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.*
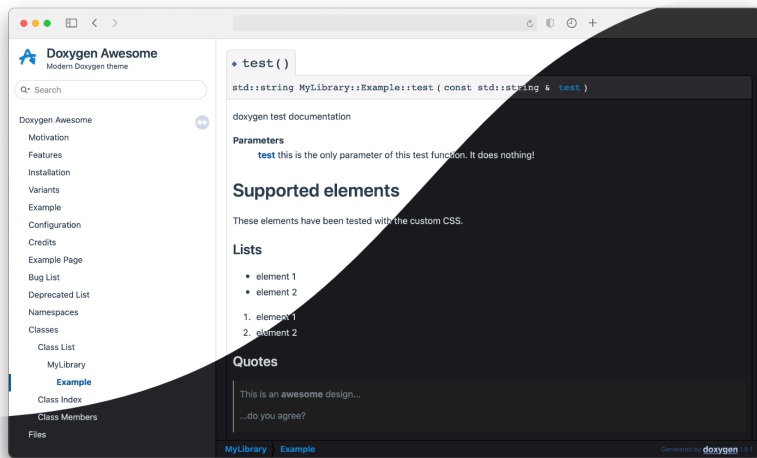
The **bold** part is wrong.

- cppreference: 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

- GitHub
  - Reddit
  - Dynamic Circular Work-Stealing Deque, by David Chase and Yossi Lev

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

Twitter

I Am Devloper @iamdevloper
Software is never finished, merely abandoned.
22h · 25/07/2020 · 23:59