlus%2Fmaster%2Fsamples%2FJTEI%2Fjtei_8_eide_source%2FDEMOjtei-8-eide-source.xml

Take-aways

Integration is key for web XML authoring!

Contributing to XML-based systems cannot be easier:

Click – Edit – Save – Describe what you changed

We can turn any system into a wiki like system where anyone can edit the content

Contributions can be reviewed before they are published (content curation)

Thank you

Questions?



george@oxygenxml.com



@georgebina



<http://www.oxygenxml.com>