Language Interop WG Academy Software Foundation (ASWF)

Wabi Foundation. 6.12.24.



Languages **ASWF Language Interop WG**

- as sub working groups:
 - C
 - Python
 - Rust
 - Swift
- company are supportive of interoperability between a future language.
- through their common, standard existing C++ implementations.

Dedicated to providing C++ interoperability, and between various programming languages, each

Other languages to be identified by the TAC/TSC, if an existing ASWF project and/or member

Empowering all software development by providing seamless interoperability of **ASWF** APIs



Goals **ASWF Language Interop WG**

- each respective language's best-practices and standards.
- programming languages.
- across each of these programming languages.
- Supporting cross-platform support across all major operating systems.

• Collaboration with the **ASWF** in the mission to allow all of its existing projects and libraries to interop with these other programming languages, following

 Through the availability of plugins and other tooling to aid in bringing existing libraries to each of the ASWF Language Interop WG sub working groups'

Creating *familiar* APIs to their existing C++ implementations, and consistent



Non-Goals ASWF Language Interop WG

- Existing C++ libraries should not be modified, or modified very little.
- Rewriting existing C++ code into these other languages.

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Responsibilities **ASWF Language Interop WG**

- ASWF Language Interop WG
 - decisions, communication, etc.
 - depending on how we decide to set the bar to pass for a language).
- Sub Language WGs
 - Build and maintain bindings.
 - Build and maintain documentation (for example, best practices for C++ to Python).
 - Communicate with projects/support them.

• Organize the sub projects/WGs and make sure we're all on the same page with general design

• Decide if a language is going to be included as an interop target (project will likely start with C, Python, and Rust, with Swift being the first language that will likely be accepted as well

Deliverables **ASWF Language Interop WG**

- OpenEXR, OllO, Ptex, and USD, for Rust.
- OpenTimelineIO for Swift.
- USD for Swift.
- Subsequent products to be identified by TAC/TSC.



