C++ Club Meeting 103

Gleb Dolgich

2020-04-02

- Timur Doumler
- Reddit

> *I personally believe that C++20 is the most important update of the standard in this language's history.*

- mailing2020-03
- Reddit

Include guards vs. #pragma once (1/2)

- Microsoft

We recommend the `#pragma once` directive for new code because it doesn't pollute the global namespace with a preprocessor symbol. It requires less typing, is less distracting, and can't cause symbol collisions, errors caused when different header files use the same preprocessor symbol as the guard value.

- CppReference

Unlike header guards, this pragma makes it impossible to erroneously use the same macro name in more than one file. OTOH, since with `#pragma once` files are excluded based on their filesystem-level identity, this can't protect against including a header twice if it exists in more than one location in a project.

Include guards vs. #pragma once (2/2)

- C++ Core Guidelines

Some implementations offer vendor extensions like `#pragma once` as alternative to include guards. It is not standard and it is not portable. It injects the hosting machine's filesystem semantics into your program, in addition to locking you down to a vendor. Our recommendation is to write in ISO C++.

What syntax changes would you make to C++ if you had the chance?

- Reddit

- GitHub

- GitHub

Reddit

- Casey Muratori aka HandmadeHero
- C++ Weekly by Jason Turner
- Jonathan Blow
- TheChernoProject
- Bo Quian
- Hopson
- OneLoneCoder

Would you pick C++ for your own pet project in 2020?

- Reddit

Why so many people hate C++?

- Reddit

> *C++ gets a lot of hate because there are many really bad C++ programmers that think they're good and we're still cleaning up their messes. It's given the illusion that the language is bad because it allows them to do this. Link*

> *"There are only two kinds of languages: the ones people complain about and the ones nobody uses." – Bjarne Stroustrup via Tony Van Eerd*

> *Most of them failed to learn C++, mostly because they tried to learn from someone who didn't know C++. Link*

- MSVC Blog
- Reddit
- vcperf on GitHub

- Reddit

- toml++ (C++17, MIT)
- Reddit

See also: TOML Spec V0.5.0

A header-only, tiny and easy to use library for game programming and much more written in modern C++, mainly known for its innovative entity-component-system (ECS) model.

- GitHub (C++17, MIT)
- Reddit

- Article

- VS Blog

daisyowl @daisyowl

if you ever code something that "feels like a hack but it works," just remember that a CPU is literally a rock that we tricked into thinking

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