

Andrew S. Tanenbaum



Born:	March 16, 1944 (age 71) New York City, United States
Residence:	Amsterdam, Netherlands
Nationality:	American
Fields:	Distributed computing, Operating systems
Alma mater:	Massachusetts Institute of Technology University of California, Berkeley
Thesis:	A Study of the Five Minute Oscillations, Supergranulation, and Related Phenomena in the Solar Atmosphere
Doctoral advisor:	John M. Wilcox
Doctoral students:	Tanenbaum has had a number of Ph.D. students who themselves have gone on to become widely known computer science researchers. These include: <ul style="list-style-type: none">• Henri Bal, a professor at the Vrije Universiteit in Amsterdam• Frans Kaashoek, a professor at MIT• Sape Mullender, a researcher at Bell Labs• Robbert van Renesse, a professor at Cornell University• Leendert van Doorn, a fellow at the AMD Corporation• Werner Vogels, the Chief Technology Officer at Amazon.com
Known for:	<ul style="list-style-type: none">• MINIX• Microkernels• Electoral-vote.com
Details:	<p>He received his bachelor of Science degree in Physics from MIT in 1965 and his Ph.D. degree in physics from the University of California, Berkeley in 1971. Tanenbaum also served as a lobbyist for the Sierra Club.</p> <p>He moved to the Netherlands to live with his wife, who is Dutch, but he retains his United States citizenship. He teaches courses about Computer Organization and Operating Systems and supervises the work of Ph.D. candidates at the VU University Amsterdam.</p>
Books:	<ul style="list-style-type: none">• Computer Networks, co-authored with David J. Wetherall (1st ed. 1981, 2nd ed. 1994, 3rd ed. 1996, 4th ed. 2002, 5th ed. 2010)• Operating Systems: Design and Implementation, co-authored with Albert Woodhull• Modern Operating Systems• Distributed Operating Systems• Structured Computer Organization• Distributed Systems: Principles and Paradigms, co-authored with Maarten van Steen

Review:	<p>His book, Operating Systems: Design and Implementation and MINIX were Linus Torvalds' inspiration for the Linux kernel. In his autobiography Just for Fun, Torvalds describes it as "the book that launched me to new heights".</p> <p>His books have been translated into many languages including Arabic, Basque, Bulgarian, Chinese, Dutch, French, German, Greek, Hebrew, Hungarian, Italian, Japanese, Korean, Macedonian, Mexican Spanish, Persian, Polish, Portuguese, Romanian, Russian, Serbian, and Spanish. They have appeared in over 175 editions and are used at universities around the world.</p>
Work Profile:	<p>Tanenbaum was one of the cofounders and first Dean of the Advanced School for Computing and Imaging (ASCI). This school initially consisted of nearly 200 faculty members and Ph.D. students from the Vrije Universiteit, University of Amsterdam, Delft University of Technology, and Leiden University. They were especially working on problems in advanced computer systems such as parallel computing and image analysis and processing.</p> <p>Tanenbaum remained dean for 12 years, until 2005, when he was awarded an Academy Professorship by the Royal Netherlands Academy of Arts and Sciences, at which time he became a full-time research professor. ASCI has since grown to include researchers from nearly a dozen universities in The Netherlands, Belgium, and France. ASCI offers Ph.D. level courses, has an annual conference, and runs various workshops every year.</p>
Projects:	<ul style="list-style-type: none"> • Amsterdam Compiler Kit • MINIX • Amoeba • Globe • Mansion • Orca • Paramecium • RFID Guardian • Turtle F2F • Electoral-vote.com
Tanenbaum-Torvalds debate	<p>The Tanenbaum-Torvalds debate was a debate between Andrew S. Tanenbaum and Linus Torvalds, regarding the Linux kernel and kernel architecture in general. Tanenbaum began the debate in 1992 on the Usenet discussion group comp.os.minix, arguing that microkernels are superior to monolithic kernels and therefore Linux was, even in 1992, obsolete. Other hackers such as David S. Miller and Theodore Ts'o joined the debate</p> <p>Since the criticism was posted in a public newsgroup, Torvalds was able to respond to it directly. He did so a day later, arguing that MINIX has inherent design flaws (naming the lack of multithreading as a specific example), while acknowledging that he finds the microkernel kernel design to be superior "from a theoretical and aesthetical" point of view. He also claimed that since he was developing the Linux kernel in his spare time and giving it away for free (Tanenbaum's MINIX was not free at that time), Tanenbaum should not object to his efforts.</p> <p>Read More: https://en.wikipedia.org/wiki/Tanenbaum%E2%80%93Torvalds_debate</p>
Awards:	<ul style="list-style-type: none"> • Fellow of the ACM

	<ul style="list-style-type: none"> • Fellow of the IEEE • Member of the Royal Netherlands Academy of Arts and Sciences (1994) • Eurosys Lifetime Achievement Award, 2015 • Honorary doctorate from Petru Maior University, Targu Mures, Romania, 2011 • Winner of the TAA McGuffey award for classic textbooks for Modern Operating Systems, 2010 • Coauthor of the Best Paper Award at the LADC Conference, 2009 • Winner of a 2.5 million euro European Research Council Advanced Grant, 2008 • USENIX Flame Award 2008 for his many contributions to systems design and to openness both in discussion and in source • Honorary doctorate from Polytechnic University of Bucharest, Romania • Coauthor of the Best Paper Award at the Real-Time and Network Systems Conf., 2008 • Winner of the 2007 IEEE James H. Mulligan, Jr. Education Medal • Coauthor of the Best Paper Award at the USENIX LISA Conf., 2006 • Coauthor of the Best Paper for High Impact at the IEEE Percom Conf., 2006 • Academy Professor, 2004 • Winner of the 2003 TAA McGuffey award for classic textbooks for Computer Networks • Winner of the 2002 TAA Texty Award for new textbooks • Winner of the 1997 ACM SIGCSE for contributions to computer science education • Winner of the 1994 ACM Karl V. Karlstrom Outstanding Educator Award • Coauthor of the 1984 ACM SOSP Distinguished Paper Award
Source of Information:	https://en.wikipedia.org/wiki/Andrew_S._Tanenbaum http://www.cs.vu.nl/~ast/ https://en.wikipedia.org/wiki/Tanenbaum%E2%80%93Torvalds_debate http://www.oreilly.com/openbook/opensource/book/appa.html