

C++ Club UK Meeting 126

Gleb Dolgich

2021-04-01

mailing2021-03

- mailing2021-03
 - Reddit

Select papers

- P1875R2. Transactional Memory Lite Support in C++
- P2041R1. template = delete
- P2093R5. Formatted output
- P2332R0. Establishing std::hive as replacement name for the proposed std::colony container

Balanced functions in C++

- John Freeman
 - Reddit

C++ Performance Trap #1: Constant-size std::vector

- Scott Wolchok
 - [Reddit](#)
 - [Software optimization resources, by Agner](#)

C++ Performance Trap #2: Unnecessary std::function

- Scott Wolchok
 - Reddit

Inlining and Compiler Optimizations

- Scott Wolchok
 - Reddit

Library: Cli

A cross-platform header only C++14 library for interactive command line interfaces (Cisco style).

- [GitHub](#)

Introduction to Lua in C++ with Sol2

- Hristo Stamenov

Book erratum: Professional C++ by Marc Gregoire

- [Reddit](#)

*Statements of the form return object; trigger return value optimization (RVO) if object is a local variable, **a parameter to the function**, or a temporary value. Furthermore, if object is a local variable, named return value optimization (NRVO) can kick in.*

The **bold** part is wrong.

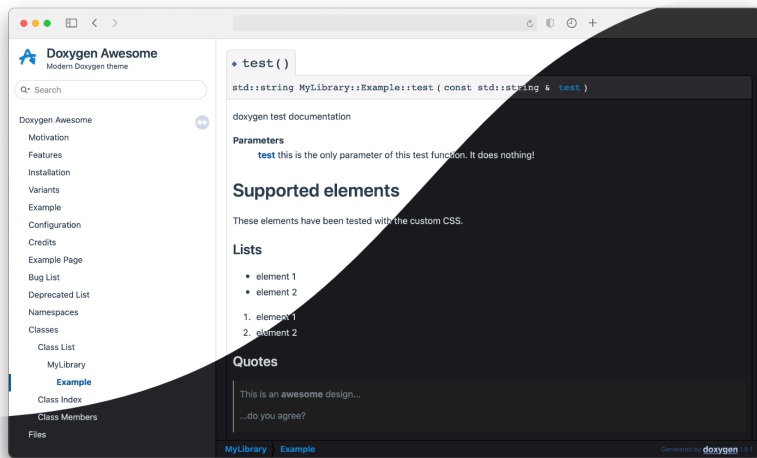
- [cpreference: Copy elision](#)

Free Windows 10 development virtual machines for HyperV, Parallels, VirtualBox, and VMWare

- Scott Hanselman
- Virtual machine downloads at Microsoft
- Free developer tools for Windows 10

Tool: Doxygen Awesome

- Doxygen Awesome Theme
 - Reddit



Tool: hdoc is now open source

- Announcement
 - [Reddit](#)
 - [GitHub](#)

C++ Blog Roll

- Blog posts tagged 'cpp'
- Reddit post with additional blog links

Library: ConcurrentDeque and Thiefpool (C++20)

- ConcurrentDeque - A lock-free concurrent queue
 - [GitHub](#)
 - [Reddit](#)
 - [Dynamic Circular Work-Stealing Deque](#), by David Chase and Yossi Lev
- Thiefpool - A blazing-fast, lightweight, work-stealing thread-pool
 - [GitHub](#)
 - [Reddit](#)

Library: Alia - A Library for Interactive Applications

- Home
 - Reddit

constexpr Dynamic Memory Allocation, C++20

- B. Filipek

Algorithm Selection

- Conor Hoekstra

Writing Interfaces: Stay true in booleans

- Radek Vít
 - Reddit

Metalang99: Full-blown preprocessor metaprogramming for pure C

For the horror value...

- [Docs](#)
- [GitHub](#)

Modern C++ “result” type based on Swift / Rust

- [GitHub](#)
- [Reddit announcement](#)

See also

- [absl::StatusOr](#)
- [Boost.Outcome](#)
- [P0323](#). [std::expected](#) possibly for C++23

How C++ Resolves a Function Call

- Preshing
 - Reddit

ADL

- Arthur O'Dwyer
- Abseil Tip #49

Don't blindly prefer `emplace_back` to `push_back`

- Arthur O'Dwyer
 - Reddit
 - The `emplace-new` antipattern

C++ Antipatterns

- Kayari



I Am Devloper @iamdevloper

Software is never finished, merely abandoned.

22h • 25/07/2020 • 23:59 ●