

Technical Documentation 101

Alexandra Paskulin Wiki Mentor Africa Hackathon January 20, 2024

About me

- Based in California, USA
- Joined the Wikimedia Foundation in 2019
- Part of the Technical Documentation Team
- IRC/Phabricator: apaskulin







ΣΑ English Create account

User: APaskulin (WMF)

User page Discussion

Edit View history Tools >



Alex Paskulin

Technical Writer, Wikimedia Foundation

"Collaboration is required to match the growth of words." - Ralph Squillace



Today's session

- 1. Defining our terms
- 2. Why write documentation
- 3. Guiding principles
- 4. Types of documentation
 - a. Code comments
 - b. Developer documentation
 - c. User documentation
 - d. Project documentation
- 5. Organizing documentation pages
- 6. Structuring the pages
- 7. Writing style
- 8. Working on documentation
- 9. Resources and getting help





1. Defining our terms

Documentation is writing that explains or instructs.



Documentation works when users can:

- find the information they need,
- understand what they find, and
- act on it confidently.





2. Why write documentation

Knowledge is power.



Documentation helps us:

- multiply our efforts and
- show empathy for each other.





3. Guiding principles

For every document, consider:

- who will use it
- how will they find it
- what are they trying to do





4. Types of documentation

Code comments

labs-tools-Isa/isa/campaigns/image_updater.py

- Audience: developers
- Stored in code files
- Uses language-specific syntax

```
def fetch images(self, category, depth, continue string=None):
    Add images for a category to the campaign
    Fetches all images in the given category and if, 'depth' is
    more than 0, its subcategories. Filters out pages that do not
    match file extensions for images.
    Keyword arguments:
    category -- Id of the campaign to fetch images for. Accepts both
     with and without "Category:" prefix.
    depth - The number of subcategories down to go. 0 means no
     subcategories.
    continue string -- Used for API requests. Defaults to None.
    if not category.startswith("Category:"):
        category = "Category:" + category
    if category in self._processed_categories and not continue_string:
       # Skip the category if it has already been processed, except
       # if we are continuing on the same category.
        logging.debug('Skipping already processed category "{}".'.format(category))
        return
```



Reading code comments in a code editor

```
logging.info("Updating images for campaign {}.".format(self. campaign.id))
start time = time.time()
self. campaign.update status = PROCESSING
if not commit_changes_to_db():
    raise UndateImageExcention("Committing to database failed.")
           (method) def fetch images (
               category: Any,
# Clear i
# been re
               depth: Any,
               continue_string: Any | None = None
Image.que
self. cam ) -> None
           Add images for a category to the campaign
           Fetches all images in the given category and if, depth is more than 0, its subcategories. Filters out pages that
           do not match file extensions for images.
           Keyword arguments: category -- Id of the campaign to fetch images for. Accepts both
            with and without "Category:" prefix.
           depth -- The number of subcategories down to go. 0 means no
            subcategories.
           continue_string -- Used for API requests. Defaults to None.
    self. fetch images(category["name"], depth)
self. commit images()
logging.info(
    "{} images committed for campaign {} in {} seconds "
    "and {} commits."
```



Code comments

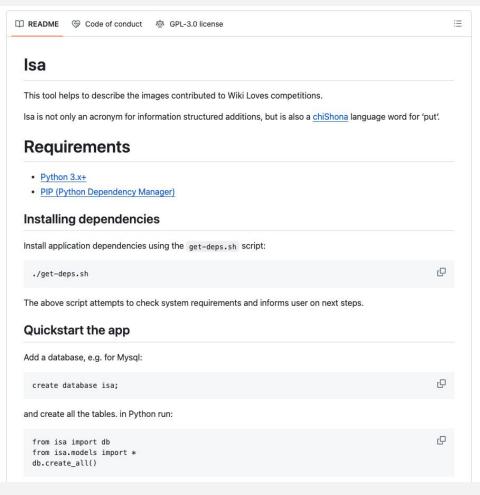
Best practices:

- Update code comments alongside code changes
- Follow existing conventions
- Explain the why



Developer documentation

- READMEs
- How to contribute
- Often uses <u>Markdown</u> syntax





User documentation

- Audience: end users
- Often serves multiple types of users
- Manuals and how-to guides
- Wiki pages



ISA Challenges

From Wikimedia Commons, the free media repository

< Commons:ISA Tool

Translate this page

Other languages: English Hausa français

ISA Tool Home

ISA Manual

2022-2023 R&D Project:

Computer-aided **Tagging**

Wiki Loves Africa MetaData Weeks

ISA is a fun tool aimed at the metadata enhancement of images contributed to the various Wiki Loves competitions on

Wikimedia Commons. It is being created as a way to quickly add structured information to a collection of pre-defined images.

Access the tool: https://isa.toolforge.org/ 2

Contents [hide]

- 1 Instructions for players
- 2 Instructions for campaign coordinators
 - 2.1 UserCases
 - 2.2 Requirements to be a campaign creator
 - 2.3 How to create a new campaign
 - 2.4 How to modify a campaign
 - 2.5 How to track the ongoings of your campaign
 - 2.6 Let people know there is a campaign running!
 - 2.7 How to measure engagement
- 3 Known problems
 - 3.1 OAuth session problem

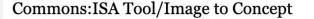
3.2 Image display is delayed





Project documentation

- Audience: contributors
- Historical
- Wiki pages



From Wikimedia Commons, the free media repository < Commons:ISA Tool

ISA Tool Home

ISA Manual

2022-2023 R&D
Project:
Computer-aided
Tagging

ISA Challenges

Wiki Loves Africa MetaData Weeks

Test and share your feedback .

The goal of the Image to Concept project was to create a fully functional crowdsourcing tool for the semi-automatic tagging of images on Wikimedia Commons and to put the tool to a test, in order to explore and document its strengths and weaknesses and to make recommendations regarding its use and further development. The test was implemented on the ISA Tool. This project is related to Computer-aided tagging, which seeks to assist community members in identifying and labeling depicts statements for Commons files.



3 Credits

- 4 Testing sign up
- 5 ISA Workshop Dec 12th

Final Project Report
 The Image to Concept project
 2.1 WP 1: Software Development
 2.2 WP 2: Large Scale Tests / Use Cases

2.3 Timeline

6 How to add new categories to the Machine Vision process

Contents [hide]

- 7 Research background
- 8 Links
- 9 Notes





5. Organizing documentation pages

Documentation is a process.



Organizing for maintainability

- Know the audience
- Define the scope
- Avoid duplication

https://www.mediawiki.org/wiki/Design_Systems_Team/Team_Processes

Code review ratings [edit]

We follow the definitions of the code review ratings (-2, -1, 0, +1, and +2) as outlined in the general Code review docs. We have a few additional norms around these ratings:

https://www.mediawiki.org/wiki/Gerrit/Code_review

≔ Gerrit/Code review

Page Discussion

Tools ~

This is a guide to reviewing and merging contributions to Wikimedia code repositories, written primarily for developers *performing* code reviews.

- For developers submitting code for review, see Getting your code reviewed.
- For an introduction to the Gerrit tool (commenting on code; comparing patch sets), see the Gerrit web tutorial.

Gerrit

- How Gerrit works
- Gerrit tutorial
- Web tutorial
- Advanced usage
- Navigation
- Code review guide
- New repositories
- Troubleshooting
- Common questions (FAQ)



Discoverability

- Navigation
- Interlinking
- Next steps



Content strategy

https://commons.wikimedia.org/wiki/Commons:ISA_Tool

Implementation

Contribute

Development [edit]

Overview

A first version of the tool was announced during Wikimania 2019.

If you find any errors in this tool or if you have any suggestions on how to improve that tool, please feel free (really do...) to create a task at Phabricator.

The tool's source code can be found here:

History

- Help translate the tool: https://translatewiki.net/wiki/Translating:ISA ☑

https://www.mediawiki.org/wiki/Local_development_quickstart

Next steps [edit source]

- Take a tour of the MediaWiki codebase Familiarize yourself with MediaWiki's core code by learning about entry points and top-level directories.
- Run unit tests MediaWiki uses the PHPUnit framework for unit and integration testing of PHP code. Read the docs to run tests and find information about writing tests.





6. Structuring the page

Introduction

- Directly follows the title
- Explains the topic and purpose of the page
- Helps the reader decide if the page is right for them

https://www.mediawiki.org/wiki/New_Developers/Introduction_ _to_the_Wikimedia_Technical_Ecosystem

This page provides an overview of Wikimedia ☑ software and infrastructure for new technical contributors. Its goal is to help developers understand the major areas where you can apply your technical skills to help support and grow the Movement.

https://commons.wikimedia.org/wiki/Commons:ISA_Tool/Manual

ISA is a fun tool aimed at the metadata enhancement of images contributed to the various Wiki Loves competitions on Wikimedia Commons. It is being created as a way to quickly add structured information to a collection of predefined images.

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https://www.mediawiki.org/wiki/Gerrit/Tutorial

Headings

- Focus on what users want to do
- Use short phrases that users will recognize
- Use sequential heading levels for accessibility
- Start with general or widely-applicable information and end with edge cases
- The table of contents should read like a summary of the page

What is Git?

Create a Wikimedia developer account

- > Set up Git
- > Set Up SSH Keys in Gerrit
- > Prepare to work with Gerrit
- > Submit a patch
- > Other common situations

Troubleshooting

> See also

References



Make the page easy to scan

- Use meaningful headings
- Alternate paragraphs with lists, tables, and code samples
- Put key words at the beginnings of paragraphs and sentences
- Make it easy for readers to skip things that aren't relevant to them

https://www.mediawiki.org/wiki/MediaWiki_API_integration_tests

Fixtures [edit source]

To manage accounts and sessions, the API testing tool provides convenient fixtures that you can reuse across tests.

fixture name	account type
alice	user
bob	user
robby	bot
mindy	admin

To open a wiki session and log in using a fixture, instantiate the account asynchronously using a fixtures function.

```
// Defines a global variable to use in the test suite
let alice;

// Opens a session and logs in as alice
before( async () => {
    alice = await action.alice();
} );
```



Imagine a page with this table of contents:

- 1. Principles
 - a. Translators should translate
 - b. Translating the wiki way
 - c. i18n must not be an afterthought
 - d. Continuous translation
- 2. Management of supported projects
 - a. Project page
 - b. Things which contribute to efficient and good quality localisation
 - c. Support requests
 - d. Export
 - e. Languages, messages, editing, and translator issues

What things do these headings do well?

What improvements could we make?



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 - c. Support requests ——
 - d. Export
 - e. Languages, messages, editing, and translator issues

What things do these headings do well?

These headings do a good job summarizing each principle

What improvements could we make?

Use a verb and simplify

Manage your project

Enable efficient, high-quality localisation

Request support

Clarify the subject Export translations

Split into more focused subsections





7. Writing style

Understandable writing is inclusive writing.



Words

- Use simple words with obvious meanings
- Define your terms and use them consistently
- Avoid acronyms and idioms
- Avoid pronouns like "it"



Sentences

- Write short, clear sentences
- One concept per sentence
- Be clear about who is doing what



Editing

- Check for ambiguity
- Ask for review
- Use tools
 - https://www.expresso-app.org/
 - readability grade
 - rare words
 - detached subjects (who is doing what)
 - entity substitutions (pronouns)
 - extra long sentences



This is a double-edged guide: to writing content with an eye to making it translatable, and to translating Wikimedia content effectively.



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This guide has two purposes: to help write content that is easier to translate and to help translate Wikimedia content effectively.



You do not harm Wikimedia technology infrastructure and follow the policies for that infrastructure.



You do not harm Wikimedia technology infrastructure and follow the policies for that infrastructure.

You do not harm Wikimedia technology infrastructure, and you follow the policies for that infrastructure.

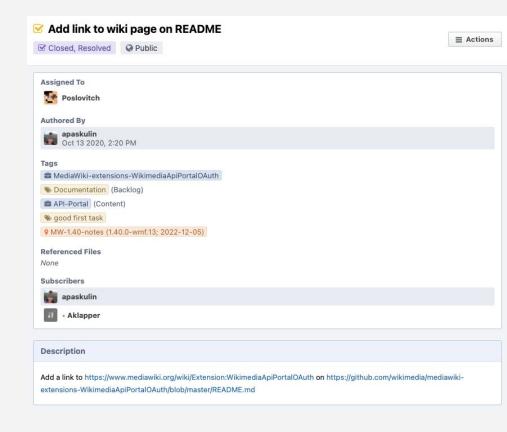




8. Working on documentation

Phabricator

- Documentation tag
- Asking for reviews
- Find documentation tasks for the Isa tool:
 https://phabricator.wikimedia.org/maniphest/query/CBz8solFje.e/#R





Wiki pages

- Add a page to your watchlist to follow the latest edits
- Read comments on the talk page to find opportunities to improve the documentation





9. Resources and getting help

Resources

- Templates and guides: https://www.mediawiki.org/wiki/Document
 ation
- Documentation tasks on Phabricator:
 https://phabricator.wikimedia.org/tag/documentation/
- Documentation style guide:
 <u>https://www.mediawiki.org/wiki/Documentation/Style_guide</u>

Get started [edit source]

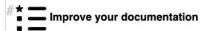


O→ Find documentation

Wikimedia has many technical projects, so technical documentation exists in multiple locations.

→ Use the Developer Portal

to find docs, or read about doc locations.



Use templates, best practices, and checklists to help you audit and improve docs.

→ Visit the Documentation Toolkit



Learn about writing

Find style guides and tips to help you write clearly and effectively.

→ Browse style guides and writing resources



Get involved in doc work

Help improve Wikimedia technical documentation, connect with the community, and learn about outreach programs.

→ Get involved

Get help [edit source]



☐ Find help for documentation

questions

Ask documentation questions on Talk:Documentation, or in any of the forums listed on the Communication page.

→ See communication channels



File documentation bugs or

requests

Learn how and where to record potential doc tasks.

→ How to file doc tasks



Getting help

- Post your questions and review requests to <u>https://www.mediawiki.org/wiki/Talk:Documentation</u>
- Email the Wikimedia Foundation Technical
 Documentation team at techdocs@wikimedia.org





Thank you!

