C++ Club UK Meeting 112

Gleb Dolgich

2020-08-27

Bjarne Stroustrup's Reddit account suspended (edit: now restored)

- Reddit

- Mailing
  - Reddit

Select papers

- N4862 Business Plan and Convener's Report
- P0228R6 `any_invocable`
- P0881R6 A Proposal to add stacktrace library
- P2210R0 Superior String Splitting

- Keith Schwarz

Rust and C++ interoperability

- Chromium

Eggs.Invoke

Eggs.Invoke is a C++11/14/17/20 single-header implementation of `INVOKE` and its related facilities.

- Home
- GitHub (Boost)

Announcing Meeting C++ online

- Jens Weller
  - Reddit

Visual Studio 2019 V16.7.2 is available

- Change log
- Release notes
- Reddit

NVIDIA HPC SDK

- **Announcement**

  The NVIDIA HPC SDK C, C++, and Fortran compilers support GPU acceleration of HPC modeling and simulation applications with standard C++ and Fortran, OpenACC® directives, and CUDA®. <...> With support for NVIDIA GPUs and Arm, OpenPOWER, or x86-64 CPUs running Linux, the HPC SDK provides the tools you need to build NVIDIA GPU-accelerated HPC applications.

- **Accelerating Standard C++ with GPUs Using** `stdpar`

- Microsoft C++ Team Blog
  - Reddit
  - Previously: AddressSanitizer (ASan) for Windows with MSVC

Improving code generation time with C++ Build Insights

- Microsoft C++ Team Blog
  - Reddit

- Microsoft C++ Team Blog
  - Reddit

CLion 2020.2

- Announcement
  - Reddit

Envy

envy is a small header-only library to deserialize environment variables into type-safe structs.

- GitHub (MIT)

No more plain old data

- Marius Bancila
  - Reddit

- Mastering C++: Books | Courses | Tools | Tutorials | Blogs | Communities, by Vishal Chovatiya

- JeanHeyd 'ThePhD' Meneide
  - Reddit

- Lesley Lai
  - Reddit

Awesome hpp

- GitHub
  - Reddit
  - Previously: Awesome C++

cpp-httplib

- Reddit
- GitHub (MIT, C++11, header-only)

- Anupam Mazumdar via Medium
    - Reddit
    - See also: C++11: The Rule of the Big Five
    - See also: How I Declare My class And Why, by Howard Hinnant

- Article
  - Reddit

- JeanHeyd "ThePhD" Meneide
  - Reddit

Standard library development made easy with C++20

- Corentin Jabot
  - Reddit

Wide screen for C++

C++ programmers now finally able to read linker errors in one line