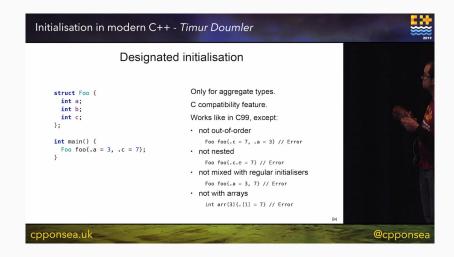
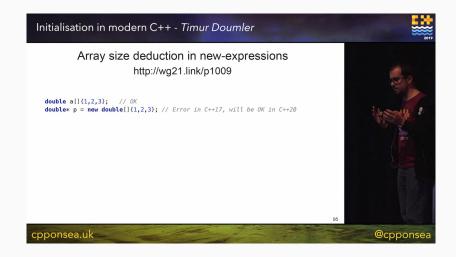
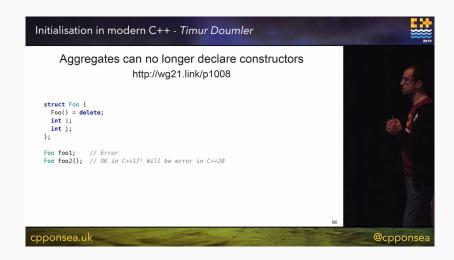
C++ Club Meeting Notes

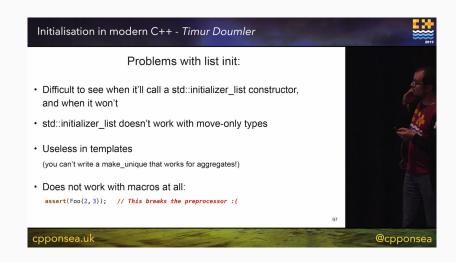
Gleb Dolgich

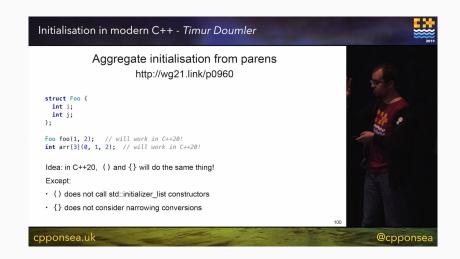
2020-01-30

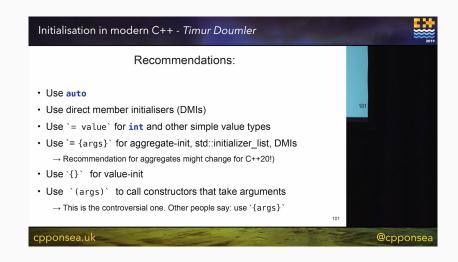












A new decade, a new tool: libman

- · Colby Pike (vector-of-bool)
- Reddit
- · GitHub
- · Specification

libman is a new level of indirection between package management and build systems.

dds is Drop-Dead Simple build and package manager.

· CppCon 2019: Robert Schumacher "How to Herd 1,000 Libraries"

Lucid C++ index

- · Lucid C++ index
- · Reddit

A hidden gem: inner_product

Article

A hidden gem: inner_product



Conor Hoekstra @code_report
@ocidb_ns & @TartanLlama

This makes me so incredibly happy! I literally just yesterday googled, C++17 / C++20 zip to see if they had anything, because I wrote some code in both C++ and #Python and Python was so much more beautiful.

4



Conor Hoekstra @code_report

👣 @cjdb_ns & @TartanLlama

Also, I just discovered std::inner_product - a beautiful temporary solution to a lack of zip. #cpp #inner_product

```
int solve(int h, vector<int> ); ( return max(e, inner, poduct(begin(v), ned(v), begin(1), e, [](auto a, auto b) { return max(a, b); }, [](auto a, auto b) { return max(a, b); }, b); }

27W • 16/12/2018 • 09:30
```

Lingo 0.1.0: Text encoding for modern C++

- · GitHub: C++11, MIT
- · Reddit

Argumentum

Argumentum is a C++17 library for writing command-line program interfaces, inspired by Python argparse

• GitHub: C++17, MPL

· Reddit

Structured Exceptions (Win32) and C++

- Raymond Chen: How can I handle both structured exceptions and C++ exceptions potentially coming from the same source?
 - Reddit
- Raymond Chen: Can I throw a C++ exception from a structured exception?

Book: C++ Move Semantics - The Complete Guide, by Nicolai Josuttis

Website

Move semantics, introduced with C++11, has become a hallmark of modern C++ programming. However, it also complicates the language in many ways. Even after several years of support of move semantics experienced programmers struggle with all the details of move semantics. And style guides still don't recommend the right consequences for programming even of trivial classes.

· Reddit

Happy there is a book. Not happy this requires a book.

[C++ coroutines] Initial implementation pushed to GCC master

- Message
- · Reddit

This is not enabled by default (even for -std=c++2a), it needs -fcoroutines

Concepts pushed to Clang master



#clang #concepts #trunk.

```
O3:09:53 projects | llvm-project | clang | git push trunk master |
Enumerating objects: 48, done.
Counting objects: 100% (48/48), done.
Delta compression using up to 8 threads
Compressing objects: 100% (24/24), done.
Writing objects: 100% (25/25), 4.10 KiB | 2.05 MiB/s, done.
Total 25 (delta 23), reused 1 (delta 1)
remote: Resolving deltas: 100% (23/23), completed with 23 local objects
To github.com:llvm/llvm-project.git
a156da5fb36..b933d37cd37 master -> master
```

2:31 AM · Jan 22, 2020 · Twitter for Android

Reddit

"Making new friends" idiom by Dan Saks

Wikibooks

The goal is to simplify creation of friend functions for a class template.

```
1 template<typename T>
  class Foo {
      T value;
   public:
 5
      Foo(const T& t) { value = t; }
 6
      friend ostream& operator <<(ostream& os, const Foo<T>& b)
 8
         return os << b.value;</pre>
 9
10 };
```