



Guide to the Adele Goldberg papers

Creator: Adele Goldberg

Dates: 1973-2010, bulk 1973-1998

Extent: 15.209 linear feet, 12 record cartons, 1 half manuscript box

Collection number: X5774.2010

Catalog number: 102733960

Collection processed by: Bo Doub and Kim Hayden, 2015

Finding aid prepared by: Bo Doub, Kim Hayden, and Sara Chabino Lott, 2015

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Abstract

The Adele Goldberg papers consist of Goldberg's working files related to the development and licensing of Smalltalk, a programming language she co-developed at Xerox PARC, plus periodicals, books, manuals, conference material, and reports related to object-oriented programming and other computer science topics Goldberg was interested or involved in. The collection also contains videotapes of some of Goldberg's public talks. Records date from 1973 to 2010, with the bulk of material from 1973 to 1998.

Administrative Information

Access Restrictions

The collection is open for research.

Publication Rights

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Languages

The collection is primarily in English, with a small amount of material in Japanese and French.

Preferred Citation

[Identification of Item], [Date], Adele Goldberg papers, Lot X5774.2010, Box [#], Folder [#], Catalog [#], Computer History Museum.

Immediate Source of Acquisition

Gift of Adele Goldberg, 2009.

Repository

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Biographical/Historical Note

Adele Goldberg was born July 7, 1945, in Cleveland, Ohio. She received a BA in mathematics from the University of Michigan in Ann Arbor and a master's in information science from the University of Chicago. In 1969, Goldberg began studying for her PhD in information science at Stanford University as a visiting University of Chicago student; she then became a research associate at Stanford while working on her dissertation. She earned her PhD from the University of Chicago in 1973.

After receiving her PhD, Goldberg went to work at Xerox Palo Alto Research Center (Xerox PARC) as a laboratory and research associate, and in 1979 she became the manager of its System Concepts Laboratory. At Xerox PARC, Goldberg was a co-creator of the highly influential programming language Smalltalk-80, along with Alan Kay, Dan Ingalls, and other designers. The first object-oriented programming language, Smalltalk introduced many of the characteristics seen in personal computers today, including the graphical user interface, overlapping windows, point-and-click menus, dragging and dropping, and icons. Goldberg wrote much of the documentation for Smalltalk-80, including the books *Smalltalk-80: The Language*

and Its Implementation (1983), *Smalltalk-80: the Interactive Programming Environment* (1984), and *Smalltalk-80: The Language* (1989), co-written with David Robson and considered the definitive books on the subject.

From 1984 to 1986, Goldberg was the president of the Association for Computing Machinery (ACM). In 1988, she co-founded a spin-off business from Xerox called ParcPlace Systems that commercialized Smalltalk-80 and provided licensing of and support for it. She left ParcPlace in 1995, and in 1999 she co-founded the technological consulting firm Neometron. She has also acted as CTO for various companies, served on advisory boards, and designed online college courses in math and science.

Scope and Content of the Collection

The Adele Goldberg papers contain Goldberg's working files relating to the programming language Smalltalk; periodicals, manuals, and other publications she collected throughout her career; and material relating to conferences and other events she participated in. The records span 1973 through 2010 with the bulk of the collection being from 1973 to 1998.

Goldberg's Smalltalk files document the development, licensing, and documentation of various versions of Smalltalk – from its beginnings at Xerox PARC to its licensing and use elsewhere. Her collection of periodicals, books, and manuals form a comprehensive body of knowledge on object-oriented programming (OOP) and also on what Xerox PARC was researching and developing throughout the 1970s, '80s, and '90s.

Conferences and events relating to object-oriented programming and other facets of Goldberg's work are also well-documented in this collection. Aside from the textual conference proceedings and material, there are videos of Goldberg's public talks contained in this collection's unprocessed audiovisual material – including keynote speeches at ACM's 1986 SIGCHI (Special Interest Group on Computer-Human Interaction) and the 1989 SCOOP conference.

Arrangement

The collection is arranged into 5 series:

- Series 1, Smalltalk, 1973-2010, bulk 1973-1995
- Series 2, Periodicals, technical papers, and articles, 1973-1998
- Series 3, Conferences, workshops, and symposia, 1974-2000
- Series 4, Books and manuals, 1978-1996
- Series 5, Unprocessed AV material, 1978-1997
- Series 6, Unprocessed software, 1995

Indexing Terms

Goldberg, Adele
Kay, Alan (Alan Curtis), 1940-
Object-oriented programming (Computer science)
Smalltalk (Computer program language)
Smalltalk-80 (Computer program language)

Separated Material

Ephemera were separated from the main collection, including pins, buttons, and T-shirts relating to Smalltalk or conferences that Goldberg attended. To view catalog records for separated material search the CHM catalog at <http://www.computerhistory.org/collections/search/>.

Related Collections at CHM

Adele Goldberg oral history, Lot X5823.2010, catalog number 102701984 (pdf) and 102702319 (video).

Related Collections at Other Repositories

Adele Goldberg oral history for the IEEE History Center, http://ethw.org/Oral-History:Adele_Goldberg.

Collection Contents

Series 1, Smalltalk, 1973-2010, bulk 1973-1995

This series contains Goldberg's files on the programming language Smalltalk – including memoranda, program listings, notebooks, correspondence, manuals, newsletters, and promotional material. This material dates from 1973 to 2010 with the bulk from 1973 to 1995. A large part of this series consists of manuals for various versions of Smalltalk and systems related to Smalltalk. The earliest manuals in this series were published by Xerox PARC, starting with early versions of the language such as Smalltalk-72. As Xerox began licensing Smalltalk-80 and subsequent versions for outside use and distribution, other companies – notably ParcPlace Systems – started publishing manuals and other material related to Smalltalk, which are also included in this series. Much of the correspondence and notebooks in this series relate to the development of Smalltalk's source code, its licensing and distribution, and the publication of papers and books about the technology. Of special interest in this series is material regarding the production of a book titled *Smalltalk: Dreams and Schemes* by Adele Goldberg, David Robson, and Larry Tesler. This book eventually became 3 published Smalltalk books, which subsequently formed the basis for much of the legal disclosure in the copyright infringement lawsuit that Apple Computer, Inc. filed in 1988 against Microsoft and Hewlett-Packard. Another highlight of this series is material relating to a project called "Twinkle," which proposed that Xerox create a smaller Star Workstation for students, learning, and education. In this donation's lot file, Goldberg describes this 1982 project as accomplishing many of the innovations of a 1984 Macintosh system, but implemented on earlier 68000 technology. This series is arranged alphabetically by folder title.

Series 2, Periodicals, technical papers, and articles, 1973-1998

This series consists of magazines, journals, articles, and technical papers and reports that date from 1973 to 1998. A large amount of material in this series is made up of periodicals published by SIGS Publications Inc. that are related to object-oriented programming and technology, including *Hotline on Object-Oriented Technology*, *Journal of Object-Oriented Programming*, *C++ Report*, *Object* magazine, and *The Smalltalk Report*. There is also a large number of technical reports from Xerox PARC's blue and white report series, the Université de Genève Centre Universitaire d'Informatique, and the Carnegie Mellon University Department of Computer Science. This series is arranged alphabetically by folder title.

Series 3, Conferences, workshops, and symposia, 1974-2000

This series contains proceedings, preprints, and other material related to conferences, workshops, and symposia from 1974 to 2000. Several of the conferences and symposia are focused on object-oriented programming, including SCOOP 1990, Woodman 1989, TOOLS 6, and the third European Symposium on Object-Oriented Software Development. Also represented are conferences put on by the Association of Computing Machinery (ACM) and the International Federation for Information Processing (IFIP). Papers and presentations by Goldberg are included among the material for several conferences and symposia. Also included

are two folders containing hand-drawn slides, photographic slides, and handwritten notes for presentations by Goldberg from 1985 and 1986, including a presentation titled "What Do We Really Know About Design" that was given at SIGCHI '86 held in Boston, and a presentation given at the ACM annual conference held in Denver in 1985. This series is arranged alphabetically by folder title.

Series 4, Books and manuals, 1978-1996

This series is made up of books and manuals published from 1978 to 1996. There are a number of XE programming guides published by Helsinki University of Technology and manual drafts for DEMOS (Discrete Event Modelling on Simula). Also included is a two-volume tutorial on object-oriented computing. Books include those published by Object Management Group, an overview of Xerox 8000 series products, and an autobiography of Harold Hershey Hall. This series is arranged alphabetically by folder title.

Series 5, Unprocessed AV material, 1978-1997

This series consists of unprocessed audiovisual material from 1978 to 1997. Included are slides, photographs, VHS and Beta tapes, ephemera, and a personal album with clippings and photographs. Some of the videos document public talks, including "Computer Chronicles Women in Computing, September 1985" and Goldberg's keynote speech at ACM's SIGCHI (Special Interest Group on Computer-Human Interaction). Also included are educational and/or promotional videos relating to Xerox PARC, Smalltalk, VisualWave, LearningWorks, and other systems. This series is unarranged.

Series 6, Unprocessed software, circa 1995

This series consists of unprocessed software from circa 1995. Included is a full software product in original packaging for VisualWorks from ParcPlace/Digitalk. This series is unarranged.

Folder List

Adele Goldberg papers

X5774.2010

	<u>Catalog Number</u>	<u>Title</u>	<u>Date</u>
		Smalltalk	
Box AV 2	102739342	Adele Goldberg and Smalltalk photographs	ca. 1982
Box 1	102739394	Alan C. Kay papers	1977-1993
Box 1	102739395	ENVY/Developer and VisualWorks 2.0	1994
Box 1	102739396	L. Peter Deutsch papers	1983-1987
Box 1	102739397	Model-view-controller (MVC)	1982-1986
Box 1	102739343	NoteTaker	ca. 1979
Box 1	102739390	Object-oriented programming promotional material	1994-1995
Box 1	102739393	ParcPlace promotional material and newsletters	1988-1992
Box 1	102739341	Shazam	1973-1976
Box 1	102739321	Smalltalk : dreams and schemes	1978-1983
Box 1	102739402	Smalltalk animation kit	1978
Box 1	102739386	Smalltalk course material	1978; 1983
Box 1	102739401	Smalltalk file directory	2010
Box 1	102739348	Smalltalk history	1980-1983
Box 1; 2	102739366	Smalltalk manuals by various publishers	1975-1990
Box 2	102739373	Smalltalk manuals published by ParcPlace	1988-1995
Box 2	102739370	Smalltalk manuals published by Xerox	1976-1987
Box 2	102739400	Smalltalk memoranda	1973-1982
Box 2	102739339	Smalltalk newsletter	1983
Box 2	102739398	Smalltalk presentation material	1985-1994

	<u>Catalog Number</u>	<u>Title</u>	<u>Date</u>
	Smalltalk		
Box 2	102739382	Smalltalk press and clippings	1983-2002
Box 2	102739403	Smalltalk program listings	1974-1983
Box 2	102739384	Smalltalk reference and status reports	1982-1983
Box 3	102739361	Smalltalk syntax	1976-1981
Box 3	102739337	Smalltalk-80 : the language and its implementation	1982
Box 3	102739350	Smalltalk-80 Dandelion project	1982-1983
Box AV 1	102739399	Smalltalk-80 Fuji Xerox video	ca. 1985
Box 3	102739340	Smalltalk-80 licensing and distribution	1981-1983
Box 3	102739344	Smalltalk-related technical papers and reports	1975-1990
Box 3	102739352	TinyTalk	1978-1980
Box 3	102739353	Twinkle	1982
Box 3	102739346	Virtual Memory Interest Group	1976-1980
Box 3	102739336	World Class Objects	1994
Box 3	102739360	Xerox research centers	ca. 1975

	<u>Catalog Number</u>	<u>Title</u>	<u>Date</u>
	Periodicals, technical papers, and articles		
Box 3	102739323	C++ report	1988-1996
Box 3; 4	102739320	Carnegie-Mellon University technical reports	1976-1989
Box 4	102739325	First class	1988-1994
Box 4	102739538	Forbes	1990-03
Box 4	102739532	HOOPLA!	ca. 1989
Box 4	102739322	Hotline on object-oriented technology	1989-1993
Box 4	102739326	Journal of object-oriented programming	1988-1996
Box 5	102739327	Object magazine	1991-1997
Box 5	102739537	Open computing	1994-12
Box 5	102739328	Other articles and technical papers	1983-1993
Box 5	102739329	PC AI	1992-1996
Box 5	102739391	R&D Budget and Policy Project report	1986
Box 5	102739531	Reed	1995-11
Box 5	102739330	Report on object analysis & design	1994-1996
Box 5	102739324	Saint Silicon clippings and promotional material	1991
Box 5	102739331	Smalltalk report, The	1991-1998
Box 5	102739535	Softwarové noviny	1991
Box 5; 9	102739332	Sony Computer Science Laboratory technical reports	1989-1993
Box 9	102739536	Success	1992-09
Box 9	102739539	TWA Ambassador	1982-06
Box 6	102739333	Université de Genève technical reports	1987-1998

	<u>Catalog Number</u>	<u>Title</u>	<u>Date</u>
	Periodicals, technical papers, and articles		
Box 6	102739335	Women in computer science	undated
Box 6	102739334	WRL technical note and research report	1986-1989
Box 6; 7	102739338	Xerox PARC technical reports	1973-1995

	<u>Catalog Number</u>	<u>Title</u>	<u>Date</u>
Conferences, workshops, and symposia			
Box 7	102739347	ACM Conferences on the History of Computing	1986-1987
Box 7	102739392	Business Engineering with Object Technology seminar	ca. 1994
Box 7	102739349	Eurographics 82	1982
Box 7	102739356	Grace Hopper Celebration of Women in Computing	1994
Box 7	102739355	IISF/ACMJ International Symposium	1994
Box 7	102739345	Information Processing 74	1974
Box 7; 8	102739354	Lecture Notes in Computer Science series	1987-2001
Box 8	102739359	Presentation slides	1985-1986
Box 8	102739351	Seminars and Conference in Object-Oriented Programming (SCOOP)	1990
Box 8	102739358	Third European Symposium on Object-Oriented Software Development	1992
Box 8	102739389	TOOLS 6	1991
Box 8	102739357	Woodman '89	1989

	<u>Catalog Number</u>	<u>Title</u>	<u>Date</u>
	Books and manuals		
Box 8	102739385	Apple facts 5.96	1996-05
Box 8	102739374	DEMOS manuals	1978
Box 8	102739375	Helsinki University of Technology XE programming guides	1989
Box 8	102739381	HHHiStory : an autobiography	1995-1996
Box 8	102739383	HP NewWave general information manual	1990
Box 8	102739380	KickStart Initiative : connecting America's communities to the information superhighway	1996
Box 8	102739387	Macintosh notebook : MacPaint	1985
Box 8	102739379	More color computer applications : high-resolution graphics	1984
Box 8	102739388	Neptune manual	undated
Box 8	102739377	Object Management Group books	1994
Box 8	102739378	Office systems technology : a look into the world of the Xerox 8000 series products	1982
Box 8	102739376	Tutorial : object-oriented computing	1987

<u>Catalog Number</u>	<u>Title</u>	<u>Date</u>	
Unprocessed AV material			
Box AV 1-3	102724548	Adele Goldberg collection of scrapbooks, photographs, and moving images	1978-1997

	<u>Catalog Number</u>	<u>Title</u>	<u>Date</u>
	Unprocessed software		
Box Software 1	102724549	Unprocessed software	ca. 1995