C++ Club Meeting Notes

Gleb Dolgich

2019-06-06

Apple SwiftUI and C++

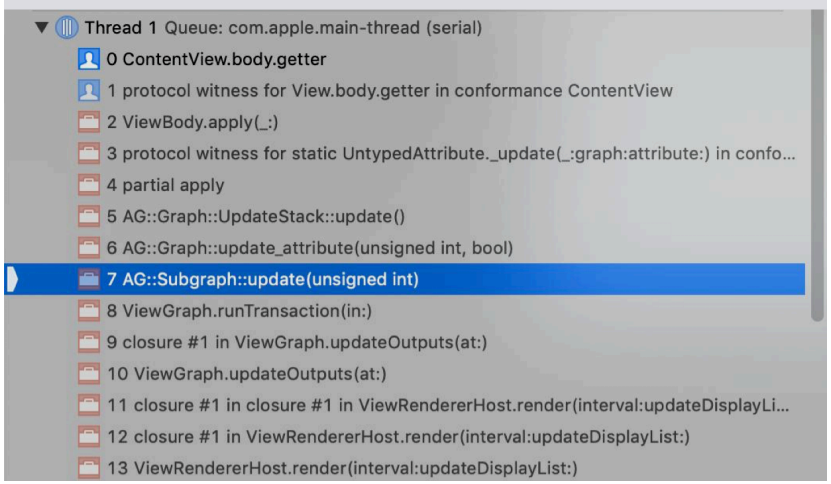
Zhuowei Zhang
@zhuowei

6 Replies, 10 Quotes

Apple: Swift is a system programming language that can replace C++
Also Apple: writes new #SwiftUI library in C++
#wwdc

04/06/2019, 21:03 (Yesterday)
Twitter Web Client

344 Likes | 97 Retweets | Thread >



Myths about C++

https://www.reddit.com/r/cpp/comments/bvf78q/myths/

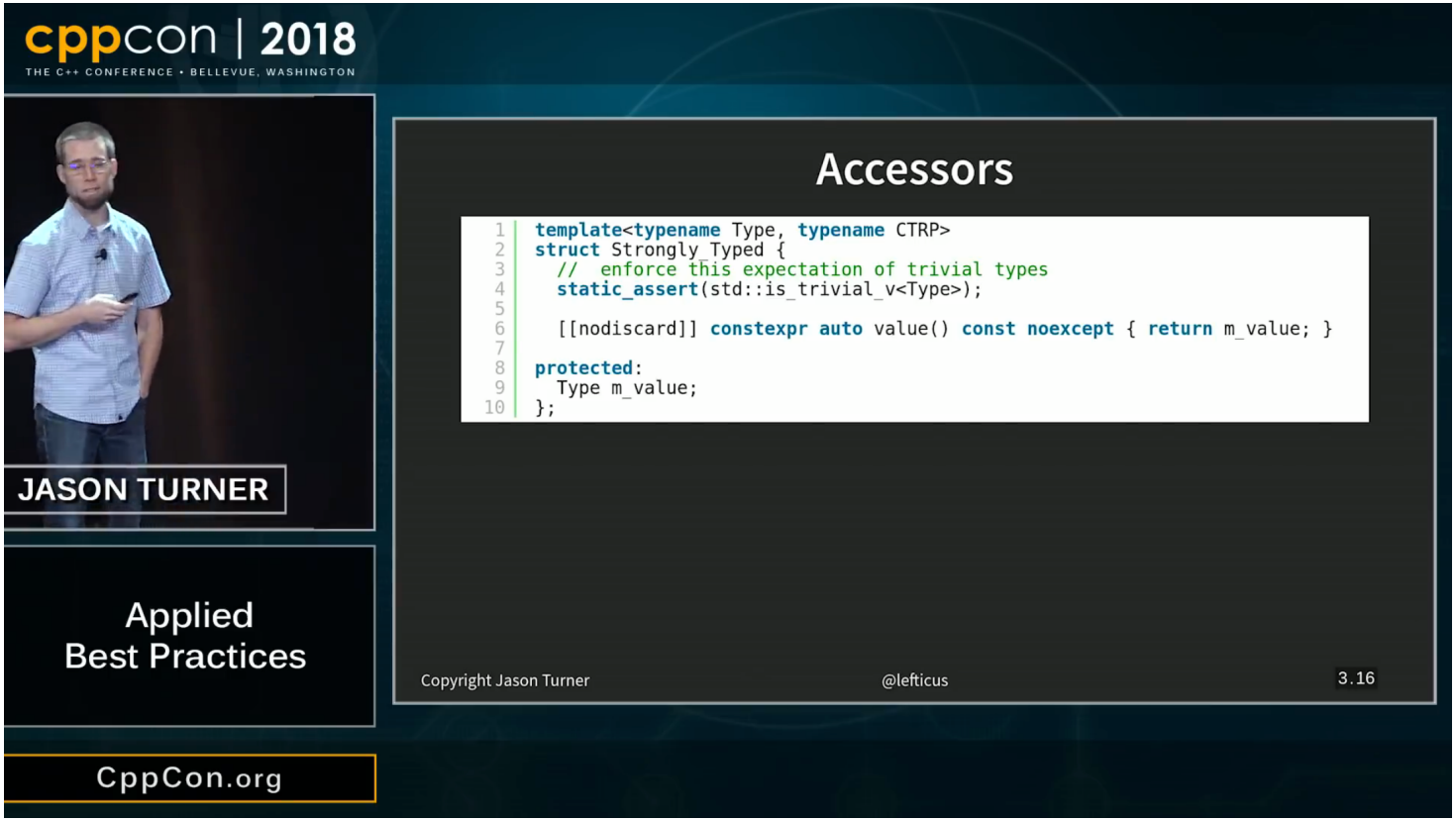
See also

- Bjarne Stroustrup - Five Popular Myths about C++

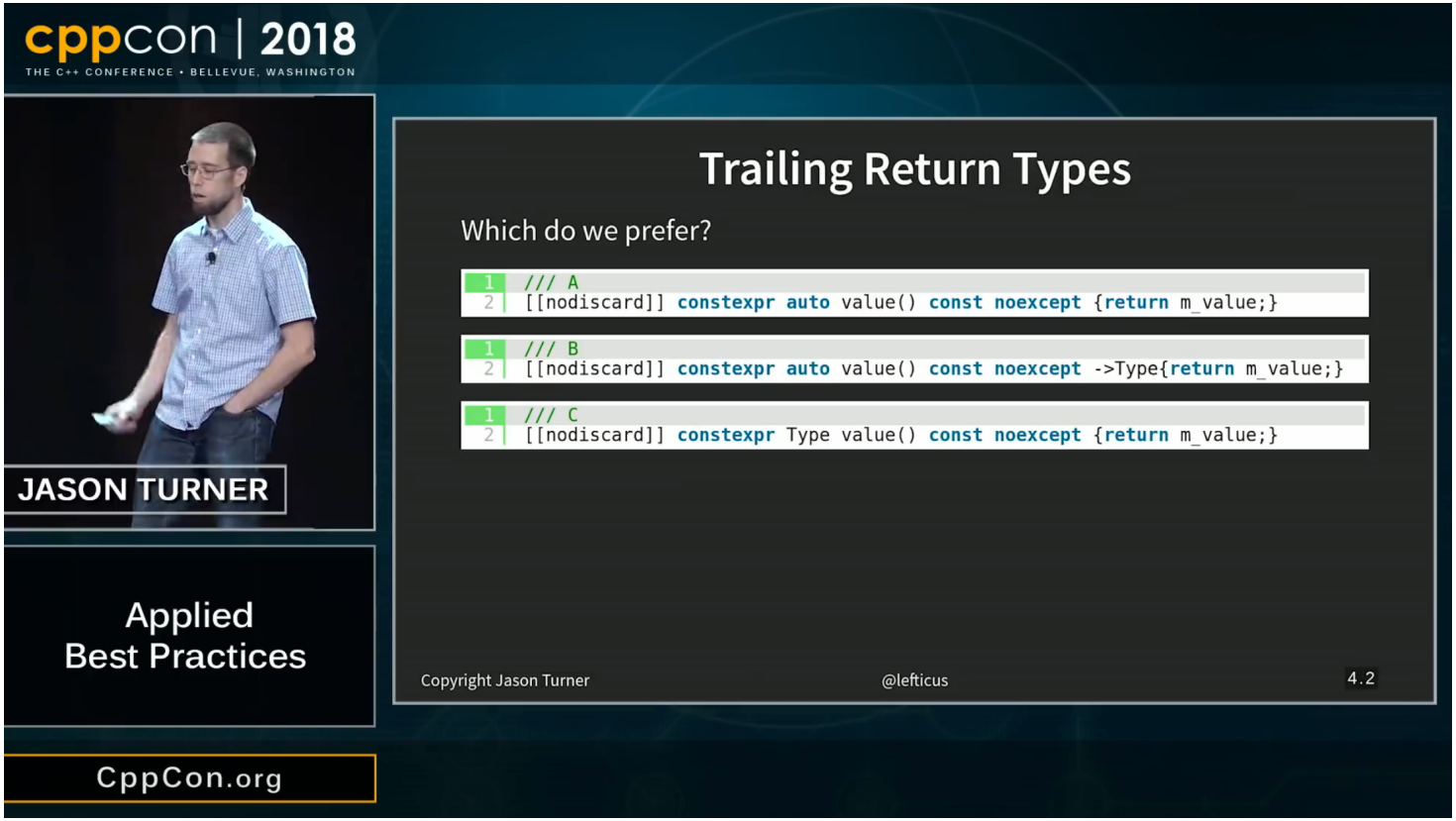
CppCon 2018: Jason Turner - Applied Best Practices

- Video: https://youtu.be/DHOlsEd0eDE
- Slides: https://github.com/CppCon/CppCon2018/blob/master/Presentations/applied_best_practices/applied_best_practices__jason_turner__cppcon_2018.pdf

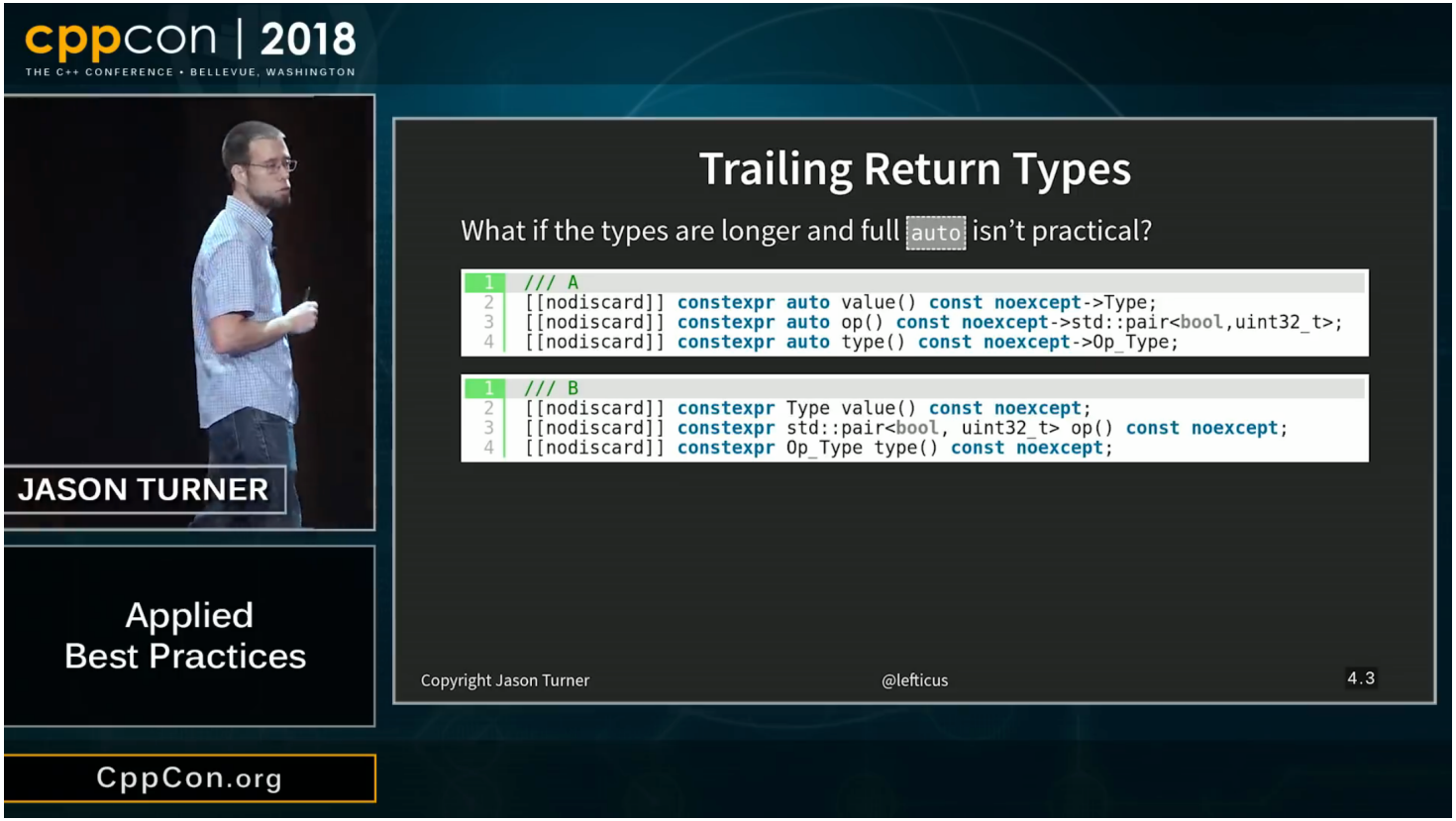
CppCon 2018: Jason Turner - Applied Best Practices (cont.)



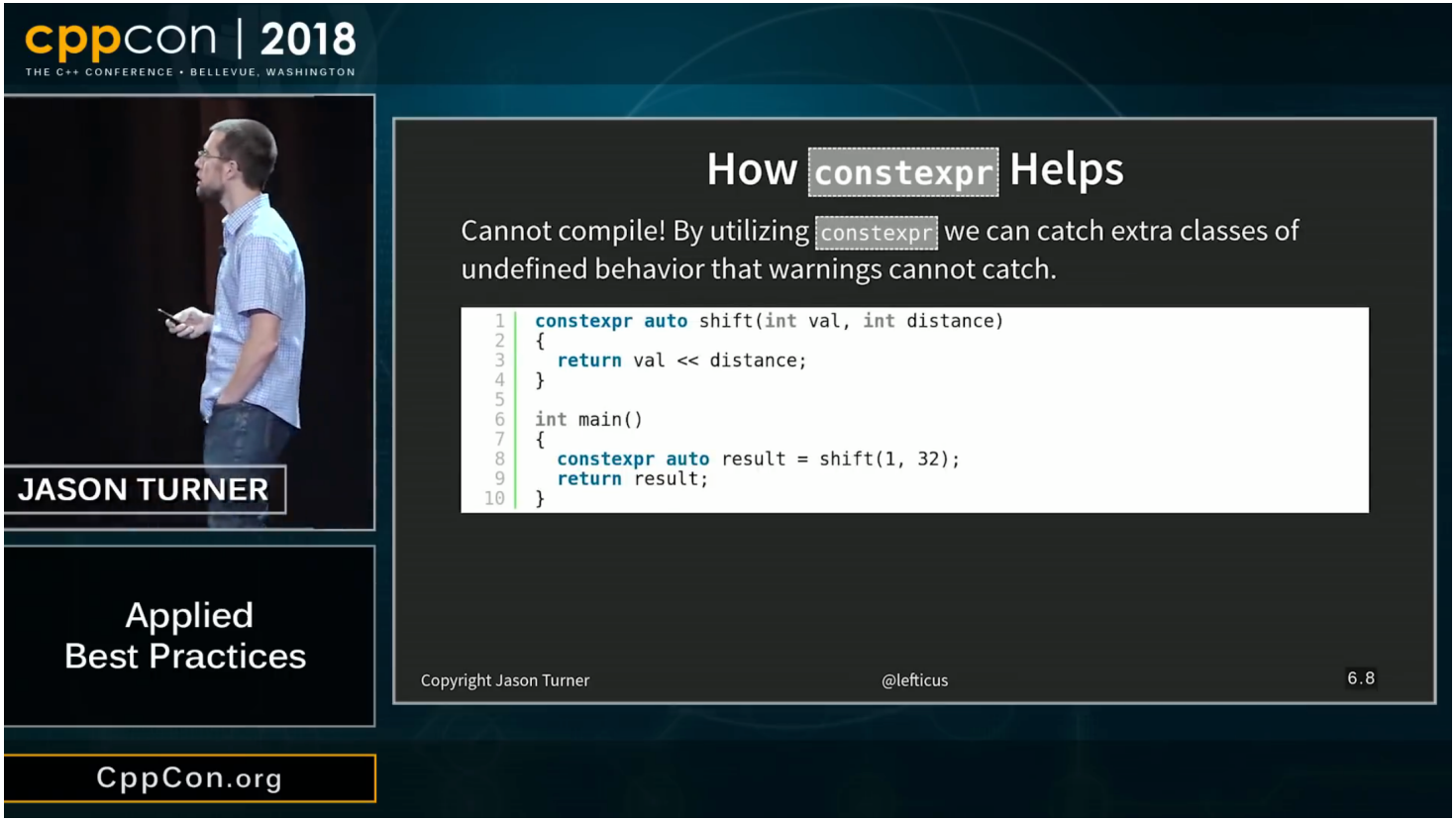
CppCon 2018: Jason Turner - Applied Best Practices (cont.)



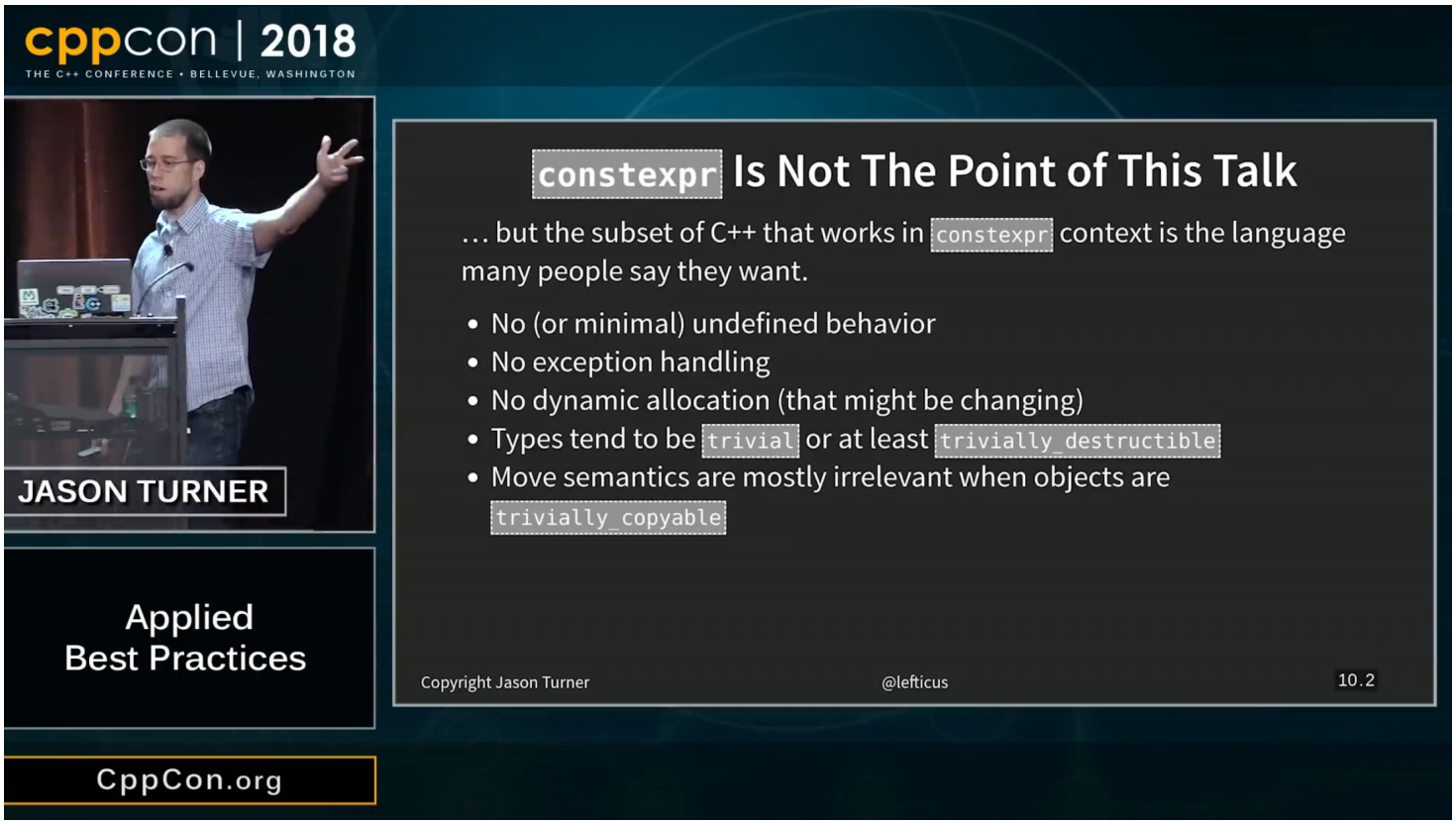
CppCon 2018: Jason Turner - Applied Best Practices (cont.)



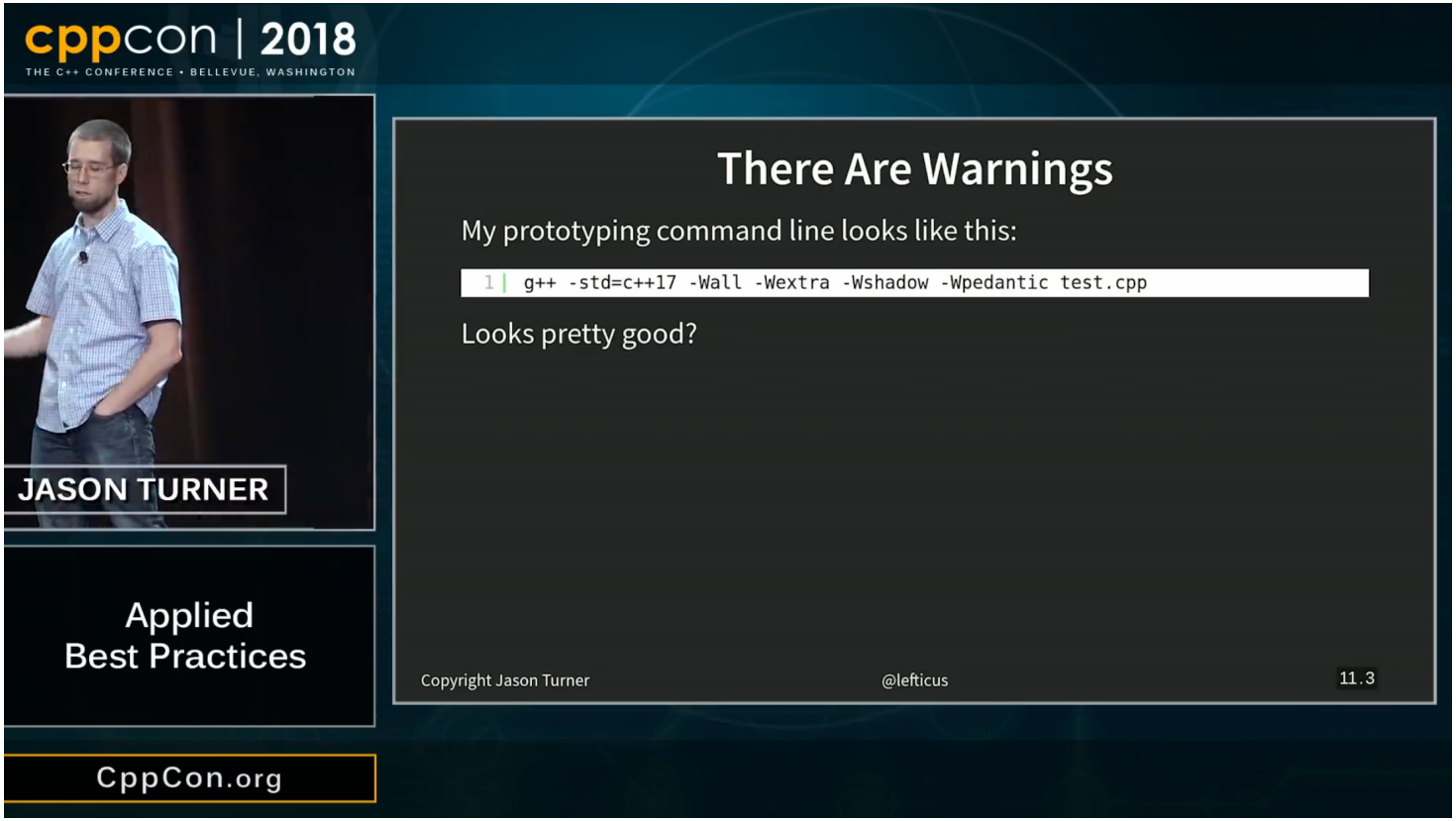
CppCon 2018: Jason Turner - Applied Best Practices (cont.)



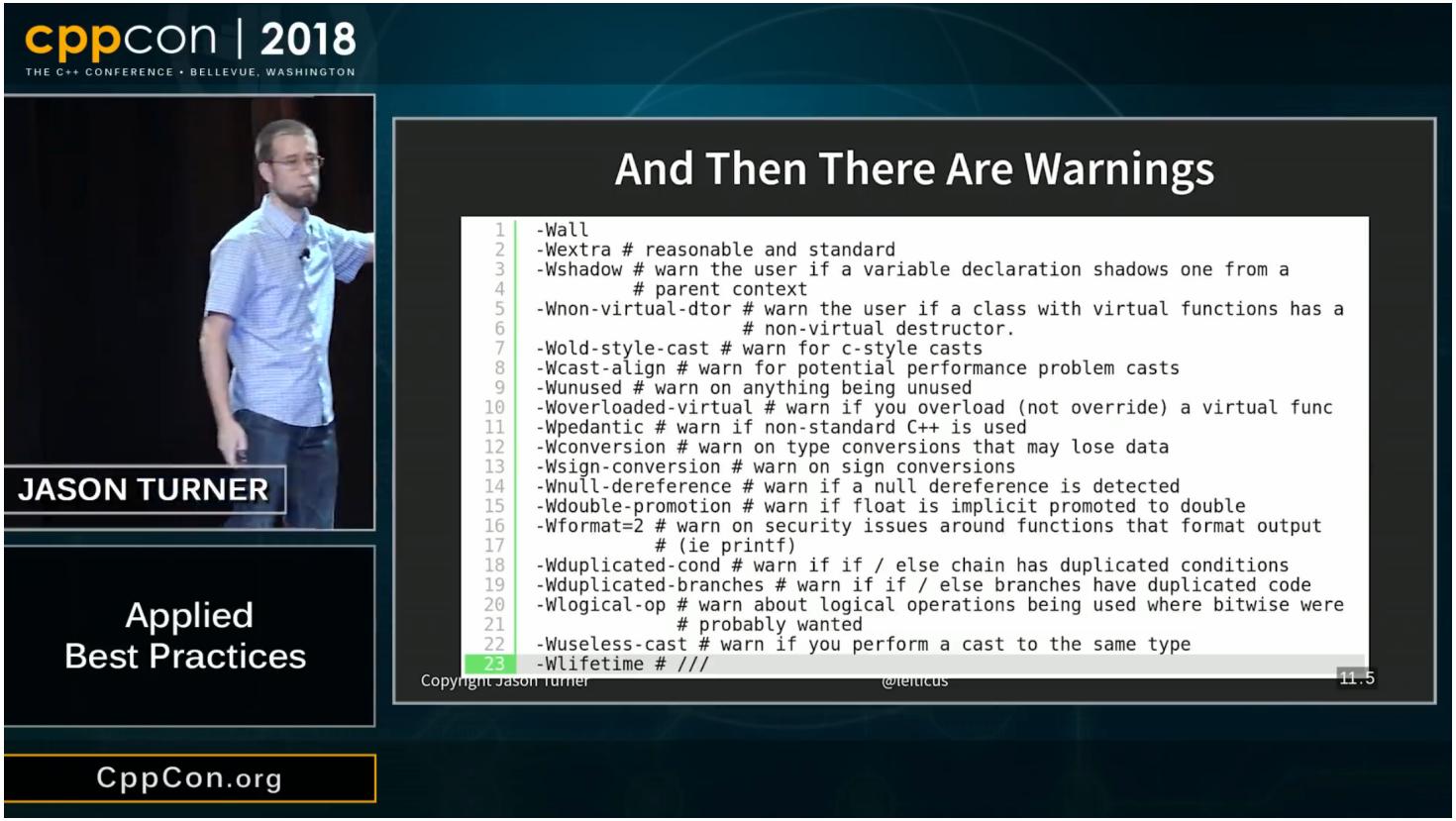
CppCon 2018: Jason Turner - Applied Best Practices (cont.)



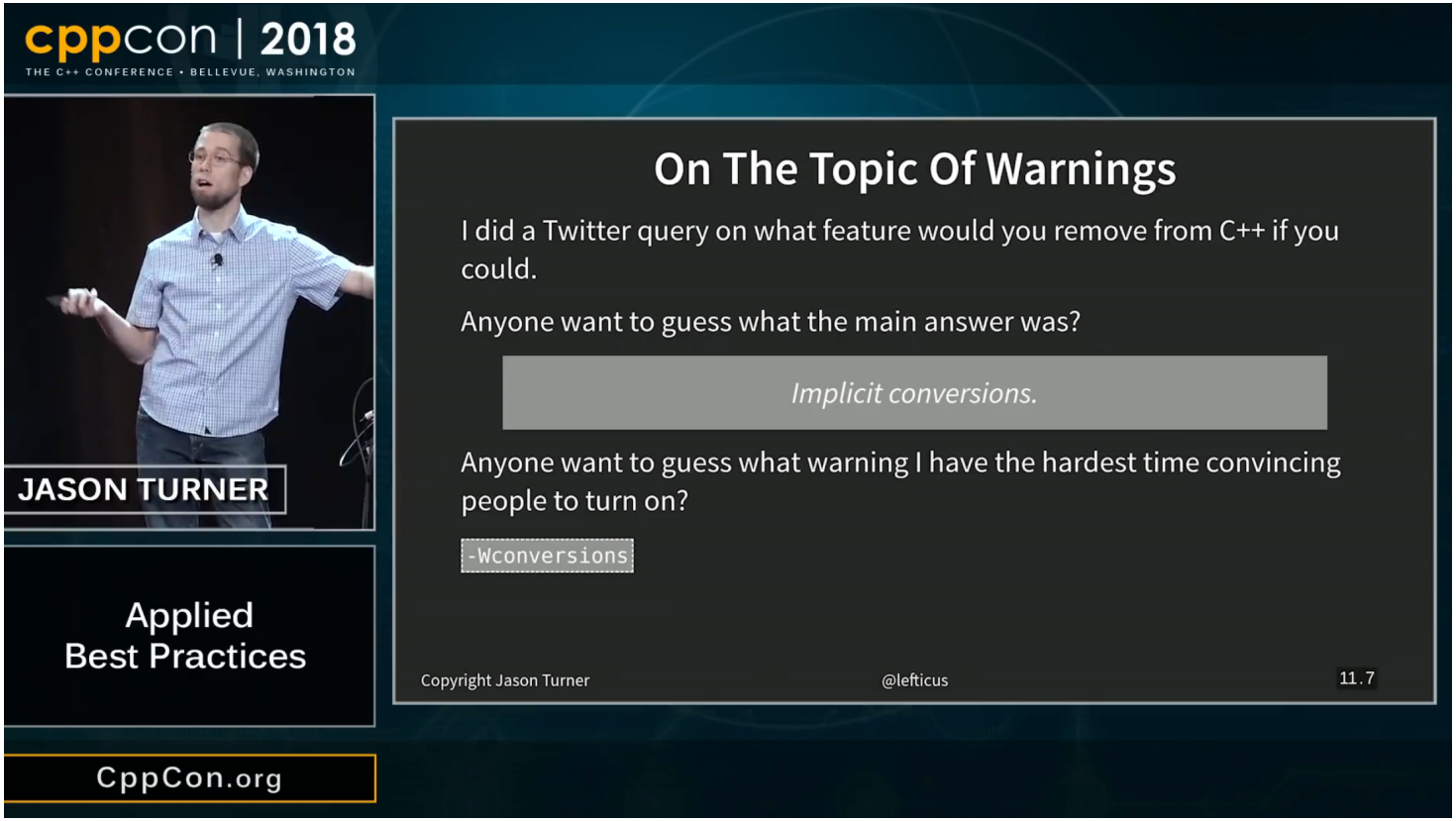
CppCon 2018: Jason Turner - Applied Best Practices (cont.)



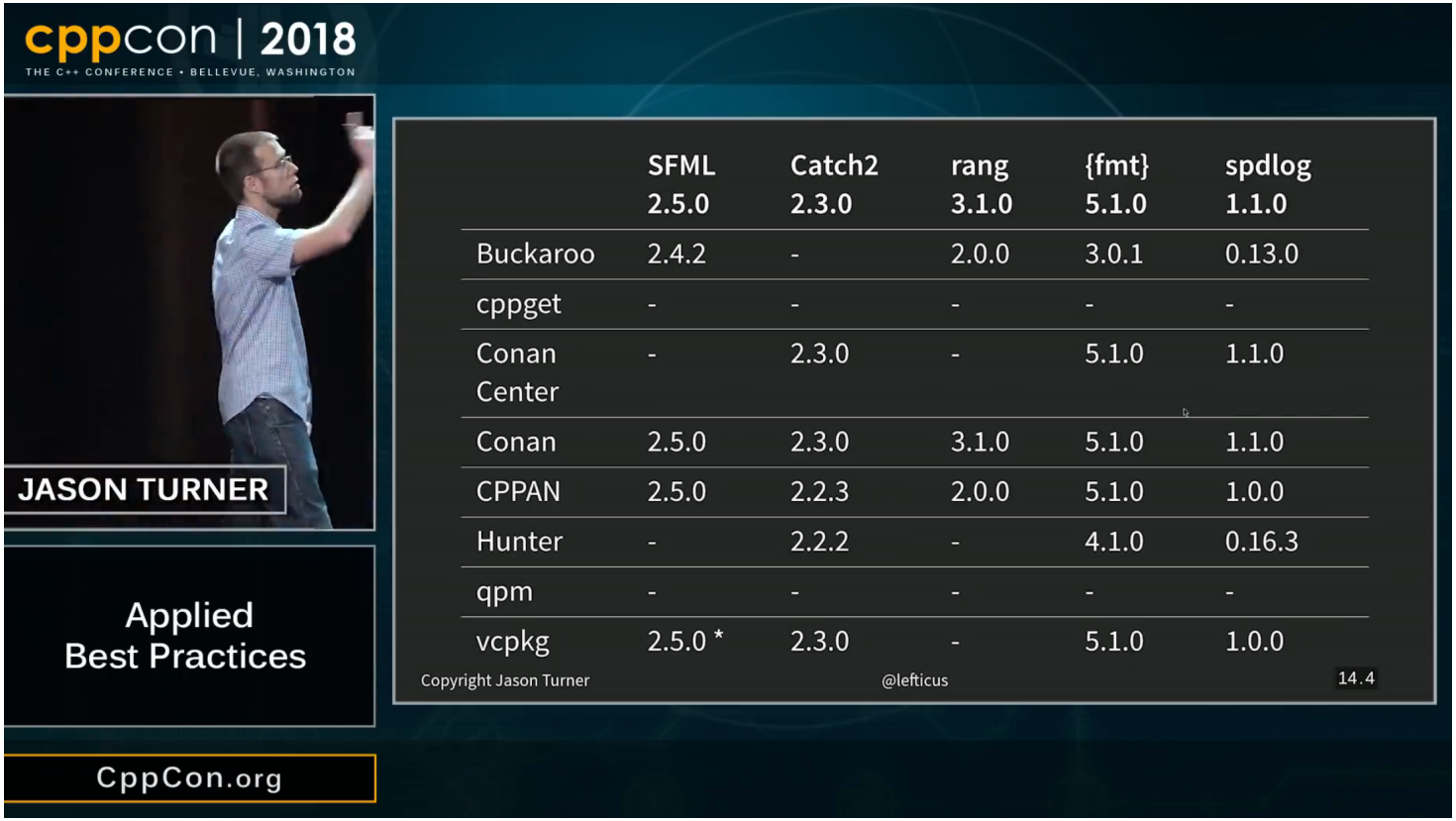
CppCon 2018: Jason Turner - Applied Best Practices (cont.)



CppCon 2018: Jason Turner - Applied Best Practices (cont.)



CppCon 2018: Jason Turner - Applied Best Practices (cont.)



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Buckaroo	2.4.2	-	2.0.0	3.0.1	0.13.0
cppget	-	-	-	-	-
Conan Center	-	2.3.0	-	5.1.0	1.1.0
Conan	2.5.0	2.3.0	3.1.0	5.1.0	1.1.0
CPPAN	2.5.0	2.2.3	2.0.0	5.1.0	1.0.0
Hunter	-	2.2.2	-	4.1.0	0.16.3
qpm	-	-	-	-	-
vcpkg	2.5.0 *	2.3.0	-	5.1.0	1.0.0

Simplifying C++ with Herb Sutter

- CppCast http://cppcast.com/2019/05/herb-sutter/
  - Reddit https://www.reddit.com/r/cpp/comments/bv3bc9/cppcast_simplifying_c_with_herb_sutter/
- A theme: Simplifying C++ (& CppCast podcast) https://herbsutter.com/2019/06/01/a-theme-simplifying-c-cppcast-podcast/
  - Reddit https://www.reddit.com/r/cpp/comments/bvukm6/a_theme_simplifying_c_cppcast_podcast/

Awesome Modern C++

https://awesomecpp.com/

C++ Operator Signatures

https://gist.github.com/beached/38a4ae52fcadfab68cb6de05403fa393

https://github.com/glebd/cppclub/blob/next/3rd/C%2B%2B%2520normal%2520operators.md

Hedley

Hedley: A C/C++ header to help move `#ifdef`s out of your code

- Home page: https://nemequ.github.io/hedley/
- Reddit: https://www.reddit.com/r/cpp/comments/bm2xyk/hedley_a_cc_header_to_help_move_ifdefs_out_of/

STXXL

STXXL: Standard Template Library for Extra Large Data Sets.

The core of STXXL is an implementation of the C++ standard template library for external memory (out-of-core) computations, i. e., STXXL implements containers and algorithms that can process huge volumes of data that only fit on disks. While the closeness to the STL supports ease of use and compatibility with existing applications, another design priority is high performance.

- Home: http://stxxl.org/
- Code: https://github.com/stxxl/stxxl (Boost Software License)
- Video: http://panthema.net/2014/0622-Talk-STXXL-1.4.0-and-Beyond/

Function Poisoning in C++

https://www.fluentcpp.com/2018/09/04/function-poisoning-in-cpp/

```
1 #include <stdio.h>
2 #pragma GCC poison puts
3
4 int main() {
5     puts("a");
6 }
7
8 // error: attempt to use poisoned "puts"
```

Deprecating and Deleting Functions in C++

https://www.fluentcpp.com/2018/11/20/deprecating-and-deleting-functions-in-cpp/

```
1 [[deprecated("Replaced by fillmem, which has an improved interface")]]
2 void* memset(void*, int, size_t);
```

Clear, Functional C++ Documentation with Sphinx + Breathe + Doxygen + CMake

https://devblogs.microsoft.com/cppblog/clear-functional-c-documentation-with-sphinx-breathe-doxygen-cmake/

See also

- CppCon 2017: Robert Ramey “How to Write Effective Documentation for C++ Libraries...”
- Eli Bendersky - reStructuredText vs. Markdown for technical documentation
- Viktor Zverovich - reStructuredText vs Markdown for documentation

Twitter

Timur Doumler
@timur_audio

How do you pronounce "tuple"?

/tupəl/ ("toople")	**47%**
/tʌpəl/ ("tupple")	31%
/tjupəl/ ("tewple")	22%

411 votes · Final results

01:11 · 30/05/2019 · Twitter for iPhone

Quote

Cedric Guillemet @skaven_:

> *Any sufficiently advanced C++ codebase contains a Utils.cpp/h*