

# Bjarne Stroustrup

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## Education

**Ph.D. in Computer Science**, University of Cambridge, England, 1979

Ph.D. Thesis: *Communication and Control in Distributed Computer Systems*

Thesis advisor: David Wheeler

**Cand.Scient. in Mathematics with Computer Science**, Aarhus University, Denmark, 1975

Thesis advisor: Brian H. Mayoh

## Research Interests

Distributed Systems, Design, Programming techniques, Software development tools, and Programming Languages

## Professional Experience

**Professor**, Columbia University, New York, July 2022 – present

**Technical Fellow**, Morgan Stanley, New York, January 2019 – April 2022

**Managing Director**, Division of Technology and Data, Morgan Stanley, New York, January 2014 – April 2022

**Visiting Professor**, Columbia University, New York, January 2014 – July 2022

**Visiting Professor in the Computer Lab and Fellow of Churchill College**, Cambridge University, Spring 2012

**Visiting Professor in the Computer Science Department, Princeton University**, Fall 2011

**The College of Engineering Chair Professor in Computer Science**, Department of Computer Science, Texas A&M University, October 2002 – January 2014

**Department Head**, AT&T Laboratories – Research, Florham Park, New Jersey, July 1995 – October 2002

**Distinguished Member of Technical Staff**, AT&T Bell Laboratories, Murray Hill, NJ, June 1987 – July 1995

**Member of Technical Staff**, AT&T Bell Laboratories, Murray Hill, NJ, March 1979 – June 1987

## Honors & Awards

2019: Honorary doctor of University Carlos III in Madrid, Spain.

2018: The John Scott Legacy Medal and Premium from The Franklin Institute and the City Council of Philadelphia *to men and women whose inventions improved the comfort, welfare, and happiness of human kind in a significant way.*

2018: The Computer Pioneer Award from The IEEE Computer Society *For bringing object-oriented programming and generic programming to the mainstream with his design and implementation of the C++ programming language.*

2018: The Charles Stark Draper Prize from the US National Academy of Engineering. *For conceptualizing and developing the C++ programming language.*

2017: The Faraday Medal from the Institute of Engineering Technology. *For significant contributions to the history of computing, in particular pioneering the C++ programming language.*

2017: Honorary Fellow of Churchill College, University of Cambridge.

2015: Fellow of the Computer History Museum. *For his invention of the C++ programming language.*

2015: The Dahl-Nygaard senior prize from The European Organization for Object-Oriented Technologies. *For the design, implementation, and evolution of the C++ programming language.*

2013: Electronic Design Hall of Fame.

2013: Honorary Doctor of Computer Science from the National Research University, ITMO, St. Petersburg, Russia.

2013: The Golden Abacus Award from Upsilon Pi Epsilon.

2011: University Distinguished Professor at Texas A&M University (honorable title, bestowed “in perpetuity”).

2010: Honorary Professor in Object Oriented Programming Languages, Department of Computer Science, University of Aarhus.

2010: The University of Aarhus's Rigmor og Carl Holst-Knudsens Videnskapspris. The university's oldest and most prestigious honor for contributions to science by a person associated with the university.

2008: Dr. Dobb's Excellence in Programming award. *For advancing the craft of computer programming.*

2005: The William Procter Prize for Scientific Achievement from Sigma Xi (the scientific research society). *Presented to a scientist who has made an outstanding contribution to scientific research and has demonstrated an ability to communicate this research to scientists in other disciplines.*

2005: IEEE Fellow.

2004: Member of the Texas Academy of Medicine, Engineering, and Science.

2004: Member of the US National Academy of Engineering

2004: IEEE Computer Society's Computer Entrepreneur Award. *For pioneering the development and commercialization of industrial-strength, object-oriented programming technologies, and the profound changes they fostered in business and industry.*

2002: Honorary Professor at Xi'an Jiao Tong University.

1996: AT&T Fellow

1996: ACM Fellow

1995: Named one of "the 20 most influential people in the computer industry in the last 20 years," *BYTE* magazine

1993: AT&T Bell Laboratories Fellow

1993: ACM Grace Murray Hopper award *for his early work on C++*

1990: Named one of "America's twelve top young scientists," by *Fortune Magazine*

### **Selected Invited Presentations**

- WeAreDevelopers World Congress, Berlin, Keynote: The Design and Evolution of C++. 2022
- C++Con Keynote: C++20 – reaching for the aims of C++.
- C++Con 2019 keynote: C++20: C++ at 40.
- The Strachey Lecture, University of Oxford: *The Continuing Evolution of C++*. 2017.
- Qcon Shanghai 2017 keynote: *The future of programming and C++'s role in that*.
- CppCon 2017 keynote: *Learning and Teaching Modern C++*.
- Meeting C++ 2016 keynote: *What C++ is and what it will become*.
- TEDx Shanghai: *The Driving Force Behind C++*. 2016.
- CppCon 2105 keynote: *Writing Good C++14*. Bellevue, Washington.
- ECOOP 2015 keynote: *Object-Oriented Programming without Inheritance*. Prague, Czech Republic.
- Bombay IIT Techfest 2015 keynote: *C++ Style – A Touch of Class*. Mumbai, India.
- Lang.Next 2014: *What – if anything – have we learned from C++?* San Francisco, California.
- University of Cambridge Computer Laboratory's 75<sup>th</sup> anniversary: *C++11 Style – A Touch of Class*. 2012
- ETAPS 2012: *Foundations of C++*. Tallinn, Estonia.
- ACM Sigplan History of Programming Languages (HOPL-III) Invited presentation: *Evolving a language in and for the real world: C++ 1991-2006*. San Diego, California. 2007
- PACT'07 keynote: *Write Clean (Parallel) Code*. Brasov, Romania.
- Cambridge University 800<sup>th</sup> anniversary: *Evolving a language in and for the real world*. 2009.
- The First International Conference on Embedded Software and System, keynote: *Abstraction and the C++ machine model*. Zhejiang University, China. 2004
- LLNL; ASCI ITS Lecture: *Programming, Language, and Libraries*. 2004
- INRIA and Universite de Provence, Colloquium J. Morgenstern: *“Do General-purpose Languages Have a Future?”* 2003
- American Institute of Physics ACAT 2000; Keynote: *Speaking C++ as a Native*, 2001
- Software Development 2000; Keynote: *A New Language for a New Millennium*, 2000

- Embedded Systems Conference; Keynote: *C++ for Embedded Systems Programming*, 1999
- Free University, Amsterdam; CWI Soiree: *What is an Object and What Isn't?* 1999
- University of Illinois; Gillies Lecture: *Programming Languages - Why should we care?* 1996
- OOPSLA'95 Keynote: *Why C++ Isn't Just an Object-Oriented Programming Language*, 1995
- ACM Sigplan History of Programming Languages (HOPL-II) Invited presentation: *A History of C+: 1979-1991*. Cambridge, Massachusetts. 1993.
- Yale University, Alan J. Perlis Lecture: *Computer Languages and Their Future - Object-Oriented Programming and C++*, 1993.
- ECOOP'87 Keynote: *What is Object-Oriented Programming?* 1987.

### Professional Service & Activities

**ISO C++ Standards Committee Member**, working group chair. Representing AT&T, TAMU, and Morgan Stanley, representing the USA at the ISO level, 1990 – present

**Program Committee Member:** *USENIX COOTS 2001, ACM SIGPLAN OOPSLA 1988, 1989, 1990 ECCOPS 1987*

**Member of the Danish Research Academy Advisory Board**, 1995 – 1997

### Selected Interviews

- [A conversation with Bjarne Stroustrup](#). An interview of Bjarne by Lex Fridman from MIT. July 2019.
- [Interview 40 years of C++](#) by David Silver from Udacity. April 2019.
- An interview with iTuring: [Bjarne Stroustrup: A simple way of expressing an idea can be optimal in real-world situations. Chinese version](#). November 2016.
- By Aurelien Regat-Barrel: [Celebrate the 30th anniversary of TC++PL and the first commercial release of C++](#) October 2015.
- Paul McJones for the Computer History Museum's Oral history project: *Bjarne Stroustrup oral history: 2015 fellow*. <http://www.computerhistory.org/collections/catalog/102740024>. February 2015.
- An interview for the communication of the CCF (China Computer Federation) [In Chinese](#) and the [English original](#). November 2014.
- Richard Morris for [Simple Talk: Bjarne Stroustrup, and Programmers With Class](#). August 2014.
- [An interview by William Wong](#) for Electronic Design Magazine: *about C++ and its development*. 2014
- Video interview with Charles Severance for [IEEE Computer](#) about my IEEE Computer Magazine paper [Software Development for Infrastructure](#).
- Interview with [Debasish Jana](#) for [The Computer Society of India](#):
  - [Part 1: Paradigm & Prilosophy](#), June 2011.
  - [Part 2: Evolution of C++ towards C++0x](#), July 2011.
  - [Part 3: C++0x Technicalities and Intricacies](#), August 2011.
- Interview with Lukasz Lopuszanski for [The Software Developer's Journal](#): [About C++ and... few more things. Version](#) where the typesetters haven't introduced bugs. March 2011.

- Interview by Michael Calore for Wired Magazine: [Oct. 14, 1985: C++ Adds to Programming](#) celebrating C++'s 25th anniversary as a commercial language. [Persian translation](#) by Saeed Amrollahi Boyouki.
- Interview for 3DNEWS: [Bjarne Stroustrup: physicist and lyricist](#) (in Russian). Here are [The English bits](#). October 2010.
- Bjarne Stroustrup: C++. Chapter in Federico Biancuzzi and Shane Warden: [C++](#) in "Masterminds of Programming -- conversations with the creators of major programming languages". O'Reilly. ISBN 978-0-596-51517-1. March 2009. (Winner of a Jolt award).
- A "geek of the week" interview on [quality of software, education, and C++](#) for Simple-talk by Richard Morris. December 2008.
- An interview [on C++0x, the education of programmers, and more](#) for [Dr. Dobb's Magazine](#) by James Buchanan. February 2008.
- An [interview](#) focused on innovation, and a [follow up](#) by Roberto Zicari for [ODBMS.org](#). November 2007.
- An interview for [MIT Technical Review](#) by [Jason Pontin](#): [Trouble with programming](#) and [More trouble with programming](#). This is a nicely edited version of my somewhat longer and more detailed [original text](#). December 2006.
- Article by Pierre Vandeginste based on interview for INRIA: [Bjarne Stroustrup: le père de C++, un langage qui a de la classe](#). June 2004 (in French)
- Bill Venners for Artima.com: [The C++ Style Sweet Spot](#), [Modern C++ Style](#), [Abstraction and Efficiency](#), and [Elegance and other design ideals](#). September 2003 – February 2004.
- [Interview by Quinn Tyler Jackson](#) for [the Pi Society](#). November 2000.
- [Interview of Dennis Ritchie, Bjarne Stroustrup, and James Gosling by Herb Sutter](#) for the Java Report, 5(7), and the C++ Report, 12(7). July/August 2000.
- S. Hamilton: [The Real Stroustrup Interview](#). IEEE Computer Magazine, June 1998. Posted with permission from IEEE. ([pdf version](#)).
- [Interview by Andrew P. Madden](#) from Red Herring magazine, June 1998.
- [Interview by Chuck Allison](#) from the C/C++ Journal, 1996.
- [Interview by Judy Tolliver](#) for a University of Illinois CS department alumni magazine from March 1996.

For a more comprehensive list, see <http://www.stroustrup.com/interviews.html>

### **Publications** (lightly annotated)

1. B. Stroustrup: [A Tour of C++ \(3rd Edition\)](#). Addison-Wesley. ISBN-10: 0-13-681648-7 ISBN-13: 978-0-13-681648-5 September 2022.
2. B. Stroustrup: [Type-and-resource safety in modern C++](#). SG22/WG21 document. P2410r0. 2021-07-12.
3. [C++ -- an Invisible Foundation of Everything](#). ACCU Overload No 161. February 2021.
4. B. Stroustrup: Thriving in a crowded and changing world: C++ 2006-2020. ACM SIGPLAN History of Programming Languages conference. June 2020. A detailed description of the evolution of C++ over the last 15 years.
5. Bjarne Stroustrup: [A Tour of C++ \(second edition\)](#). Addison Wesley. ISBN 978-0-13-499783-4. July 2018.
6. B. Stroustrup: [Concepts: The Future of Generic Programming \(or "How to design good concepts and use them well"\)](#)". Isocpp.org. January 2017.
7. B. Stroustrup, H. Sutter, and G. Dos Reis: [A brief introduction to C++'s model for type- and resource-safety](#). Isocpp.org. October 2015. Eliminating dangling pointers, memory corruption, and resource leaks without overheads.

8. J. Daniel Garcia and B. Stroustrup: [Improving performance and maintainability through refactoring in C++11](#). Isocpp.org. August 2015. An example of slightly improving performance of a parallel application by simplifying and increasing the level of abstraction.
9. B. Stroustrup: [Five popular myths about C++](#) [French translation](#). ISOcpp.org. December 2014.
10. B. Stroustrup: [Programming -- Principles and Practice Using C++ \(Second Edition\)](#). May 2014. Addison-Wesley. ISBN 978-0321992789. PPP2 got a rare [Jolt Productivity Award](#), from Dr. Dobs. Russian translation in progress. Williams Publishing.
11. Yuriy Solodkyy, Gabriel Dos Reis and Bjarne Stroustrup: [Open Pattern Matching for C++](#). ACM GPCE'13. A general and efficient portable pattern-matching library.
12. Bjarne Stroustrup: [A Tour of C++](#). Addison Wesley. ISBN 978-0321958310. September 2013. Italian translation. Pearson Italia. ISBN 9799965-184493. 2014. German translation. Hanser Fachbuch. 9783446-439627. 2015. Chinese translation (simplified). China Machine Press. ISBN 9-787111-498124. 2015.
13. Bjarne Stroustrup: [The C++ Programming Language \(4th Edition\)](#). Addison-Wesley. ISBN 978-0321563842. May 2013. [German Translation](#). Hanser Fachbuch. 2015. ISBN 978-3-446-43981-8. Japanese Translation. SB Creative. 2015.
14. Y. Solodkyy, G. Dos Reis, and B. Stroustrup: [Open and Efficient Type Switch for C++](#). Proc. OOPSLA'12. Non-member virtual functions and functions with multiple dynamic arguments.
15. A. Kumar, A. Sutton, and B Stroustrup: [Rejuvenating Macros as C++11 Declarations](#). Proc. 28th IEEE International Conference on Software Maintenance. September 2012. A tool for removing macros.
16. Bjarne Stroustrup: [Foundations of C++](#). Proc. 22nd European Symposium on Programming (ESOP). Springer LNCS 7211. April 2012.
17. Bjarne Stroustrup: [Software Development for Infrastructure](#). Computer, vol. 45, no. 1, pp. 47-58, Jan. 2012, doi:10.1109/MC.2011.353. [A video interview](#) about that paper and [video of a talk on a very similar topic](#) (That's a 90 minute talk incl. Q&A).
18. Gabriel Dos Reis and Bjarne Stroustrup: [A Principled, Complete, and Efficient Representation of C++](#). Journal of Mathematics in Computer Science Volume 5, Issue 3 (2011), Page 335-356 [doi:10.1007/s11786-011-0094-1](#). Special issue on Polynomial System Solving, System and Control, and Software Science.
19. Andrew Sutton and Bjarne Stroustrup: [Design of Concept Libraries for C++](#). Proc. SLE 2011 (International Conference on Software Language Engineering). July 2011. What makes good concepts (constraints on template arguments)?
20. Peter Pirkelbauer, Damian Dechev, and Bjarne Stroustrup: [Support for the Evolution of C++ Generic Functions](#). 3rd International Conference on Software language Engineering. October 2010. Inferring concepts from generic code.
21. Damian Dechev, Peter Pirkelbauer, and Bjarne Stroustrup: [Understanding and Effectively Preventing the ABA Problem in Descriptor-based Lock-free Designs](#). 13th IEEE Computer Society ISORC 2010 Symposium. May 2010.
22. Gabriel Dos Reis and Bjarne Stroustrup: [General Constant Expressions for System Programming Languages](#). SAC-2010. The 25th ACM Symposium On Applied Computing. March 2010. The paper that introduce compile-time evaluation of functions in C++.
23. Peter Pierkelbauer, Damian Dechev, and Bjarne Stroustrup: [Source Code Rejuvenation is not Refactoring](#). SofSem 2010. 36th international conference on current trends in theory and practice of Computer Science. January 2010.
24. Bjarne Stroustrup: [What should we teach software developers? Why?](#) CACM. January 2010. [Japanese translation](#) by Kazutoshi Satoda. [Spanish translation](#) by Eduardo Diaz. [Chinese translation](#).
25. Gabriel Dos Reis, and Bjarne Stroustrup: [A Principled, Complete, and Efficient Representation of C++](#). Proc. Joint Conference of ASCM 2009 and MACIS 2009. COE Lecture Note Vol. 22,

- pp. 407-421; December 2009. The smallest and fastest representation of complete C++ source code as typed ASTs.
26. Dan Tsafir, Robert W. Wisniewski, David F. Bacon, and Bjarne Stroustrup: [Minimizing Dependencies within Generic Classes for Faster and Smaller Programs](#). ACM OOPSLA'09. October 2009.
  27. Damian Dechev and Bjarne Stroustrup: [Scalable Non-blocking Concurrent Objects for Mission Critical Code](#). ACM OOPSLA'09. October 2009.
  28. Bjarne Stroustrup: [What is C++0x?](#). CVu. Vol 21, Issues 4 and 5. 2009.
  29. Bjarne Stroustrup: [The C++0x "Remove Concepts" Decision](#). Dr.Dobb's Journal. July 2009. Republished with permission in Overload Journal, Vol 92. August 2009.
  30. Damian Dechev and Bjarne Stroustrup: [Reliable and Efficient Concurrent Synchronization for Embedded Real-Time Software](#). Proc. 3rd IEEE International Conference on Space Mission Challenges for Information Technology (IEEE SMC-IT). July 2009.
  31. Peter Pirkelbauer, Yuriy Solodkyy, Bjarne Stroustrup: [Design and Evaluation of C++ Open Multi-Methods](#). In Science of Computer Programming (2009). Elsevier Journal. June 2009. doi:10.1016/j.scico.2009.06.002.
  32. Peter Pirkelbauer, Sean Parent, Mat Marcus, Bjarne Stroustrup: *Dynamic Algorithm Selection for Runtime Concepts*. In Science of Computer Programming (2009). Elsevier Journal. June 2009. doi:10.1016/j.scico.2009.04.002.
  33. Sean Parent and Bjarne Stroustrup: Appendix B: Programming Language. In Alexander Stepanov and Paul McJones: [Elements of programming](#). Addison-Wesley. ISBN 978-0321635372. June 2009.
  34. Bjarne Stroustrup: [Programming in an undergraduate CS curriculum](#). WCCCE'09. May 2009.
  35. Damian Dechev, Nicolas Rouquette, Peter Pirkelbauer, and Bjarne Stroustrup: [Programming and Validation Techniques for Reliable Goal-driven Autonomic Software](#). Book Chapter in Autonomic Communication, Vasilakos, A.; Parashar, M.; Karnouskos, S.; Pedrycz, W. (Eds.), ISBN: 978-0-387-09752-7, Springer. May 2009.
  36. Damian Dechev, Peter Pirkelbauer, Nicolas Rouquette, and Bjarne Stroustrup: [Semantically Enhanced Containers for Concurrent Real-Time Systems](#). Proc. 16th Annual IEEE International Conference and Workshop on the Engineering of Computer Based Systems (IEEE ECBS). April 2009.
  37. Damian Dechev and Bjarne Stroustrup: [Model-Based Product-Oriented Certification](#). Proc. of 16th Annual IEEE International Conference and Workshop on the Engineering of Computer Based Systems (IEEE ECBS). April 2009.
  38. Bjarne Stroustrup: [Programming -- Principles and Practice Using C++](#). Addison-Wesley. ISBN 978-0321543721. December 2008.
  39. Damian Dechev, Rabi Mahapatra, and Bjarne Stroustrup: [Practical and Verifiable C++ Dynamic Cast for Hard Real-Time Systems](#). Journal of Computing Science and Engineering (JCSE), Vol. 2, No. 4, Special Issue on Real-Time Distributed Computing and Ubiquitous Computing in Memory of Professor Moon Hae Kim. December 2008.
  40. Damian Dechev, Nicolas Rouquette, Peter Pirkelbauer, and Bjarne Stroustrup: [Verification and Semantic Parallelization of Goal-driven Autonomous Software](#). Proc. ACM Autonomics 2008. September 2008.
  41. Damian Dechev, Rabi Maharapatra, Bjarne Stroustrup, and David Wagner: [C++ dynamic cast in autonomous space systems](#). IEEE ISORC 2008. May 2008.
  42. Howard E. Hinnant, Bjarne Stroustrup, and Broniek Kozicki: [A Brief Introduction to Rvalue References](#) The C++ Source (a web publication). March 10, 2008.
  43. Peter Pirkelbauer, Sean Parent, Mat Marcus, and Bjarne Stroustrup: [Runtime Concepts for the C++ Standard Template Library](#). Proc. SAC'08, March 2008.

44. Peter Pirkelbauer, Yuriy Solodkyy, and Bjarne Stroustrup: [Open Multi-Methods for C++](#). Proc. ACM 6th International Conference on Generative Programming and Component Engineering (GPCE). October 2007.
45. Steve Cook, Scott Pike, and Bjarne Stroustrup: "An Early-Reply Based Framework: Reliable Concurrency that Is Verifiable". IEEE HASE'07. November 2007.
46. Luke Wagner, Jaakko Jarvi, and Bjarne Stroustrup: [Using ownership types to support aliasing boundaries](#). IWACO'07 (ECOOP workshop: International Workshop on Aliasing, Confinement and Ownership in object-oriented programming). July 2007.
47. Bjarne Stroustrup: [Evolving a language in and for the real world: C++ 1991-2006](#). ACM HOPL-III. June 2007. (incl. slides and videos).
48. Damian Detchef, Peter Pierkelbauer, and Bjarne Stroustrup: [Lock-free dynamically resizable arrays](#). Proc OPODIS'06. December 2006.
49. Douglas Gregor, Jaakko Jarvi, Jeremy Siek, Bjarne Stroustrup, Gabriel Dos Reis, Andrew Lumsdaine: [Concepts: Linguistic Support for Generic Programming in C++](#). OOPSLA'06, October 2006.
50. Gabriel Dos Reis and Bjarne Stroustrup: [Specifying C++ Concepts](#). POPL06. January 2006.
51. Bjarne Stroustrup: [A brief look at C++0x](#). "Modern C++ design and programming" conference. Shanghai, November 2005. Also Artima, January 2006.
52. Bjarne Stroustrup and Gabriel Dos Reis: [Supporting SELL for High-Performance Computing](#). LCPC05. October 2005.
53. Bjarne Stroustrup: [A rationale for semantically enhanced library languages](#). LCSD05. October 2005.
54. Michael Gibbs and Bjarne Stroustrup: [Fast Dynamic Casting](#). Software - Practice & Experience. Vol 35, Issue 12. 2005. Short constant time dynamic type determination.
55. B. Stroustrup: [The design of C++0x](#). C/C++ Users Journal. May 2005.
56. B. Stroustrup: [C++ in 2005](#). Extended foreword to Japanese translation of "The Design and Evolution of C++". January 2005.
57. B. Stroustrup: [Abstraction and the C++ machine model](#). Proc. ICES'04. December 2004. Also in Springer LNCS 3605. Embedded software and systems. 2005.
58. Matt Austern, Bjarne Stroustrup, Mikkel Thorup, and John Wilkinson: *Untangling the Balancing and Searching of Balanced Binary Search Trees*. *Software - Practice & Experience*. Vol. 33, Issue13, October 2003.
59. B. Stroustrup: *Serving the C++ Community*. Foreword to the published version of the C++ Standard (ISO/IEC 14882:2002). Wiley 2003. ISBN 0 470 84674-7.
60. B. Stroustrup: *Abstraction, libraries, and efficiency in C++*. *Dr. Dobb's Journal China*. Vol. 1, no 1. August 2003.
61. B. Stroustrup: *C and C++: Case Studies in Compatibility*. *The C/C++ Users Journal*. September 2002.
62. B. Stroustrup: *C and C++: A Case for Compatibility*. *The C/C++ Users Journal*. August 2002.
63. B. Stroustrup: *C and C++: Siblings*. *The C/C++ Users Journal*. July 2002.
64. B. Stroustrup: *Sibling rivalry: C and C++*. AT&T Labs - Research Technical Report. TD-54MQZY. January 2002.
65. B. Stroustrup: *C++ Programming Styles and Libraries*. InformIt.com. January 2002.
66. B. Stroustrup, A. Koenig, and B. Moo: *The C++ Programming Language*. Encyclopedia of Software Engineering. Second edition. Wiley. 2001.
67. B. Stroustrup: *Speaking C++ as a Native*. Proc. ACAT 2000. Also in "Advanced Computing and Analysis Techniques in Physics Research", editors: P. C. Bhat and M. Kasemann. American Institute of Physics. AIP Conference Proceedings Volume 583. ISBN 0-7354-0023-7. August 2001.
68. B. Stroustrup: *Programming with Exceptions*. InformIt.com. April 2001.



69. B. Stroustrup: *Exception Safety: Concepts and Techniques*. In "Advances in Exception Handling Techniques", editors: Christopher Dony, Joergen Lindskov Knudsen, Alexander Romanovsky, and Anand Tripathi. Springer Verlag Lecture Notes in Computer Science, LNCS-2022. ISSN 0302-9743. ISBN 3-540-41952-7. April 2001.
70. B. Stroustrup and Tim Lindholm: *The Future of OOP*. *The Future of Software Magazine*. Winter 2000/2001, Vol. 1, no. 1.
71. B. Stroustrup: *C++: A Brief History*. Encyclopedia of Computer Science, 4th ed. (Anthony Ralston, Edwin D. Reilly, David Hemmendinger, editors) Grove's Dictionaries Inc. New York. 2000.
72. B. Stroustrup: *The C++ Programming Language (Special Edition)*. Addison Wesley. Reading Mass. USA. February 2000.
73. B. Stroustrup: *Getting from the past to the future*. The C++ Report. pp 22-23. Vol. 11/No 10. November-December 1999.
74. B. Stroustrup: *Learning Standard C++ as a New Language*. *C/C++ Users Journal*. pp 43-54. May 1999.
75. B. Stroustrup: *Why no single programming language can solve every need*. *Red Herring Magazine*. April 1999.
76. B. Stroustrup: *An Overview of the C++ Programming Language*. Handbook of Object Technology (Editor: Saba Zamir). CRC Press LLC, Boca Raton, Florida. 1999.
77. B. Stroustrup: *A History of C++*. In "The Handbook of Programming Languages" (Editor: Peter Salus). Macmillan Technical Publishing. Indianapolis. 1998.
78. B. Stroustrup: *Standard C++ for Embedded Systems Programming*. Embedded Systems Development. March 1998.
79. B. Stroustrup: *Generalizing Overloading for C++2000*. *Overload*, Issue 25. April 1, 1998.
80. B. Stroustrup: *The C++ Programming Language (3rd Edition)*. Addison-Wesley Longman. Reading Mass. USA. 1997.
81. Peter Trott: *Programming Languages: Past Present, and Future* (sixteen prominent computer scientists assess our field). *ACM Sigplan Notices*. Vol. 32, No 1. January 1997.
82. B. Stroustrup: *A perspective on Concurrency and C++*. In Wilson & Lu (Editors): *Parallel Programming using C++*. The MIT Press. 1996.
83. B. Stroustrup: *Language-technical Aspects of Reuse*. Proc. 4th International Conference on Software Reuse, pp 11-19. April 1996.
84. B. Stroustrup: *A Brief Look at C++*. *IEEE AI Expert*, Intelligent Systems and their Applications, pp 13-15. February 1996.
85. R. Koenig and B. Stroustrup: *Foundations for Native C++ Styles*. *Software Practice and Experience*. Vol. 25, special issue S4. December 1995.
86. Stroustrup: *A Perspective on ISO C++*. The C++ Report. Vol. 7/No 8, pp 22-28. October 1995. Also in "C++ Gems" (editor: Stan Lippman) *SIGS Publications*, 1996.
87. Stroustrup: *Why C++ isn't just an Object-Oriented Programming Language*. Addendum to OOPSLA'95 Proceedings. *OOPS Messenger*, Vol. 6 no 4, pp 1-13. October 1995.
88. B. Stroustrup: *Making a vector fit for a Standard*. The C++ Report. October 1994.
89. B. Stroustrup: *The Design and Evolution of C++*. Addison Wesley, March 1994.
90. B. Stroustrup, A. Koenig, and B. Moo: *The C++ Programming Language*. Encyclopedia of Software Engineering, Wiley, February 1994.
91. B. Stroustrup: *The Simula Programming Language*. Encyclopedia of Software Engineering, Wiley, February 1994.
92. B. Stroustrup: *On Learning C++*. Martin Heller: *Advanced Win32 Programming*, Wiley, July 1993.
93. B. Stroustrup: *Why Consider Language Extensions?* Proc. European C++ Users' Group Meeting, Munich. July 1993.
94. B. Stroustrup: *Library Design Using C++*. The C++ Report. Vol. 5 no 5, pp 14-22. June 1993.

95. B. Stroustrup: *A History of C++: 1979-1991*. Proc ACM History of Programming Languages conference (HOPL-2). *ACM Sigplan Notices*. Vol. 28 No 3, pp 271-298. March 1993.  
Documenting the design and early evolution of C++.
96. B. Stroustrup: *We're not in Kansas Anymore*. The C++ Report "Moving from C to C++" supplement. *SIGS Publications*. August 1992.
97. B. Stroustrup: *Tracing the roots of C++*. Silver Anniversary Supplement. *SIGS Publications*. August 1992.
98. B. Stroustrup D. Lenkov: *Run-Time Type Identification for C++ (Revised)*. Proceeding of the USENIX C++ Conference. August 1992.
99. B. Stroustrup, Et. al.: *How to Write a C++ Language Extension Proposal*. The C++ Report, pp 40-47. May 1992.
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