



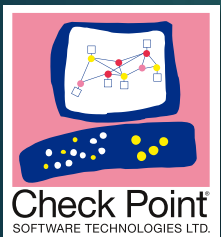
Decorative background featuring several stylized flowers with three petals each. The petals are colored in shades of orange, olive green, and yellow. In the center of each flower is a blue circular logo containing the C++ symbol. The flowers are scattered across the top and sides of the slide.

Welcome!

Distributed JLM/TLV Core C++

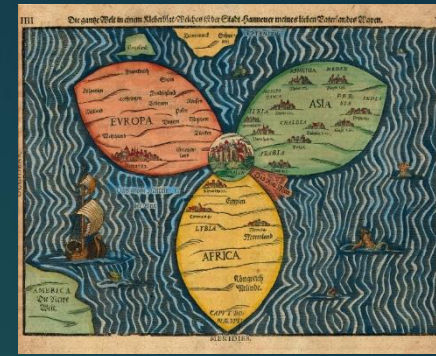
2019-Mar-28

XVIII



Core C++ Goals

- ▶ Local community
- ▶ JLM → • ← TLV
- ▶ Diverse community
- ▶ Focus on C++
- ▶ Broad range of topics
- ▶ Monthly meetings
- ▶ Beginner *and* Expert Levels

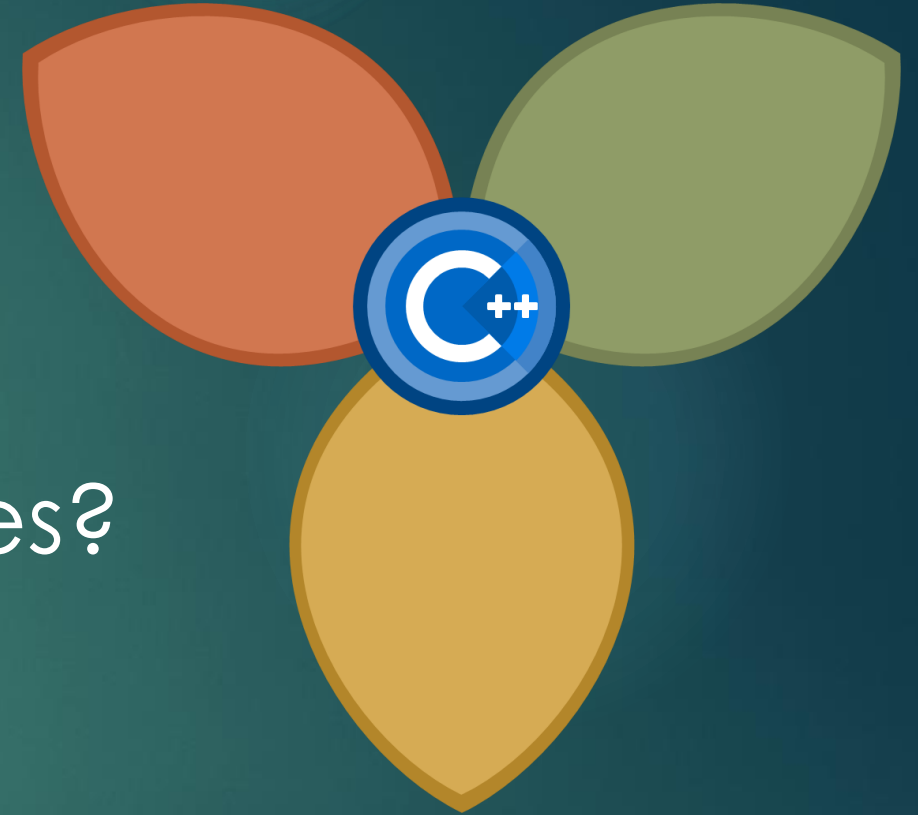


1581 mappa mundi



Census

- ▶ Who's here for the first time?
- ▶ Who's looking to hire?
- ▶ Who's looking for opportunities?
- ▶ *Meet Your Neighbor*
 - ▶ *Who, Where, if(!dev)What?*



Presence

▶ Meetup: meetup.com/CoreCpp



▶ YouTube: [CoreCppIL goo.gl/FYnqKu](https://www.youtube.com/channel/UCg00glFYnqKu)



▶ Web: corecppil.github.io/Meetups



▶ Twitter: [@corecpp twitter.com/corecpp](https://twitter.com/corecpp)



▶ C++ Slack: [#ug_il_corecpp](https://join.slack.com/join/shared_invite/zt-1000000000-ug_il_corecpp)



▶ Facebook: facebook.com/corecpp



Core C++ News

▶ Subs  239,  1051,  868

▶ Live Streaming!

▶ <https://checkpoint.zoom.us/j/478317713>

▶ Next Meetup TBD





C++ News

- ▶ Post-Kona: C++20 Feature Freeze!
- ▶ **C++'s largest release since C++11:**
 - ▶ Modules, coroutines, concepts, contracts
 - ▶ $\langle = \rangle$ spaceship, lots more constexpr
 - ▶ Ranges, calendars & time zones, span
- ▶ C++-on-Sea Videos online!

- ▶ **Programming with Contracts in C++20**

- ▶ Björn Fähler youtu.be/Dzk1frUXq10

Programming with Contracts in C++20 - Björn Fähler

Ringbuffer example

```
template <typename T, int N>
class ringbuffer {
public:
    ringbuffer();
    // ensures: size() = 0
    int size() const;
    const T& back() const;

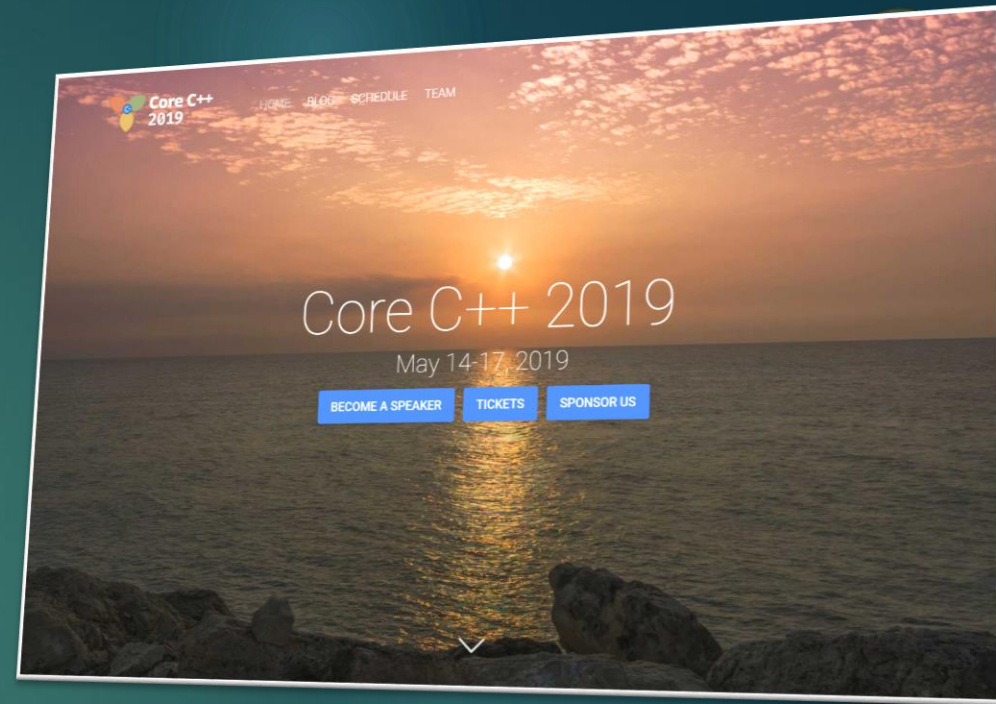
    void push_back(T t);
    // requires: size() < N
    // ensures: size() = old size()+1
    //          back() = t
    T pop_front();
    // requires: size() > 0
};
```

Postcondition:
A guarantee from the implementation regarding the effect of a legal call.

cpponsea.uk @cpponsea

Core C++ 2019

- ▶ **Our** Conf! May 14-17 @ MTA
- ▶ corecpp.org
- ▶ 2-days, 2-tracks
- ▶ Pre/Post conf. workshops, SG20 Teaching C++
- ▶ Intl. & Local speakers & trainers
- ▶ 66 submissions for 16 slots!
- ▶ Notifications sent!



**Limited Seats!
Tickets Available
Now!**





Core C++ 2019 Training

Limited Seats!
Tickets Available
Now!

1. **Jason Turner**

- ▶ Understanding Object Lifetime



2. **Phil Nash**

- ▶ Accelerated TDD: For More Productive C++



3. **Amir Kirsh**

- ▶ C++ Best Practices Revisited Better Code, Better Work-life Balance [HEB]



4. **Dan Saks**

- ▶ Embedded Systems Programming in C++



5. **Diego Rodriguez-Losada Gonzalez**

- ▶ A practical introduction to Conan C++ Package Manager



Keynotes



JASON TURNER

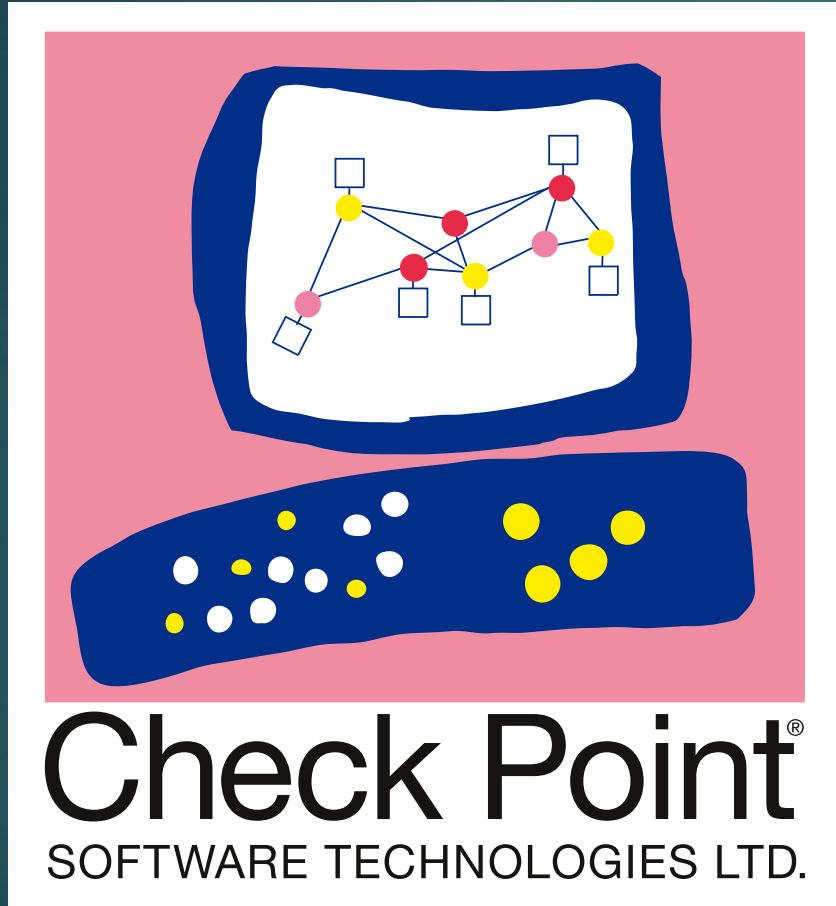


BRYCE LELBACH

Great Speakers



Sponsors



Agenda

19:00 :: Updates and News

19:15 :: **Defensive Programming**, Noam Weiss

19:30 :: **C++ Programming for the Heap-Deprived**, Asaf Helfer

20:25 :: break;

20:30 :: **A Closer Look at Guaranteed Copy Elision**, Yossi Moualem

