

SORS: A short introduction to the aims and status of modern C++

Objectives

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Abstract: C++20 is here. How does it reflect the aims and ideals of C++? What are the major features of C++20? What is in the works for future standards? I will - necessarily briefly - touch upon type-safety, resource-safety, type deduction, modularity, and concurrency. After this introduction, the second half of the presentation will be a question and answer session.

Short bio: Bjarne Stroustrup is the designer and original implementer of C++ as well as the author of *The C++ Programming Language (4th Edition)* and *A Tour of C++ (2nd edition)*, *Programming: Principles and Practice using C++ (2nd Edition)*, and many popular and academic publications. Dr. Stroustrup is a Technical Fellow and Managing Director in the technology division of Morgan Stanley in New York City as well as a visiting professor at Columbia University. He is a member of the US National Academy of Engineering, and an IEEE, ACM, and CHM fellow. He is the recipient of the 2018 NAE Charles Stark Draper Prize for Engineering and the 2017 IET Faraday Medal. He did much of his most important work in Bell Labs. His research interests include distributed systems, design, programming techniques, software development tools, and programming languages. To make C++ a stable and up-to-date base for real-world software development, he has been a leading figure with the ISO C++ standards effort for 30 years. He holds a master's in Mathematics from Aarhus University and a PhD in Computer Science from Cambridge University, where he is an honorary fellow of Churchill College.

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Speakers

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