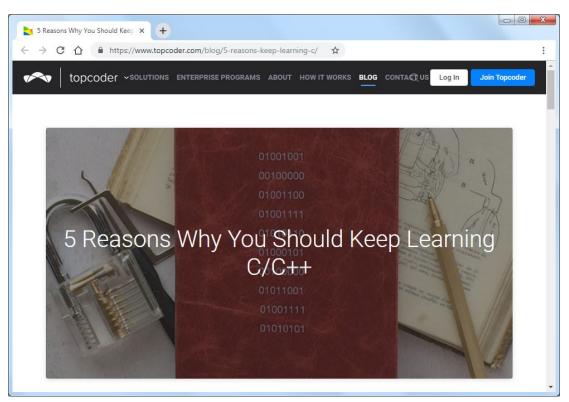
C/C++ is very similar to Java/JavaScript

Eran Gilad Yahoo Research, Haifa::C++



#### Motivation

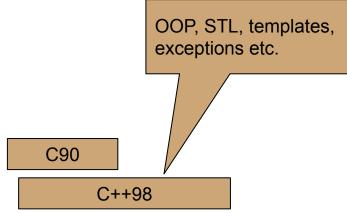


#### A brief history of C/C++

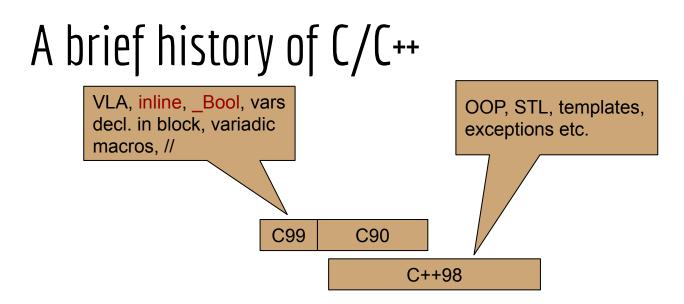
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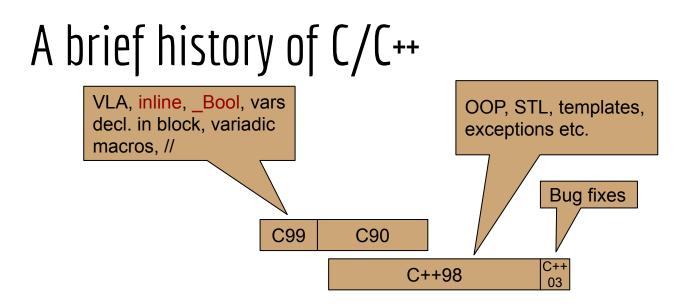
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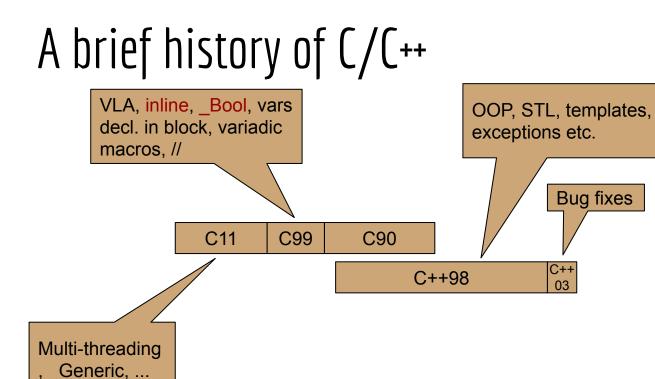
## A brief history of C/C++



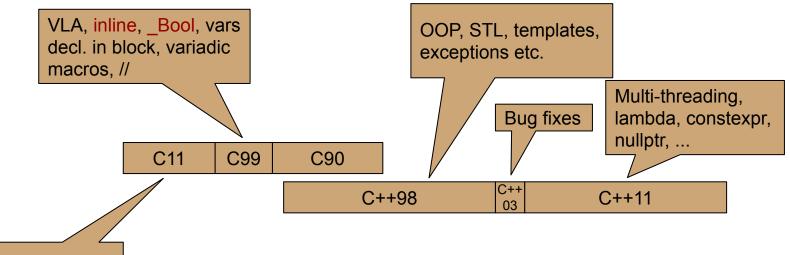
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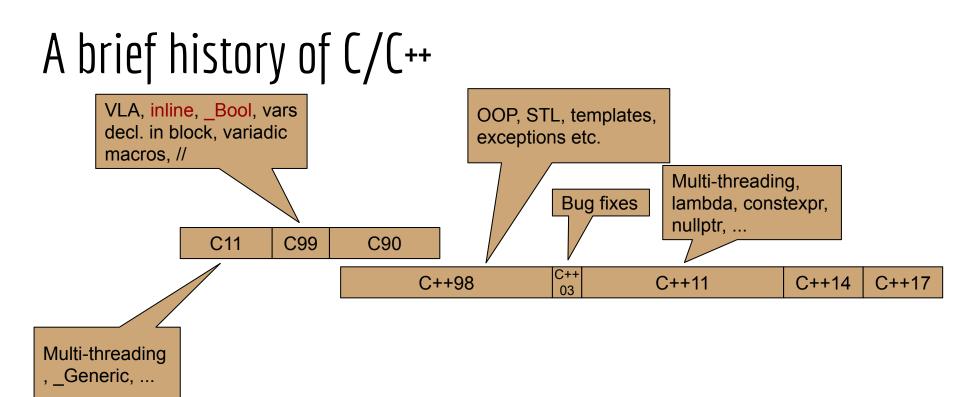


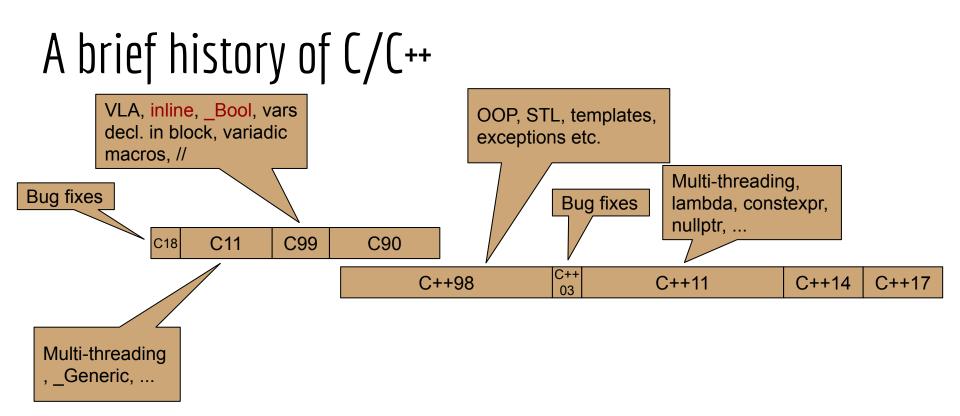


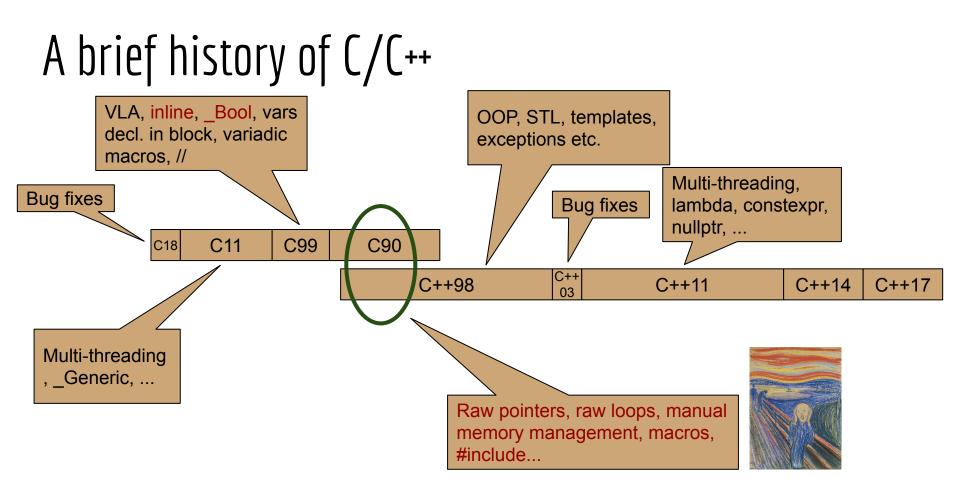


## A brief history of C/C++









## Going from C++ to C

- Some unfamiliar syntax
- Probably have to learn a lot of in-house libraries
- Less safety features references, RAII, stronger typing
- Poor man's encapsulation static is your friend!
- What's wrong with macros?!

# Going from C to C++ - Useful (?) Knowledge

- Pointers?
  - Deprecated from C++ on April 1st.
- Manual memory management?
  - Hell no! We use smart pointers, containers and RAII.
- Atomics for parallelism?
  - Only if we must. Tasks and parallel algorithms are preferable.
- Fine control of memory layout?
  - Sure. But we have more tools alignas, variant etc.

## Going from C to C++ - Missing Knowledge

- 00P
- Templates
- Standard Library
- Lambdas
- Move semantics
- constexpr
- Concepts, coroutines, modules, contracts...

#### Call for action - no more C/C++ silliness!

- A C programmer doesn't know more C++ than a Java programmer
- Can a C programmer become a C++ pro? Of course! But not immediately.
  - Same goes for the other way
- Spot a "C/C++"? Call out that silliness!
  - It's neither doing just to C nor to C++
- Oh Java and JavaScript are very unrelated
  - Mostly legacy branding and {}
  - Like C and C++

Course categories:

C / C++

C\C++ •

Technical Lead – Java, Python, C/C++, Go, Scala, Apache Open Source Stacks, Big Data – Ad Tech, Mobile Carrier Data

חברת השמה > דרושים הייטק > תוכנה

++C/C משרות ראש צוות

A general-purpose, high-level programming language multi-paradigm language supporting procedural prog generic programming and RTTI.

	ענוו דאסי לשוווי דאינוו ענוין
לפיתוח ב-C/C++	ראיון עבודה בחברת



There is no language called "C/C++". The phrase is usually used by people who don't have a clue about programming (e.g. HR personnel and poor managers).

www.stroustrup.com/bs\_faq.html#C-slash

Software Engineer (C/C++, ...)

---- • Tel Aviv, IL

Software Engineer - C/C++, Linux Austin, TX Full-time

#### Qualifications

 Extensive knowledge of C/C++ development using GNU using libraries such as Boost, OpenSSL, Curl 5 Reasons Why You Should Keep Learning C/C++

Introduction to C/C++

#### אבוא למדעי המחשב בשפת C/C++

Senior developer C/C++ Your profile: • Strong C/C++ knowledge