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
- **CpplInterOp ReadMe**: [https://github.com/compiler-research/CpplInterOp/pull/91](https://github.com/compiler-research/CpplInterOp/pull/91)

- **CpplInterOp Doxygen**: [https://github.com/compiler-research/CpplInterOp/pull/85](https://github.com/compiler-research/CpplInterOp/pull/85)

- **Success Stories**: [https://github.com/compiler-research/compiler-research.github.io/pull/110](https://github.com/compiler-research/compiler-research.github.io/pull/110)

- **Execution Results Handling**: [https://github.com/llvm/llvm-project/pull/65650](https://github.com/llvm/llvm-project/pull/65650)

- **Roofit**: [https://github.com/root-project/root/pull/13929](https://github.com/root-project/root/pull/13929)
  and [https://github.com/root-project/root/pull/14018](https://github.com/root-project/root/pull/14018)

- **Floating Point Error Estimation**: [https://github.com/vgysassilev/clad/pull/648](https://github.com/vgysassilev/clad/pull/648)

- **Numba**: [https://github.com/wlavl/cpppy/pull/199](https://github.com/wlavl/cpppy/pull/199)

- **CPPYY**: [https://github.com/compiler-research/CpplInterOp/pull/160](https://github.com/compiler-research/CpplInterOp/pull/160)

- **CR Website Setup**: [https://github.com/compiler-research/compiler-research.github.io/pull/129](https://github.com/compiler-research/compiler-research.github.io/pull/129)
Thank you very much!