



cppcon
the c++ conference

TRIP REPORT – CPPCON 2020

A virtual journey to the world of C++

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Some ideas

- Not a “formal” discussion – Trying to be maximum interactive as possible.
- Please have your camera on – seeing faces creates a connective discussion.
- Please stay on mute unless you’re speaking.
- Your feedback is more than valuable.



Q & A – Some ideas

- “I’m not a C++ expert, I’m just another programmer like you”.
- Encourage colleagues to answer questions / if you want to make any additions.
- Type questions in chat window.
- Or use “raise hand” feature in Teams at the end of the session.

What to expect from this session

- CppCon overview
- CppCon conference segments
- How I get opportunity to attend CppCon this year?
- CppCon 2020 specialities – “Virtual conference”, First impressions
- Some talks I felt so interesting
- Pros & Cons of virtual conference
- Q & A / Your valuable thoughts
- Lightning talk



A quick question

What is Cppcon?

- Annual, week-long face-to-face gathering for the *entire* C++ community.
- Organized by the C++ community for the community. 7th edition this year.
- Project of Standard C++ foundation
 - Non-profit organization supports C++ dev community, promote understanding & use of modern, standard C++ on all compilers and platforms.
- Conference happens in Colorado, US
- Friendly atmosphere designed to help attendees learn from each other

CppCon conference segments

- **Keynote sessions**
- **Panel discussions**
- **C++ talks**
- **Quiz nights**
- **Expo halls, swags**
- **CppCon slack channel**
- **Lightning talks**
- **Birds of a Feather**
- **Ask me Anything**
- **Socializing opportunities**
- **Live music**
- **Follow up Q & A sessions**
- **CppCon Academy (Paid)**

How I get opportunity to attend CppCon this year?

- CppCon conference is usually expensive
 - Premium quality talks, Travel & lodging cost extra
- CppCon 2020 is fully “online” due to Covid 19.
 - Ticket prices slashed down to 300\$.
- I came to know about “scholarship” by **#include <C++>**
 - Global, inclusive, and diverse community for developers interested in C++.
 - Without any expectation, I applied for it.
 - Fortunately I was selected and was given a free ticket to attend the week-long CppCon.
 - Conference happened in MST hours; afternoon to late night (Irish time)



CppCon 2020 specialities – “Virtual conference”

- First ever “online” CppCon.
- Almost a thousand attendees from all over the world.
- 87 premium quality C++ talks.
- Chemistry of high-end virtual tools worked like a charm – “Remo” platform was the hero
 - Remo, slack, Youtube, .. for attendees
 - Uber conference, streamyard.com and many more.. for speakers

First impressions

- Welcome session on Sunday, Sep 13th
- Familiarisation with Remo platform - Met some participants at Remo tables.
- Some tables were silent, a few tables were very active, people get crowded to those tables.
- There was a welcoming feel everywhere. Some participants were too actively speaking, some were silently listening.

First impressions

- Lightning talk chair (Michael Caisse) was jumping over several of these tables, trying to find out people to sign up for lightning talk.
- A few previous year's excellent lightning talks were played by Michael Caisse. Most inspiring one was:-
 - CppCon 2018: Walter E. Brown "Thank You (I'm sorry that it's taken me so long to say it)"
 - That lightning talk really deserved a minute of silence and the standing ovation from the attendees then !!!
- Coincidentally, I was in the same Remo table as Walter while this talk was playing. So when the talk was finished, I could get the opportunity to hear his emotional words when someone else asked to him about the talk experience.

Interesting keynote sessions

- All keynote sessions were really informative. Couldn't see all though.
 - First day, conference started with Bjarne's keynote
 - Really inspiring seeing the “Father of C++” still actively involving in C++ community and encouraging the community and language to grow.
 - A specific C++ library for messaging (using modern C++) which his team is now implementing.
 - “The Beauty and power of “primitive” C++”

Interesting keynote sessions

- Second day, keynote session was really impressive and systematic
 - “C++ 20 – An almost complete overview by Marc Gregoire
 - He literally gave a walkthrough of all the major new additions in C++20
 - Author of “Professional C++” textbook.

Interesting keynote sessions

- “Performance Matters” - Emery Berger
- Professor at Amherst, Massachusetts
- Really interesting / little known programming factors that affects code performance.

Some talks I felt so interesting

- Future of C++ parallel and concurrency safety guidelines
 - Michael Wong & Ily Burylov
 - Michael Wong – Chair of Embedded/ML study group. Also MISRA C++ / AutoSAR.
- Modern software needs embedded modern C++ programming
 - Michael Wong
- Modern C++ safety and security at 20
 - Mathew Butler

Some talks I felt so interesting

- Structure and interpretation of Computer programs : SICP
 - Conor Hoekstra
 - Talks about the classic computer science book
 - And later, his favourite segment – Some problem solving using standard library headers
- How C++20 changes the way we write code
 - Timur Doumler

Lightning talks favourites

- SICP cover demystified – Conor Hoekstra
- How to cook a chicken – Sy Brand
- Drinking from the Fire Hose - Brian Ruth
- Code samples that compile even more easily – Clare Macrae
- Programming : The last 4000 years – Juanpe Bolivar

Pros and Cons of Virtual conference

Pros

- Ticket price slashed down
- A new positive idea in these pandemic times.
- Private Youtube links provided to attendees.
- Increased diversity / no: of participants
- Watching more than one talk in different tracks

Cons

- Remo platform walkthrough would have helped at least some attendees.
- More stressful for committee and volunteers as they have to manage different time-zones.
- Timezone not convenient for all participants across globe.
- Some participants even tried working and attending conference
- Time for Q & A session could have been improved.

Q & A



Thank you....

*Signing off...
Honey Sukesan*

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