
Clang-Repl and Xeus-Clang-Repl documentation

Project Statement

Project Title: Clang-Repl and Xeus-Clang-Repl documentation

Detailed Description:

General

- I'll be looking at these technologies from a beginner's perspective, without prior experience with compilers. My technical background will help emulate your typical user who is interested in using or developing these technologies.

Overall Approach

Note: Following is a sample of document auditing approach, a lot of the references to the Clang documentation below are out of scope for this project.

- **Orientation** session to introduce the technologies (e.g. ROOT, Cling, etc.) that the writer should become familiar with, including **internal and external learning resources**.
- Sprint/Feature Demos to introduce **new features** to a technical audience and capture their responses (and any subsequent changes in feature design as a result).
- Conduct live **walkthroughs** by non-Developer resources (e.g., QA). This will help the writer:
 - Read between the instruction lines, grasp **missing context**
 - Capture any challenges faced by the non-dev user in **troubleshooting** documentation
- **Video Content:** Byte-sized (less than 5 minutes) screen-grabs of activities (like installation, configuration, etc.) can be recorded, edited, hosted on YouTube and referenced in documentation (to [replace the long, outdated demos](#)).
- **Tools** like ReadTheDocs may be evaluated for improving documentation.
- **Knowledge gaps** and outdated feature descriptions may be identified after training completion.

Specific Document Audit Examples

- **Main page** could use some **organization**. For example, grouping similar topics (e.g., sanitizers), adding brief intros and displaying them in card format ([like modern websites](#)).
- Several documents **presume that the reader has prior knowledge** of technologies (e.g., [Clad](#)) and other **technical jargon**. This reduces readability, making the content seem denser than it is.
- Relevant **terminology** may need to be introduced at the beginning of an article.
- Inter-linking articles or **context-sensitive help** (hover to show tooltip) may also help.
- **Assumptions/** Pre-requisites should be highlighted in the beginning ([like here](#): It assumes you already know how to compile the code in question...).
- **Topic names** ([example](#)) don't always explain what the document teaches.

- **Topic not defined** in introduction (e.g., what is [Language Extension](#) needs to be established for a new user, before jumping into feature checks).
- Text in the **Table of Contents** doesn't always match the **Page Headings** (the intent may have been to add more context, but these links look like external links, adding to the confusion).
- Many articles jump right into the action items. **Intros** may be improved by providing context on what an article will help the user learn. **Outros** may help summarize the learnings.
- Need to identify missed opportunities to add context or introduce [Terminology](#).
- Need to identify **incomplete sections** ([example](#)).
- Need to identify **tasks mixed with documentation** content (e.g., 4 instances of [TODO](#)).