

# C++ Club UK Meeting 115

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## r/cpp status update

Reddit

WHAT.

## Book: C++ Best Practices by Jason Turner

LeanPub (min. \$9.99)

# id Tech – Game engines written in C++

## Engines and games

- [Reddit](#)

## Fabien Sanglard's game engine code reviews

- [Quake](#)
- [Quake 2](#)
- [Quake 3](#)
- [Doom 3](#)

See also

[Doom Eternal study](#)

# Should I use C++ exceptions?

Reddit

Yes.

## 6 Efficient Things You Can Do to Refactor a C++ Project

### B. Filipek

- 1 Update the Compiler and Set Correct C++ Standard Conformance
  - 2 Fix Code With Deprecated or Removed C++ Features
  - 3 Start Adding Unit Tests
  - 4 Decouple or Extract Classes
  - 5 Extract Non-member Functions
  - 6 Reduce the Global State
- [GitHub](#)
  - [Reddit](#)

Why do all guides use `#using namespace std` if it's supposedly really bad practice?

Reddit

# C++17 Zero allocation Coroutine/[Resumable function] library

## GitHub

This does not use C++20 coroutines. It is a managed state machine style coroutine library, a modern take on **Duff's device**.

## Reddit

*I do not buy any of these anti-coroutine arguments (maybe except for the fact that HALO can fail in some situations – but that is an engineering problem in the compiler). ⇒*

Later, same author on Reddit: **C++20 coroutines, opinions?** And yes, **Rust** gets mentioned.



# C/C++: 70x faster file embeds using string literals

## Article

- [GitHub](#)
- [Reddit](#)

# Why I like C++ attributes

Marius Bancila

Unpopular opinion: It's ok to derive from STL types/classes

Reddit

# C++ STL-Like Algorithm Libraries

Conor Hoekstra

# Library: Libcu++ - the NVIDIA Standard Library

GitHub

- [Reddit](#)

# Recursive lambdas in C++

Philip Trettner

```
1 auto fib = [](int n, auto&& fib) {  
2     if (n <= 1) return n;  
3     return fib(n - 1, fib) + fib(n - 2, fib);  
4 };  
5 auto i = fib(7, fib);
```

## Programmer on vacation

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Programmer on vacation, still thinking about the bugs.

