B.2 — Introduction to C++14

1 ALEX NOVEMBER 11, 2023

What is C++14?

On August 18, 2014, the <u>ISO (International Organization for Standardization)</u> (https://www.iso.org/home.html) approved a new version of C++, called C++14. Unlike C++11, which added a huge amount of new functionality, C++14 is a comparatively minor update, mainly featuring bug fixes and small improvements.

New improvements in C++14

For your interest, here's a list of the major improvements that C++14 adds. Note that this list is not comprehensive, but rather intended to highlight some of the key improvements of interest.

- Aggregate member initialization (13.5 -- Introduction to structs, members, and member selection)
- Binary literals (5.3 -- Numeral systems (decimal, binary, hexadecimal, and octal))
- [[deprecated]] attribute (no tutorial yet)
- Digit separators (5.3 -- Numeral systems (decimal, binary, hexadecimal, and octal))
- Function return type deduction (10.8 -- Type deduction for objects using the auto keyword)
- Generic lambdas (20.6 -- Introduction to lambdas (anonymous functions))
- Relaxed constexpr functions (<u>5.8 -- Constexpr and consteval functions</u>)
- Variable templates (no tutorial yet)
- std::make_unique (22.5 -- std::unique_ptr)

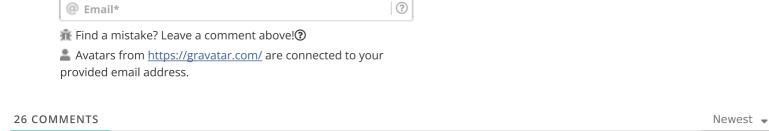


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