

C++ Club Meeting Notes

Gleb Dolgich

2019-11-07

Reddit

- PyTorch
- TensorFlow for C++
- Shogun

The sad history of Unicode printf-style format specifiers in Visual C++

Raymond Chen

Reddit

Introducing Magnum Python Bindings

Blog

PyBind11

Steve Downey

Template meta-programming: Some testing and debugging tricks

Ivan Cukic

Article

GitHub

Reddit

Corentin Jabot

P0443R11 The Unified Executors Proposal

Eliminating the Static Overhead of Ranges

Colby Pike, Reddit

Without ranges

```
1 vector<string> child_names;
2 for (auto& person : all_people) {
3     if (person.age < 14) {
4         child_names.push_back(person.name);
5     }
6 }
```

With ranges

```
1 auto children_names =
2     all_people
3     | filter([](const auto& person) { return person.age < 14; })
4     | transform([](const auto& person) { return person.name; })
5     | to_vector;
```

- [Wikipedia](#)
- [We don't need no stinking expression templates](#) by Andy G
 - [Reddit](#)

Change standard containers' `size()` method to return signed integer?

Reddit

A Python script that simplifies C++ compiler errors. Useful when using heavily-templated libraries.

[GitHub](#)

Is requiring lambdas to explicitly list what they capture a good coding standard?

Reddit

- GCC 9
- GCC 8.2 by STL