# C++ Club UK Meeting 116

Gleb Dolgich

2020-10-29

# Named Parameters in C++20

Peter Dimov

- Reddit

# C++ in Visual Studio Code reaches version 1.0
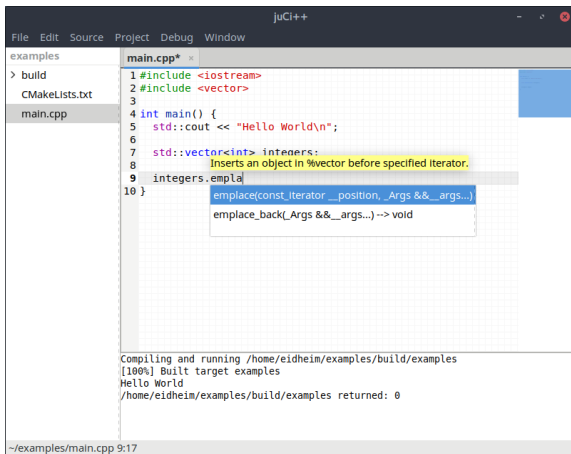
Julia Reid

- Reddit

# C++ Talk Index

Website

- Reddit

# The terrible **size_t**

Reddit

# juCi++: a lightweight, cross-platform IDE

- GitLab
- Installation guide



Figure 1: Screenshot

# Library: cpp-lazy

GitHub

Cpp-lazy is a fast and easy lazy evaluation library for C++14/17/20.

Lazy evaluation is an evaluation strategy which holds the evaluation of an expression until its value is needed. In this library, all the iterators are lazy evaluated.

This library is not a replacement for `ranges::v3` but rather a (smaller) alternative.

# Library: Crypto3

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

# Library: AAA - Auxiliary Arithmetic Algorithms

- GitHub (MIT)
- Docs

# C#-like events in C++

Reddit

(Unrelated: Variable name prefixes)

- Code on Pastebin
- Signal-Slot library benchmarks
- Boost.Signals2

# Uses of immediately invoked function expressions (IIFE) in C++

- Erik Rigtorp
- Jonathan Müller

# Overloading by Return Type in C++

Philip Trettner

- Reddit

```cpp
struct to_string_t
{
  std::string_view s;

  // int  from_string(std::string_view s);
  operator int() const;
  // bool from_string(std::string_view s);
  operator bool() const;
};

int i = to_string_t{"7"};
bool b = to_string_t{"true"};
```

# The Defold game engine code style

Article

Code style

- C-like C++
- No classes (*huh? – GD*)
- No exceptions
- No STL
  - Custom containers
- Data ownership tracking
- C++98

(*It's the end of 2020, by the way. – GD*)

# A Buffers Library for C++20

Colby Pike

# 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?