C++ Club Meeting Notes

Gleb Dolgich 2019-12-05

How can you be so certain?

Bjarne Stroustrup

We are defining a language for decades of use. A bit of humility is necessary.

Reddit

How can you be so certain?



Corentin @Cor3ntin

Controversial opinion: P1962 and all the discussions surrounding it are a tad pointless and for some reason the whole thing gets on my nerves

3h • 04/12/2019 • 16:24



Victor (negative) Zvero... @vzverovich @Cor3ntin

Are you certain about that?

2h • 04/12/2019 • 17:28 •

Bjarne Stroustrup on Lex Fridman's AI Podcast

Podcast page

YouTube

Belfast trip reports

- Bryce Lelbach via Reddit
- Botond Ballo
 - Reddit
 - Papers on GitHub
- Timur Doumler via CppCast
 - Reddit
- · Ben Craig via Reddit
- Guy Davidson
 - Reddit

CLion 2019.3

A Quality-Targeted Release Focused on Performance and Some Long-Awaited Enhancements

- Announcement
- Download
- Reddit

MinGW Distro 17.0: GCC 9.2.0 and Boost 1.71.0 for Windows

- · Stephan T. Lavavej
 - Reddit

I've maintained this distro for over 14 years, and I still don't serve ads, sell anything, or accept donations.

• GCC 9

Sourcetrail is now free and open-source software

Blog post

GitHub

Reddit

When is it justified to use C++ for a project?

Reddit (1), Reddit (2)

Is it time for a rebased Boost2 that assumes C++20 as its starting point?

Reddit

TL;DR: No.

Eliminating the Static Overhead of Ranges

Colby Pike — Reddit

Without ranges

```
vector<string> child_names;
for (auto& person : all_people) {
    if (person.age < 14) {
        child_names.push_back(person.name);
    }
}</pre>
```

With ranges

```
auto children_names =
all_people

filter([](const auto& person) { return person.age < 14; })

transform([](const auto& person) { return person.name; })

to_vector;</pre>
```

The arrow operator (1/2)

StackOverflow:

The operator-> has special semantics in the language in that, when overloaded, it reapplies itself to the result. While the rest of the operators are applied only once, operator-> will be applied by the compiler as many times as needed to get to a raw pointer and once more to access the memory referred by that pointer.

The arrow operator (2/2)

```
1 struct A { void foo(); };
2 struct B { A* operator->(); };
3 struct C { B operator->(); };
4 struct D { C operator->(); };
int main() {
    D d;
    d->foo();
8 }
```

Thanks to Martin Waplington for suggesting this.

Twitter



Victor (Zverovich @vzverovich TDDD - technical debt driven development

5h • 17/10/2019 • 14:50



Quote

Ellen Ullman:

We build our computer (systems) the way we build our cities: over time, without a plan, on top of ruins.