Bio

Donald Ervin Knuth is an American computer scientist, mathematician, and Professor Emeritus at Stanford University.

He is the author of the multi-volume work The Art of Computer Programming and has been called the "father" of the analysis of algorithms. He contributed to the development of the rigorous analysis of the computational complexity of algorithms and systematized formal mathematical techniques for it. In the process he also popularized the asymptotic notation. In addition to fundamental contributions in several branches of theoretical computer science, Knuth is the creator of the TeX computer typesetting system, the related METAFONT font definition language and rendering system, and the Computer Modern family of typefaces.

As a writer and scholar,[4] Knuth created the WEB and CWEB computer programming systems designed to encourage and facilitate literate programming, and designed the MIX/MMIX instruction set architectures. As a member of the academic and scientific community, Knuth is strongly opposed to the policy of granting software patents. He has expressed his disagreement directly to the patent offices of the United States and Europe. (via Wikipedia)

ACADEMIC APPOINTMENTS
• Professor Emeritus, Computer Science

HONORS AND AWARDS
• Grace Murray Hopper Award, ACM (1971)
• Member, American Academy of Arts and Sciences (1973)
• Turing Award, ACM (1974)
• Lester R Ford Award, Mathematical Association of America (1975)
• Member, National Academy of Sciences (1975)
• Distinguished Alumni Award, California Institute of Technology (1978)
• National Medal of Science, President Carter (1979)
• Distinguished Fellow, British Computer Society (1980)
• Wallace McDowell Award, IEEE Computer Society (1980)
• Member, National Academy of Engineering (1981)
• Priestley Award, Dickinson College (1981)
• Honorary Member, IEEE (1982)
• Golden Plate Award, American Academy of Achievement (1985)
• SIGCSE Award (Computer Science Education), ACM (1986)
• Software Systems Award, ACM (1986)
• Steele Prize for Exposition, American Mathematical Society (1986)
• New York Academy of Sciences Award, New York Academy of Sciences (1987)
• Franklin Medal, Franklin Institute (1988)
• Gold Medal Award, Case Alumni Association (1990)
• Foreign Associate, Académie des Sciences, Paris (1992)
• Foreign Member, Norwegian Academy of Sciences (1993)
• Lester R Ford Award, Mathematical Association of America (1993)
• Adelsköld Medal, Royal Swedish Academy of Sciences (1994)
• Fellow, ACM (1994)
• Harvey Prize, Technion (1995)
• Kyoto Prize, Inamori Foundation (1996)
• Fellow, Computer History Museum (1998)
• Foreign Member, Royal Society of London (2003)
• Honorary Fellow, Magdalen College, Oxford (2005)
• Foreign Member, Russian Academy of Sciences (2008)
• Fellow, SIAM (2009)
• Frontiers of Knowledge Award, BBVA Foundation (2010)
• Katayanagi Prize, Carnegie-Mellon University (2010)
• ABACUS Award, Upsilon Pi Upsilon (2011)
• Faraday Medal, IET (2011)
• Hero Award, Stanford University School of Engineering (2011)
• Member, American Philosophical Society (2012)
• Platinum Gold Medal for Computer Science Education, ETH Zürich (2012)
• Fellow, American Mathematical Society (2013)
• Peter Karow Award, ATypI (2013)
• Honorary Member, London Mathematical Society (2015)
• Trotter Prize, Texas A&M University (2018)

PROFESSIONAL EDUCATION
• PhD, California Institute of Technology, Mathematics (1963)

PATENTS


LINKS


Publications

PUBLICATIONS

• Selected papers on fun and games
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  CSLI Publications.2011

• Combinatorial algorithms, part 1 The art of computer programming
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• Fundamental Algorithms The art of computer programming
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• Concrete Mathematics: A foundation for computer science
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• AXIOMS AND HULLS LECTURE NOTES IN COMPUTER SCIENCE
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- **LITERATE PROGRAMMING** COMPUTER JOURNAL
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- **The TeXbook** Computers & Typesetting
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- **THE CONCEPT OF A META-FONT** VISIBLE LANGUAGE
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- **BREAKING PARAGRAPHS INTO LINES** SOFTWARE-PRACTICE & EXPERIENCE
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- **MATHEMATICAL TYPOGRAPHY** BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY
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  Knuth, D. E., Shustek, L.
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  Addison-Wesley.1986; D

- TeX: The Program Computers & Typesetting
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  Addison-Wesley.1986; B

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