

# A comparative evaluation of the new C++ standard

December 2016

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type	60 ECTS
study program	computer science
planned date of completion	May 2018

## Short description

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The task is to describe and evaluate the new C++14 standard and compare its properties in comparison with older versions of C++ and potentially rival languages.

## Background and motivation

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C++14 [1] is a quite recent formulation of the widely used object-oriented programming language C++ [2]. It's a minor extension of the important C++11 standard, which is widely established and a major step forward compared to earlier C++-versions.

The thesis will investigate these modern version of the language focusing on various aspects.

- additional language features
- usability
- code complexity
- performance

Furthermore, a discussion of the forthcoming C++17 standard is planned.

**Keywords:** C++, programming languages, object-orientation, standards, comparison of programming languages

## References

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[1] C++. The C++ programming language. <https://isocpp.org/>, Dec. 2016.

[2] B. Stroustrup. *The C++ Programming Language*. Addison-Wesley, 1986.