

C++ Club UK Meeting 114

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2020-10-01

September 2020 mailing

- September 2020 mailing

Select papers

- P2216R0 `std::format` improvements
- P2218R0 More flexible `optional::value_or()`
- P2219R0 Executors Issues Needing Resolution

CppCon2020 presentation materials

- [GitHub](#)

The Little Things: Speeding up C++ compilation

- Article by Martin Hořeňovský
 - [Reddit](#)
 - [HackerNews](#)

Techniques

- Include less
- Forward declarations (*hmmm – GD*)
- Explicit outlining
- Hidden friends
- Link less
- Extern template
- **Modules** (*not mentioned... – GD*)

Tools

- [Include What You Use \(IWYU\)](#)
- [Ninja](#)
- [LLD](#)

A Buffers Library for C++20

- Colby Pike

Why I like C++ attributes

- Marius Bancila

Crypto3

- Home page
- Boost mailing list announcement
- GitHub
- Reddit

C++ STL-Like Algorithm Libraries

- Conor Hoekstra

Libcu++: the NVIDIA Standard Library

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

Recursive lambdas in C++

- Philip Trettner

id Tech – Game engines written in C++

- Engines and games
 - [Reddit](#)

Fabien Sanglard's game engine code reviews

- [Quake](#)
- [Quake 2](#)
- [Quake 3](#)
- [Doom 3](#)

See also

- [Doom Eternal study](#)

Named Parameters in C++20

- Peter Dimov
 - Reddit

C++ in Visual Studio Code reaches version 1.0

- Julia Reid
 - Reddit

AAA: Auxiliary Arithmetic Algorithms

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

Book: C++ Best Practices by Jason Turner

- **LeanPub** (min. \$9.99)

C++ Talk Index

- Website
 - Reddit

vcpkg: Accelerate your team development environment with binary caching and manifests

- Microsoft
 - Reddit

Related

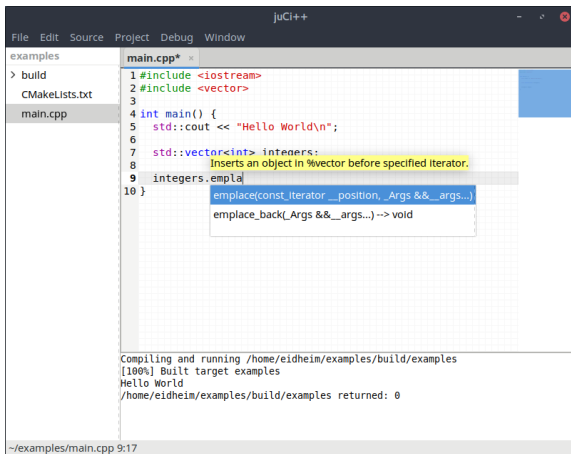
Why is it such an abysmal pain to use libraries in C++ compared to pretty much anything else?

The terrible **size_t**

- Reddit

juCi++: a lightweight, cross-platform IDE

- GitLab
- Installation guide



The screenshot displays the juCi++ IDE interface. The title bar reads "juCi++". The menu bar includes "File", "Edit", "Source", "Project", "Debug", and "Window". On the left, a project explorer shows a tree structure with "examples" as the root, containing "build", "CMakeLists.txt", and "main.cpp". The "main.cpp" file is open in the editor, showing the following code:

```
1 #include <iostream>
2 #include <vector>
3
4 int main() {
5     std::cout << "Hello World\n";
6
7     std::vector<int> integers;
8     // Inserts an object in %vector before specified iterator.
9     integers.emplace
10 }
```

A tooltip is visible over the `emplace` call, showing two overloads: `emplace(const_iterator __position, _Args &&__args...)` and `emplace_back(_Args &&__args...) -> void`. Below the editor, a terminal window shows the output of a compilation and execution command:

```
Compiling and running /home/eidheim/examples/build/examples
[100%] Built target examples
Hello World
/home/eidheim/examples/build/examples returned: 0
```

The status bar at the bottom indicates the current file and line: `~/examples/main.cpp 9:17`.

Figure 1: Screenshot