

Welcome to C++ Edinburgh

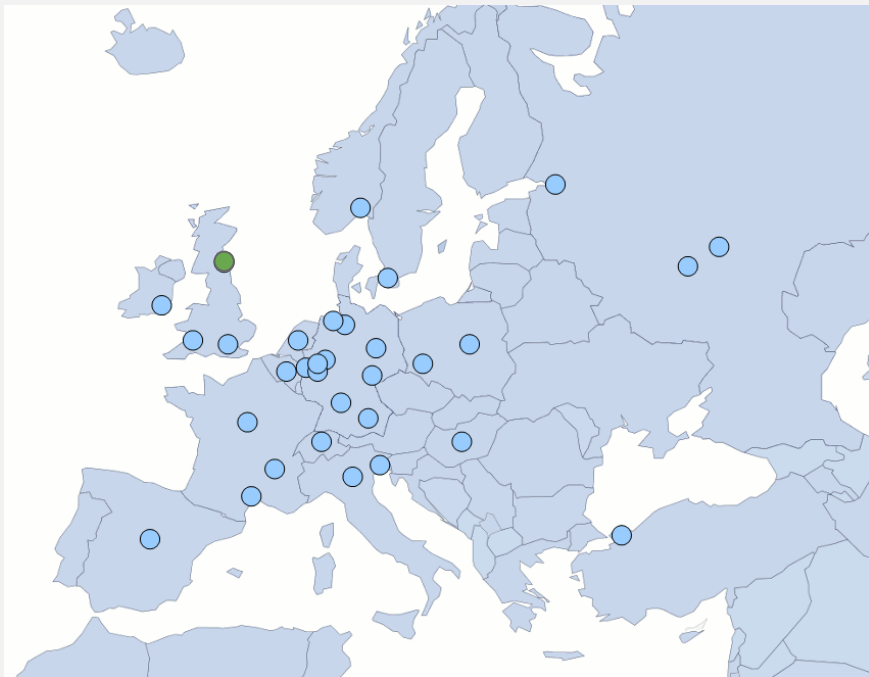
Joseph Mansfield
josephmansfield.uk
@sftrabbit

Thanks to our sponsors



C++ Edinburgh is back

Hurrah!



Meeting C++ - <http://www.meetingcpp.com/>

C++ Edinburgh is back

Compared to 2011



Meeting C++ - <http://www.meetingcpp.com/>

Part of something big

Hurrah again!

- 5.8 C++ UG Saint Louis - ["Fun with Lambdas" Lightning Talk\, Interview Questions and more](#)
- 5.8 C++ UG Austin - [Introduction to the QT Framework using C++ and QML](#)
- 6.8 C++ UG Edinburgh - [C++ Edinburgh](#)
- 10.8 C++ UG Denver - [Denver Tech Center C++ Developers](#)
- 12.8 C++ UG Utah - [Regular Monthly Meeting](#)
- 12.8 C++ UG San Francisco/ Bay area - [Presentation and Q&A](#)
- 12.8 C++ UG Washington, DC - [Q & A / Info Sharing](#)
- 17.8 C++ UG Austin - [North Austin Monthly C/C++ Pub Social](#)
- 17.8 C++ UG Juce - [Deploy Pure Data patches to any OS with JUCE](#)
- 18.8 C++ UG Berlin - [TBA](#)
- 19.8 C++ UG Düsseldorf - [Treffen der C++ User Gruppe NRW](#)
- 19.8 C++ UG Hamburg - [constexpr](#)
- 20.8 C++ UG Ruhrgebiet - [August Meetup - std::advance\(CodingStandard, Modern::c++\)](#)
- 24.8 C++ UG Göteborg - [Let's meetup and discuss the format for this group](#)
- 25.8 C++ UG Chicago - [Using NuGet to manage external dependencies in Visual C++ builds](#)
- 26.8 C++ UG San Francisco/ Bay area - [Workshop and Discussion Group](#)
- 26.8 C++ UG Washington, DC - [Q & A / Info Sharing](#)
- 26.8 C++ UG Aarhus - [Access Guards](#)
- 27.8 C++ UG Munich - [Pruning Error Messages From Your C++ Template Code](#)

Meeting C++ - <http://www.meetingcpp.com/>

Part of something big

Hurrah again!

- 5.8 C++ UG Saint Louis - ["Fun with Lambdas" Lightning Talk\, Interview Questions and more](#)
- 5.8 C++ UG Austin - [Introduction to the Qt Framework using C++ and QML](#)
- 6.8 C++ UG Edinburgh - [C++ Edinburgh](#)
- 10.8 C++ UG Denver - [Denver Tech Center C++ Developers](#)
- 12.8 C++ UG Utah - [Regular Monthly Meeting](#)
- 12.8 C++ UG San Francisco/ Bay area - [Presentation and Q&A](#)
- 12.8 C++ UG Washington, DC - [Q & A / Info Sharing](#)
- 17.8 C++ UG Austin - [North Austin Monthly C/C++ Pub Social](#)
- 17.8 C++ UG Juce - [Deploy Pure Data patches to any OS with JUCE](#)
- 18.8 C++ UG Berlin - [TBA](#)
- 19.8 C++ UG Düsseldorf - [Treffen der C++ User Gruppe NRW](#)
- 19.8 C++ UG Hamburg - [constexpr](#)
- 20.8 C++ UG Ruhrgebiet - [August Meetup - std::advance\(CodingStandard, Modern::c++\)](#)
- 24.8 C++ UG Göteborg - [Let's meetup and discuss the format for this group](#)
- 25.8 C++ UG Chicago - [Using NuGet to manage external dependencies in Visual C++ builds](#)
- 26.8 C++ UG San Francisco/ Bay area - [Workshop and Discussion Group](#)
- 26.8 C++ UG Washington, DC - [Q & A / Info Sharing](#)
- 26.8 C++ UG Aarhus - [Access Guards](#)
- 27.8 C++ UG Munich - [Pruning Error Messages From Your C++ Template Code](#)

Meeting C++ - <http://www.meetingcpp.com/>

The long-term plan

I've figured some things out.

Every 3 months.

So that means, approximately:

- August
- November
- February
- May

But we need speakers!

That's where you come in.

Want to do a talk at C++ Edinburgh?

Doing something interesting with C++ and would like to tell us about it at C++ Edinburgh? We'd love to see anything C++-related, whether personal projects, things you've learnt recently, or work you've done for your occupation. You'll be contacted at a later date to see if you'd be up for speaking at a particular event and don't worry, you can always change your mind. For questions, please contact cppedinburgh@gmail.com.

***Required**

What is your full name? *

What is your email address? *

Are you located within or around Edinburgh? *

☐ Yes

☐ No

Where do you work/study and what do you do?
(Optional)

<http://goo.gl/forms/bhS0M2mtGN>

Keep up-to-date

with C++ Edinburgh happenings.

<http://cppedinburgh.uk/>



@cppedinburgh



C++ Edinburgh



Mailing List

Questions?

C++ Update

August 2015

Joseph Mansfield
josephmansfield.uk
@sftrabbit

Thanks to our sponsors



Concepts TS was voted out

which means it was voted *in*.

© ISO 2014 — All rights reserved

ISO/IEC JTC1 SC22 WG21 N4377

Date: 2015-02-09

ISO/IEC PDTS 19217

ISO/IEC JTC1 SC22

Secretariat: ANSI

Programming Languages — C++ Extensions for Concepts

Langages de programmation — Extensions C++ pour les concepts

CppCon 2015 program is available

and registration is open.



CppCon - <http://cppcon.org/>

CLion 1.0 released





















a very cool new IDE from JetBrains.



CLion - <http://www.jetbrains.com/clion/>

CppCast going strong

Lots of great interviews with C++ developers.

 Jul 23 Rust with Steve Klabnik	 May 27 Testdriven C++ using Catch with Phil Nash	 Apr 2 Fit and Tick with Paul Fultz II
 Jul 9 WebAssembly with JF Bastien	 May 20 Modern C++ for the Windows Runtime with Kenny Kerr	 Mar 25 Exploring CLion with Anastasia Kazakova
 Jul 2 POCO Project with Aleksandar Fabijanic	 May 13 Boost 2.0 with Robert Ramey	 Mar 19 CMake, Git and Functional Programming with David Sankel
 Jun 24 Exercism.io and Refactoring with Richard Thomson	 May 7 SQLpp11 with Roland Bock	 Mar 12 Cross Platform Mobile C++ in Visual Studio with Ankit Asthana
 Jun 17 News Roundup	 Apr 22 Asynchronous Programming with Hartmut Kaiser	 Mar 5 ChaiScript and Cross Platform C++ with Jason Turner
 Jun 10 C++11/14 Library Best Practices with Niall Douglas	 Apr 15 Biicode and Turbo with Manuel Sanchez	 Feb 17 Jon Kalb loves the C++ Community with Jon Kalb
 Jun 1 Better Code Concurrency with Sean Parent	 Apr 10 Quick Game Development with Vittorio Romeo	

CppCast - <http://cppcast.com/>

Modern C++ now on GitHub

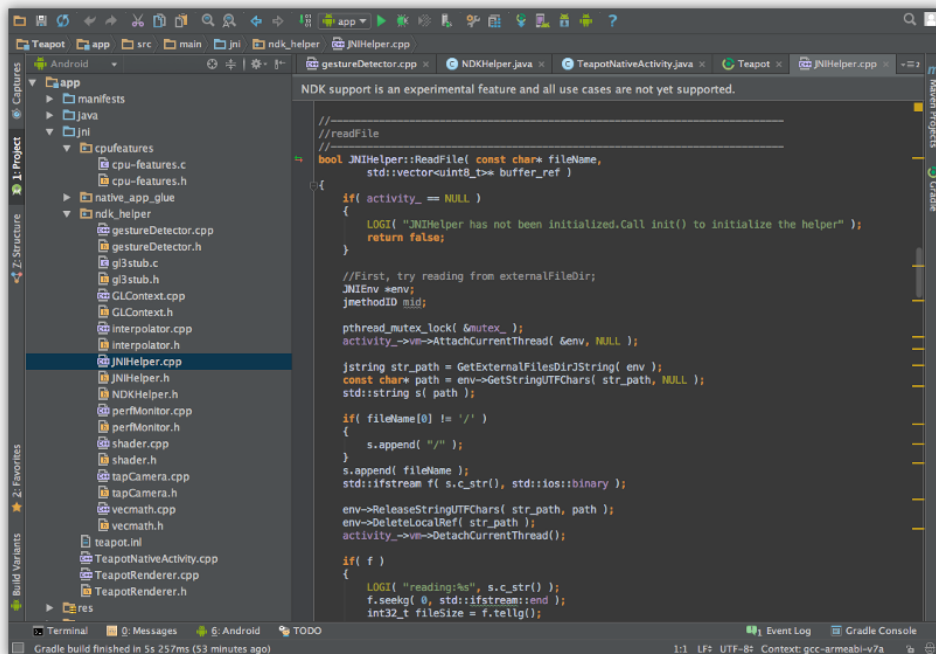
Probably the most confusing project name.

Modern is a Standard C++ language projection for the Windows Runtime.

<https://github.com/kennykerr/modern>

Android Studio now has NDK support

at least in the canary build.



C++ Samples

Tooting my own horn...

C++samples

A repository of modern C++ code samples curated by the community.

 Follow @cppsamples

Featured sample: Flip a biased coin

```
#include <random>

int main()
{
    std::random_device random_device;
    std::mt19937 random_engine{random_device()};
    std::bernoulli_distribution coin_distribution{0.25};

    bool outcome = coin_distribution(random_engine);
}
```

INTENT

Generate a random boolean value according to a bernoulli distribution.

DESCRIPTION

`c++11`

The `std::random_device` on line 5 provides a source of uniform non-deterministic random numbers (where such a source is available). We use this to seed the Mersenne Twister random number engine, [Continue reading](#) →

C++ Samples - <http://www.cppsamples.com/>

Questions?