



Google Season of Docs

Compiler Research Organization



Presented by: QuillPusher (Sakib).

Objectives

- Contribute to Compiler Research Org, ROOT and LLVM Documentation
- Identify Gaps in existing Docs
- Wider reach and discoverability
- Organize Orientation Sessions & Calendar
- Domain-specific Research (AD, InterOp, etc.)
- Tools of the Trade (Git, Markdown, Sphinx, Mermaid, Graphviz, Jekyll, etc.)



Working on Legibility Issues

- The Curse of Knowledge...
- Never presume that the reader has prior knowledge
- Context-Sensitive Terminology Introduction
- Highlight Assumptions/ Prerequisites
- Balanced Target Audience: Both Experts (maintainers) and Novices (adopters)



Major Topics Covered

01

CppInterOp
(Compiler
Research Org)

02

RooFit
(ROOT)

03

Clang-Repl
(LLVM)

04

Floating
Point Error
Estimation
(Clad)

05

cppyy
(compiler
research)

06

Numba
(cppyy)

07

Compiler
Research
Website



Notable PRs

- **CppInterOp ReadMe:** <https://github.com/compiler-research/CppInterOp/pull/91>
- **CppInterOp Doxygen:** <https://github.com/compiler-research/CppInterOp/pull/85>
- **Success Stories:** <https://github.com/compiler-research/compiler-research.github.io/pull/110>
- **Execution Results Handling:** <https://github.com/llvm/llvm-project/pull/65650>
- **Roofit:** <https://github.com/root-project/root/pull/13929>
and <https://github.com/root-project/root/pull/14018>
- **Floating Point Error Estimation:** <https://github.com/vgvassilev/clad/pull/648>
- **Numba:** <https://github.com/wlav/cppy/pull/199>
- **CPPYY:** <https://github.com/compiler-research/CppInterOp/pull/160>
- **CR Website Setup:** <https://github.com/compiler-research/compiler-research.github.io/pull/129>



A piece of torn yellow paper is centered on a white grid background. A black paperclip is attached to the top left corner. Three black triangular marks are drawn on the top right edge. Three more black triangular marks are drawn on the bottom left edge. A black wavy line is drawn along the bottom right edge. The text "Thank you very much!" is written in a bold, black, rounded font with a white outline, centered on the paper.

**Thank you
very much!**