C++ Club UK Meeting 110

Gleb Dolgich

2020-07-02

- mailing2020-06
  - Reddit

Select papers

- P2184R0 HOPL: Thriving in a Crowded and Changing World: C++ 2006–2020
- P2164R1 `views::enumerate`
- P2093R0 Formatted output

C++20	Proposed
`std::cout << std::format("Hello, {}!", name);`	`std::print("Hello, {}!", name);`

Best online data structures /algorithms c++ courses?

- Reddit

Links
- Coursera: Algorithms, Part I (Prinston University)
- Book: Competitive Programmer's Handbook, by Antti Laaksonen, 2018

In a hypothetical situation, backwards compatibility is no longer an issue in C++. What would you change about the core language or the standard library?

- Reddit
  - Rust gets mentioned!

- Stuart Wheaton
  - Reddit

*C++**11** posted on June 14, **2020**?*

Illustrative Boost 1.73 epoch report

- Report
  - Reddit

- Article
  - Reddit
- polymorphic_value (GitHub)
- Better Code: Runtime Polymorphism - Sean Parent

- Part 1
- Part 2
- Part 3
- Part 4

- Post by Andreas Herrmann

On the Tension Between Object-Oriented and Generic Programming in C++, and What Type Erasure Can Do About It

- Article by Thomas Becker

- Filip Dutescu (GitHub)
  - Reddit

A template for modern C++ projects using CMake, clang-format and unit testing

- Bartek Filipek
  - Reddit

- GitHub (C++20, BSD-3-Clause)
  - Reddit

- B. Filipek
  - Reddit

Modern C++ Parallel Task Programming

- Home
- GitHub
- Taskflow 2.5 announcement on Reddit
- Taskflow - C++ Parallel Tasking System, by Manoj Rao

- GitHub
  - Reddit (Header-only, C++17, Boost Licence)

- Reddit
- C++ libraries for restful micro services development

- German Diago Gomez
  - Emacs
  - Meson
  - C++20
- Tom's Data Onion

- Notes

The goal of these notes is to introduce the reader to the following.

1. Parallel computing in imperative programming languages and C++ in particular, and
2. Real-world performance and efficiency concerns in writing parallel software and techniques for dealing with them.

- Barry Revzin
  - Reddit

Michael Park @mcypark
@BarryRevzin

Haskell: ƛ
Rust: lambda
C++:   laaaaaaaaaaambbdaaa

thread
10h • 18/06/2020 • 15:11

- Douglas Schmidt, YouTube playlist
  - Reddit

- Reddit

Tools
- Build time profiler for Clang
- Clang Build Analyzer

- Yair Chuchem

- Microsoft
  - Reddit

> *Rust is a great language. Like C++, it trusts the programmer, and like Java, it doesn't trust the programmer.* #

- CXX — safe FFI between Rust and C++

Colin Yates @yatesco:

> *The biggest lie in Software Engineering is that it is about computers and not people.*

how showers are
supposed to work

```cpp
int temperature;
```

how showers work

```cpp
bool temperature;
```