

C++ Club UK Meeting 121

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Perhaps it's time for a more opinionated dialect of C++

- [Reddit](#)
- Should I litter my code with (the correct) attributes for every function, or just leave it pretty?

Latest C++: theory vs. reality

- [Reddit](#)
 - [Godot game engine C++ standard thread on GitHub](#)

C++ vs Rust performance

- [Reddit /r/cpp](#)
 - [Reddit /r/rust](#)

If you were allowed to make breaking changes to the C++ specification, what features would you modify/replace/remove to make the language better?

- Reddit

A Year of Conference Talks from the Microsoft C++ Team

- Sy Brand
 - Reddit

C/C++ Search Extension

- Website
 - Reddit

Modern C++: Snippets and Examples

- Alan Freitas
 - Reddit

Modern C++ Tip of the Week

- Quantlab

INI-config

A single-header C++20 library that converts INI-formatted string literals to a key-value pair list at compile-time.

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

```
1 #include "ini_config.hpp"
2
3 constexpr auto config = R"(
4 [Cat]
5 color = gray
6 lives = 9
7 )"_ini;
8
9 for (auto kvp : config) {}
10 for (auto kvp : config.section("Cat")) {}
11 config.get("Cat", "lives"); // => "9"
12 config.get<int>("Cat", "lives"); // => 9
13 config.get("Dog", "lives"); // => ""
```

mocxx: a versatile C++ function mocking framework based on Frida, by Guardsquare

No macros! Doesn't support mocking virtual functions yet.

- [Reddit](#)
 - [GitHub](#) (C++17, GPL-3.0)
 - [Frida - Dynamic instrumentation toolkit for developers, reverse-engineers, and security researchers](#)
 - [Explanatory blog post at Guardsquare](#)

Compile 1 Million Lines Of C++ In ~2 Minutes With A 16 Core Ryzen 9 5950x

- [Embarcadero](#)
 - [Reddit](#)

Dev-C++

A fast, portable, simple, and free C/C++ IDE for Windows, built in Delphi

- [GitHub](#)

Using `std::list::splice` to implement a LRU cache

- [Article on nextptr](#)
- `std::list::splice`

What should the state of a moved-from object be?

- Raymond Chen
 - Reddit

Reducing Memory Consumption in Visual Assist

- Blog post
 - Reddit

dont_deduce

- artificial::mind
 - Reddit

C++11

```
1 template <class T> struct foo_t { using type = T; };
2 template <class T> using foo = typename foo_t<T>::type;
```

C++20

```
1 template <typename T>
2 auto operator+(
3     vec3<T> const& a,
4     std::convertible_to<T> auto const& b
5 ) -> vec3<T>;
```


Writing a custom iterator in modern C++ (C++17)

- Article
 - Reddit

C++ for Swift developers

- Sidharth Juyal
 - [Reddit](#)

Wrapping C++ for use in Swift

- [Reddit](#)

Tracy Profiler

A real time, nanosecond resolution, remote telemetry, hybrid frame and sampling profiler for games and other applications.

Tracy supports profiling CPU (C, C++11, Lua), GPU (OpenGL, Vulkan, OpenCL, Direct3D 12), memory, locks, context switches, per-frame screenshots and more.

- [GitHub](#)

Functional programmers

