C++ Club Meeting Notes

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Pre-San Diego Papers (1/5)

- ▶ Bartek's Coding Blog: Five Awesome C++ Papers for San Diego
 - constexpr std::string and constexpr std::vector
 - Extended structured bindings
 - Pattern matching
 - ► Text formatting
 - A concurrent associative data structure with an unsynchronised view, slides

Pre-San Diego Papers (2/5)

- ▶ JeanHeyd Meneide: Simple, Easy Papers
 - ► Nested inline namespaces
 - nodiscard should have a reason
 - void main Hmmm... don't think so
 - Byteswapping for fun&&nuf
 - offsetof for the Modern Era
 - namespace std { namespace fs = filesystem; } Meh
 - Literal Suffixes for size_t and ptrdiff_t
- Reddit

Pre-San Diego Papers (3/5)

- ▶ JeanHeyd Meneide: Optional Choices to Make
 - ► Monadic operations for std::optional
 - ► A simple, practical optional reference for C++
 - "The good news is that this paper lets the C++ Committee continue to wage the holy war about how comparison and assignment for such a type should work while providing a way forward for not only std::optional<T&>, but variant<T&, ...> and std::expected<T&>."
 - ▶ Jonathan Boccara: Why Optional References Didn't Make It In C++17
 - ▶ Reddit
- Reddit

Pre-San Diego Papers (4/5)

- ▶ JeanHeyd Meneide: Paper Review II
 - ► Feature Presentation
 - ► Forward from initializer_list
 - ► A view of 0 or 1 elements: view::maybe
 - Proposing unless
 - ► Immediate functions
- Reddit

The simplest papers are often the worst for bikeshedding. – Niall Douglas

Pre-San Diego Papers (5/5)

- ► Implicit constexpr
- ▶ Package Specification, Notes on C++ Package Management, Package Ecosystem Plan
- Canonical Project Structure
 - "If you have to disregard every rule and recommendation in these guidelines but one, for example, because you are working on an existing library, then insist on this: public header inclusions must use the library name as a directory prefix."
- find_backward
- ► flat_map and flat_set
- char8_t: A type for UTF-8 characters and strings

Twitter

