C++ Club UK Meeting 117

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WG21 Index

https://wg21.link/index.html

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

```
struct to_string_t {
 2
     std::string_view s;
 3
     // int from string(std::string view s);
 5
     operator int() const;
     // bool from_string(std::string_view s);
     operator bool() const;
8
   };
 9
10 int i = to_string_t{"7"};
11 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?

Raymond Chen on structured bindings

- Structured binding may be the new hotness, but we'll always have std::tie
 - Reddit
- How to add C++ structured binding support to your own types
 - 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

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

Calendar and Time-Zones in C++20: Time of Day

Rainer Grimm

FTL - A functional template library for containers processing in C++

- GitHub
- Reddit

FTL is a C++17-based library that provides a more convenient API for collections processing. The API is heavily inspired by the Rust programming language.