

C++ Club Meeting Notes

Gleb Dolgich

2019-11-07

Article

Reddit

P1863R0 by Titus Winters

Reddit

C++ Epochs won't help as they only touch syntax, not ABI.

John M. Dlugosz

Another cool MSVC flag: `/d1reportTime`

Aras Pranckevičius

Introducing C++ Build Insights in Visual Studio

- [VC++ Team Blog](#)
- [Reddit](#)

Why $\tau t(u)$ not equivalent to $\tau t = u$?

Reddit

STL:

C++ initialization is a mess.

Stack Overflow: Is there a difference between copy initialization and direct initialization?

Corentin Jabot

P0443R11 The Unified Executors Proposal

- Intro
- Code
- Reddit 1
- Reddit 2

Swish

- [Code](#)
- [Reddit](#)

CPR

- [Code](#)
- [Docs](#)

Code

A C++20-like span for C++98, C++11 and later in a single-file header-only library.

- **Implementation** (BSD 3-Clause)
 - **Intro**
 - **Reddit**
- **Kokkos**
- **Multi-dimensional strided array views in Magnum**
- **P0009R9 mdspan: A Non-Owning Multidimensional Array Reference**
- **CppCast with Bryce Adelstein Lelbach**

Barry Revzin

Reddit

GCC & Clang: `-Wswitch-enum`

Reddit

- PyTorch
- TensorFlow for C++
- Shogun

The sad history of Unicode printf-style format specifiers in Visual C++

Raymond Chen

Reddit

Introducing Magnum Python Bindings

Blog

PyBind11

Steve Downey

Template meta-programming: Some testing and debugging tricks

Ivan Cukic

Article

GitHub

Reddit

Eliminating the Static Overhead of Ranges

Colby Pike, Reddit

Without ranges

```
1 vector<string> child_names;
2 for (auto& person : all_people) {
3     if (person.age < 14) {
4         child_names.push_back(person.name);
5     }
6 }
```

With ranges

```
1 auto children_names =
2     all_people
3     | filter([](const auto& person) { return person.age < 14; })
4     | transform([](const auto& person) { return person.name; })
5     | to_vector;
```

- [Wikipedia](#)
- [We don't need no stinking expression templates](#) by Andy G
 - [Reddit](#)

Change standard containers' `size()` method to return signed integer?

Reddit

A Python script that simplifies C++ compiler errors. Useful when using heavily-templated libraries.

[GitHub](#)

Is requiring lambdas to explicitly list what they capture a good coding standard?

Reddit

- GCC 9
- GCC 8.2 by STL

James McNellis's typename trick



James McNellis @JamesMcNellis

There's a neat trick that I use to remember when to use the typename keyword:

If the compiler tells me that there's a "missing 'typename'", I add the typename keyword where the compiler tells me to put it.



Standard C++ @isocpp

Quick Q: Where and why do I have to put the "template" and "typename" keywords? bit.ly/2YxWDr4 #cpp

4h • 07/08/2019 • 19:18



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The Programmers' Credo:

*We do these things not because they are easy, but
because we thought they were going to be easy.*