PROGRAMMER'S LIFE

```
real story;
string sender = "@notsodeep";
```

#180

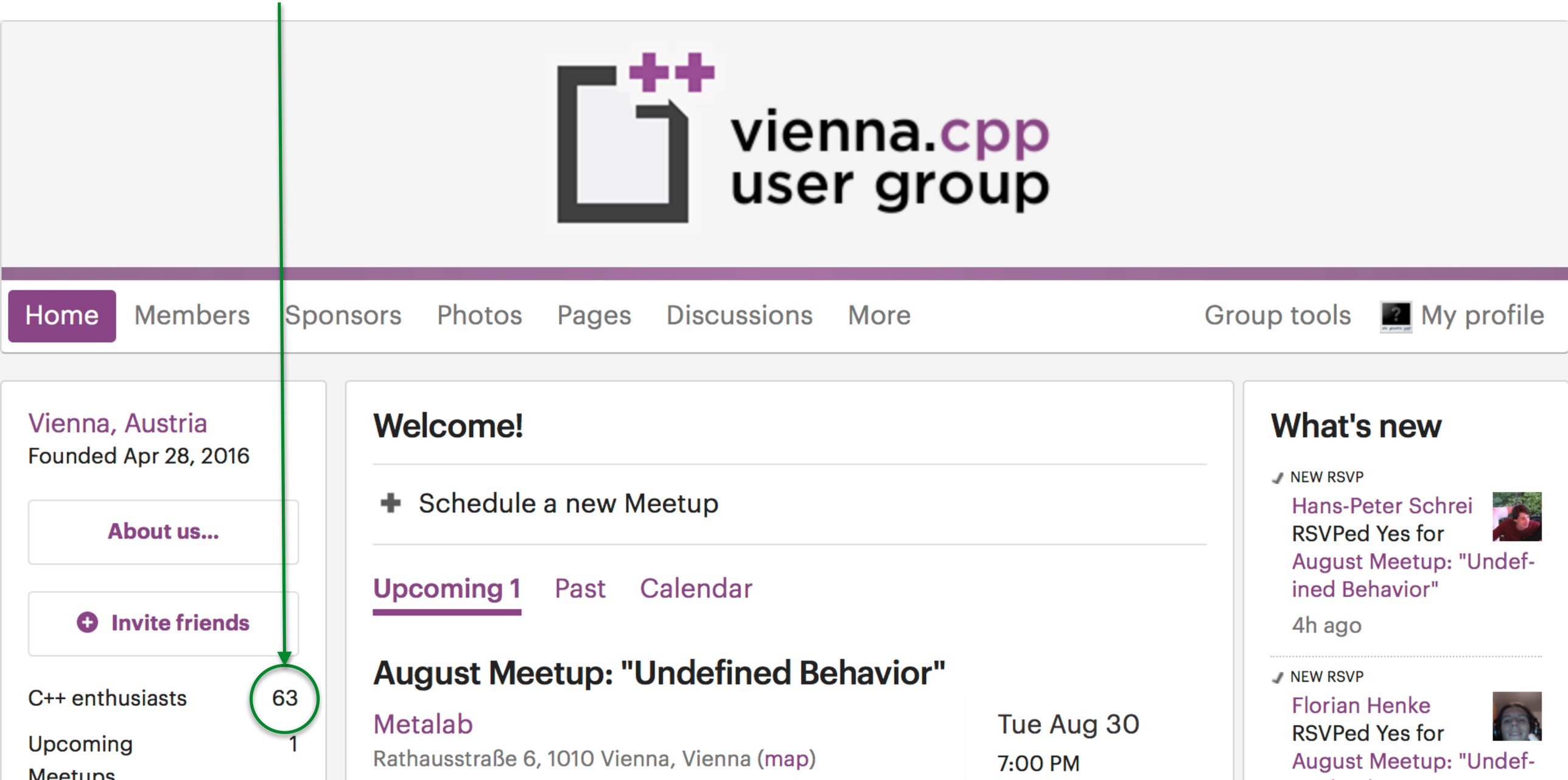
August meetup

vienna.cpp user group

Organizational Stuff

Organizational Stuff

- vienna_cpp_user_group.members() > 60



Organizational Stuff

- poll.cpp of the month
  - One poll one month before the next meeting, question will be decided on the meeting
  - posted on reddit/r/cpp

Organizational Stuff

- September Meetup
- DateTimeLocation:
  27/09 @7pm @metalab.lib
- Possible topic:
  C++ Interview Questions

Organizational Stuff

- vienna.cpp user group std lib meeting
- DateTimeLocation:
  04/10 @7pm @metalab.lib
- Topic:
  std::min(...)

C++ News

C++ News

- opt-in header-only libraries

opt-in header-only libraries

6 august 2016

c++ c++14 library cmake api tutorial article

An interesting **header-only** logging library, *spdlog*, was recently posted on Reddit. A comment by Sean Middleditch sparked an interesting discussion on the thread:

> "Header only" is an anti-feature. Fast compiles are important. PCHes only fix a fraction of the problems of header bloat. Avoiding 15 minutes of setup to get a library building/precompiled in exchange for months of lost productivity waiting for slow builds is a pretty bad trade off.

Here are some of the replies:

> "Honestly, I lost months of productivity trying to handle the compilation of twenty libraries on X different platforms with Y different link flags, with X and Y both > 10"
>
> "Respectfully, I disagree. Header-only libraries save a lot of setup stage time and they were a real breeze to work with when it comes down to cross-platform development. Some may argue that CMake solves that problem, but I would argue that CMake is a problem itself."

Another reply is particularly interesting, and inspired me to write this article:

http://vittorioromeo.info/index/blog/2016_cpp_library_configuration_api.html

> really nice for quick setups, small and test projects (tutorial, workshops...), or having

C++ News

- opt-in header-only libraries with CMake

```
cmake_minimum_required(VERSION 3.3)

project(example_lib)

# define the library

set(library_srcs
    example_lib/library/module0/module0.cpp
    example_lib/library/module1/module1.cpp
)

add_library(library_static STATIC ${library_srcs})
add_library(library_shared SHARED ${library_srcs})

add_library(library_iface INTERFACE)
target_compile_definitions(library_iface
    INTERFACE LIBRARY_HEADER_ONLY
)

set(installed_srcs
    include/example_lib/library/module0/module0.cpp
    include/example_lib/library/module1/module1.cpp
)
add_library(library_srcs INTERFACE)
target_sources(library_srcs INTERFACE
    $<INSTALL_INTERFACE:${installed_srcs}>
)

# install and export the library

install(DIRECTORY
    example_lib/library
  DESTINATION
    include/example_lib
)
install(FILES
```

https://steveire.wordpress.com/2016/08/09/opt-in-header-only-libraries-with-cmake/

```
  DESTINATION
    include/example_lib
```

C++ News

- Mangrove: MongoDB ODM

mongodb-labs / **mangrove**

Watch 9 | Star 7 | Fork 1

Code | Issues 0 | Pull requests 1 | Pulse | Graphs

Mangrove: the MongoDB C++ ODM http://mongodb-labs.github.io/mangrove

41 commits | **10** branches | **0** releases | **2** contributors

Branch: **master** | New pull request | Find file | Clone or download

Adam Chelminski CXXODM-19 Add support for mongocxx::options:: in active-record save()... | Latest commit 29472f2 25 days ago

build	initial commit	3 months ago
buildscripts	CXXODM-44 Rename everything to Mangrove, except the repo	a month ago
etc	CXXODM-46 CXXODM-48 CXXODM-14 Add README, Doxyfile, and Hugo-powered ...	a month ago
examples	CXXODM-62 Include cereal headers for supported STL containers	28 days ago
hugo	CXXODM-58 Add support for `$where` operator in builder.	24 days ago
src	CXXODM-19 Add support for mongocxx::options:: in active-record save()...	19 days ago
.clang-format	initial commit	3 months ago
.gitignore	CXXODM-46 CXXODM-48 CXXODM-14 Add README, Doxyfile, and Hugo-powered ...	a month ago
.travis.yml	CXXC	
.ycm_extra_conf.py	initial commit	3 months ago

https://github.com/mongodb-labs/mangrove

C++ News

- CppCheck 1.75 released

Cppcheck
A tool for static C/C++ code analysis

Home | Wiki | Forum | Issues | Developer Info | Online Demo | Project page

Download Features News Documentation Support Contribute

Cppcheck is a static analysis tool for C/C++ code. Unlike C/C++ compilers and many other analysis tools it does not detect syntax errors in the code. Cppcheck primarily detects the types of bugs that the compilers normally do not detect. The goal is to detect only real errors in the code (i.e. have zero false positives).

Download

Download Now! Version 1.75 for Windows (64-bit)

Download Now! Version 1.75 for Windows (32-bit)

Clients and plugins

Cppcheck is integrated with many popular development tools. For instance:

- **CLion** - Cppcheck plugin
- **Code::Blocks** - *integrated*

http://cppcheck.sourceforge.net

C++ News

- **Qt Lite**

Nils Christian Roscher-Nielsen

Introducing the Qt Lite project—Qt for any platform, any thing, any size

Published Thursday August 18th, 2016

29 Comments

Posted in Biz Circuit & Dev Loop

We believe in a future of great software and hardware, developed together, delivered quickly, and that you can have fun in the process. Embedded development should be just as simple as all other software development, and you should immediately see the result of your ideas running on your device.

The amount of devices and things surrounding us are rapidly increasing, becoming more intelligent and requiring software that runs on a greater variety of hardware—everything from IoT devices with or without a screen, smart watches through to high end smart TVs and industrial grade PCs. As the requirements and the world of software development is changing so does Qt. We have taken action and are now unveiling the Qt Lite Project. This is a whole range of changes to Qt, allowing you to strip Qt down and brin you need in order to create your device for more or less any platform anc regardless of size. Qt Lite is neither a separate product nor a fork of Qt— it is all built into

Join us at #QtWS16

http://blog.qt.io/blog/2016/08/18/introducing-the-qt-lite-project-qt-for-any-platform-any-thing-any-size/

C++ News

- **range-v3 on MSVC on GitHub**

Visual C++ Team Blog

Visual Studio

Range-v3 on MSVC is Available on GitHub

August 23, 2016 by EricMittelette // 10 Comments

We are delighted to announce that the Visual C++ Team just published an implementation of range-v3 on the Microsoft GitHub repo.

This contribution comes hot on the heels of our recent work to improve expression SFINAE on our Visual Studio 2015 Update 3 VC++ compiler . This is the first implementation of the Range TS running in MSVC. In "Ranges for the Standard Library, Revision 1" (N4128) Ranges are defined like this: "*A range is an object that refers to a sequence of elements, conceptually similar to a pair of iterators. One prime motivation for ranges is to give users a simpler syntax for calling algorithms. Rather than this:*

```
std::vector<int> v { /*...*/ };
std::sort( v.begin(), v.end() );
Ranges would give us a pithier syntax:
std::sort( v );"
```

More information on range-v3 here

Supporting Ranges is important to our C++ team, as exemplified not only by us hiring one of the key ma the investments we continue to make in this feature across our entire compiler (from parsing to code gen

C++ News

- range-v3 on MSVC on GitHub

Eric Niebler
@ericniebler

Folgen

Want a better compiler? Write a popular library that the compiler fails utterly to compile and wait. @visualc github.com/Microsoft/Rang… #cpp

Übersetzung anzeigen

Microsoft/Range-V3-VS2015

Range-V3-VS2015 - A fork of the popular range-v3 C++ library with support for the Visual S

https://twitter.com/ericniebler/status/768195533840146432?lang=de

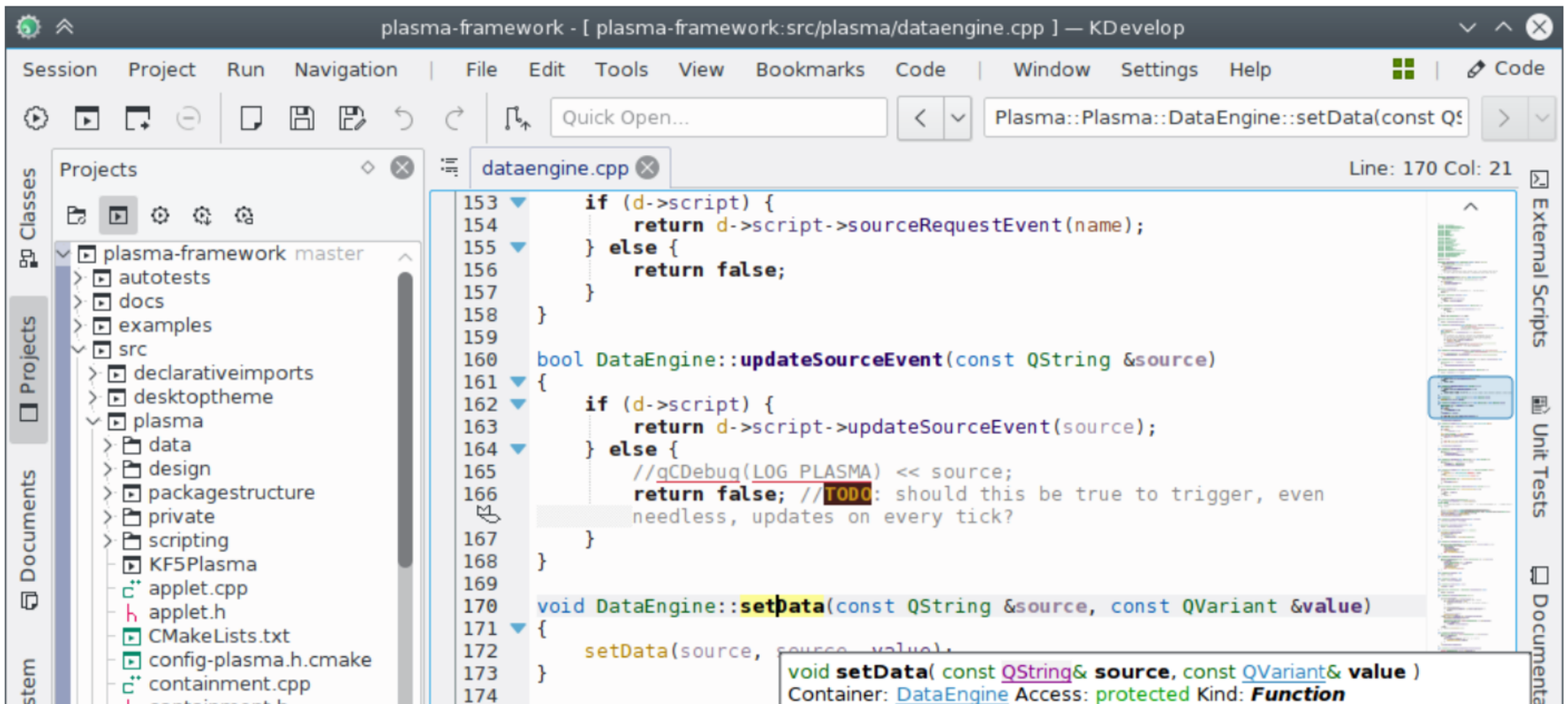
C++ News

- KDevelop 5.0.0 released

What's new in KDevelop 5.0?

August 23, 2016 | Tags: kdevelop, kde, kdevelop-release

Almost two years after the release of KDevelop 4.7, we are happy to announce the immediate availability of KDevelop 5.0!



http://kfunk.org/2016/08/23/whats-new-in-kdevelop-5-0/

Other (Tech) News