

The following is a complete list of articles written about Garnet, as of September 4, 1994. There are 40 refereed journal articles, 4 book chapters, 17 tech reports, and 3 articles submitted for publication.

Refereed Journal Articles

Brad A. Myers. "User Interface Software Tools." *ACM Transactions on Computer-Human Interaction*. To appear.

Brad Vander Zanden, Brad A. Myers, Dario Giuse and Pedro Szekely. "Integrating Pointer Variables into One-Way Constraint Models," *ACM Transactions on Computer-Human Interaction*. Vol. 1, no. 2, To appear.

Brad A. Myers. "Challenges of HCI Design and Implementation," *ACM Interactions*. Vol. 1, no. 1. January, 1994. pp. 73-83.

Robert J.K. Jacob, John J. Leggett, Brad A. Myers, and Randy Pausch. "Interaction Styles and Input/Output Devices," *Behaviour and Information Technology*. March-April, 1993. Vol. 12, no. 2. pp. 69-79.

Dan R. Olsen, Jr., James D. Foley, Scott E. Hudson, James Miller, and Brad Myers. "Research Directions for User Interface Software Tools," *Behaviour and Information Technology*. March-April, 1993. Vol. 12, no. 2. pp. 80-97.

Brad A. Myers and Brad Vander Zanden. "Environment for Rapid Creation of Interactive Design Tools," *The Visual Computer; International Journal of Computer Graphics*. Vol 8, No. 2, February, 1992. pp. 94-116.

Brad A. Myers, Dario A. Giuse, Roger B. Dannenberg, Brad Vander Zanden, David S. Kosbie, Ed Pervin, Andrew Mickish, and Philippe Marchal. "Garnet; Comprehensive Support for Graphical, Highly-Interactive User Interfaces," *IEEE Computer*. Vol. 23, No. 11. November, 1990. pp. 71-85. Translated into Japanese and reprinted in *Nikkei Electronics*, No. 522, March 18, 1991, pp. 187-205.

Brad A. Myers. "A New Model for Handling Input," *ACM Transactions on Information Systems*. Vol. 8, No. 3. July, 1990. pp. 289-320.

Refereed Conference Articles

Brad A. Myers. "The Garnet User Interface Development Environment: Demonstration Abstract." *CHI'94*

Conference Companion. Boston, MA, Apr. 24-28, 1994. pp. 25-26.

Brad A. Myers and Dan R. Olsen, Jr. "User Interface Tools: Tutorial Description" *CHI'94 Conference Companion*. Boston, MA, Apr. 24-28, 1994. pp. 421-422.

Brad A. Myers, Dario Giuse, Andrew Mickish, Brad Vander Zanden, David Kosbie, Richard McDaniel, James Landay, Matthew Goldberg, and Rajan Pathasarathy. "The Garnet User Interface Development Environment: Video Abstract," *CHI'94 Conference Companion*. Boston, MA, Apr. 24-28, 1994. pp. 455-456.

Gurminder Singh, Mark Linton, Brad A. Myers, and Marti Szczur. "From Research Prototypes to Usable, Useful Systems: Lessons Learned in the Trenches," *Proceedings ACM Symposium on User Interface Software and Technology: UIST'93*. Atlanta, GA, Nov 3-5, 1993. pp. 139-143.

Brad A. Myers, Richard G. McDaniel, and David S. Kosbie. "Marquise: Creating Complete User Interfaces by Demonstration," *Proceedings INTERCHI'93: Human Factors in Computing Systems*. Amsterdam, The Netherlands, April 24-29, 1993. pp. 293-300.

Brad A. Myers, Richard Wolf, Kathy Potosnak, and Chris Graham. "Heuristics in Real User Interfaces," *Proceedings INTERCHI'93: Human Factors in Computing Systems*. Amsterdam, The Netherlands, April 24-29, 1993. pp. 304-307.

James A. Landay and Brad A. Myers. "Extending an Existing User Interface Toolkit to Support Gesture Recognition." *Adjunct Proceedings of INTERCHI'93*. Amsterdam, The Netherlands, April 24-29, 1993. pp. 91-92.

Brad A. Myers. "The Garnet Gilt Interface Builder: Graphical Styles and Tabs and Techniques for Reducing Call-Back Procedures," Application Builder Session, *Seventh Annual X Technical Conference*, Boston, Massachusetts, January 18, 1993.

Osamu Hashimoto and Brad A. Myers. "Graphical Styles For Building User Interfaces by Demonstration," *ACM Symposium on User Interface Software and Technology*, Monterey, CA, Nov. 16-18, 1992. pp. 117-124.

Brad A. Myers, Dario A. Giuse, and Brad Vander Zanden. "Declarative Programming in a Prototype-Instance System: Object-Oriented Programming Without Writing Methods," *Proceedings OOPSLA'92: ACM Conference on Object-Oriented Programming Systems, Languages, and Applications*. October 18-22, 1992. Vancouver, BC, Canada. *SIGPLAN Notices*, vol. 27, no. 10. pp. 184-200.

Brad A. Myers and Mary Beth Rosson. "Survey on User Interface Programming," *Proceedings*

SIGCHI'92: Human Factors in Computing Systems. Monterrey, CA, May 3-7, 1992. 195-202.

Brad A. Myers. "Separating Application Code from Toolkits: Eliminating the Spaghetti of Call-Backs," *ACM Symposium on User Interface Software and Technology*, Hilton Head, SC, Nov. 11-13, 1991. pp. 211-220.

Brad Vander Zanden, Brad A. Myers, Dario Giuse and Pedro Szekely. "The Importance of Indirect References in Constraint Models," *ACM Symposium on User Interface Software and Technology*, Hilton Head, SC, Nov. 11-13, 1991. pp. 155-164.

Brad A. Myers. "Graphical Techniques in a Spreadsheet for Specifying User Interfaces," *Proceedings SIGCHI'91: Human Factors in Computing Systems*. New Orleans, LA. April 28-May 2, 1991. pp. 243-249.

Brad Vander Zanden and Brad A. Myers, "Automatic, Look-and-Feel Independent Dialog Creation for Graphical User Interfaces," *Proceedings SIGCHI '90: Human Factors in Computing Systems*. Seattle, WA, April 1-5, 1990. pp. 27-34.

Brad A. Myers. "Making it Easy to Create Highly-Interactive, Graphical Applications in Lisp," *XNextEvent: The Official Newsletter of XUG, The X User's Group*. Vol. 3., No. 1. April, 1990.

Brad A. Myers. "An Object-Oriented, Constraint-Based, User Interface Development Environment for X in CommonLisp," *Fourth Annual X Technical Conference*, Boston, Massachusetts, January 15-17, 1990.

Dario Giuse. "Efficient Frame Systems," *Lecture Notes in Artificial Intelligence, EPIA 1989*. Vol. 390. J.P. Martins and E.M. Morgado, eds. Springer-Verlag, Sep, 1989.

Brad A. Myers, Brad Vander Zanden, and Roger B. Dannenberg. "Creating Graphical Interactive Application Objects by Demonstration," *ACM Symposium on User Interface Software and Technology*, Williamsburg, VA, Nov. 13-15, 1989. pp. 95-104.

Charles Wiecha, Stephen Boies, Mark Green, Scott Hudson, and Brad Myers. "Direct Manipulation or Programming: How Should We Design Interfaces?" *ACM Symposium on User Interface Software and Technology*, Williamsburg, VA, Nov. 13-15, 1989. pp. 124-126.

Brad A. Myers. "AI In Demonstrational User Interfaces," *A New Generation of Intelligent Interfaces: IJCAI-89 Workshop*, Detroit, MI. August 22, 1989, pp. 84-91.

Dario Giuse. "Efficient Knowledge Representation Systems," *The Knowledge Engineering Review*, Vol 4,

no. 4, 1990.

Brad A. Myers. "Encapsulating Interactive Behaviors," *Proceedings SIGCHI '89: Human Factors in Computing Systems*. Austin, Texas, April 30 - May 4, 1989, pp. 319-324.

Brad A. Myers. "User Interface Tools: Introduction and Survey," *IEEE Software*, Vol. 6, no. 1, Jan, 1989. pp. 15-23. To be reprinted in *Milestones in Software Evolution*, Paul W. Oman and Ted G. Lewis, ed. IEEE Computer Society Press.

Pedro Szekely and Brad Myers. "A User Interface Toolkit Based on Graphical Objects and Constraints," *OOPSLA '88: Conference on Object-Oriented Programming: Systems, Languages and Applications*, San Diego, CA, September 25-30, 1988. *Sigplan Notices*, Vol 23, no. 11, November, 1988. pp. 36 - 45.

Daniel Kuokka and Dario Giuse. "The Dante Application Interface," *Proceedings of the 2nd IEEE International Conference on Computer Workstations*, Clara, California, March 7-10, 1988.

Dario Giuse. "Lisp as a Rapid Prototyping Environment: The Chinese Tutor." In *Lisp and Symbolic Computation - An International Journal*, Kluwer Academic Publishers, May 1987.

Refereed Published Videotapes

Brad A. Myers, Dario Giuse, Andrew Mickish, Brad Vander Zanden, David Kosbie, Richard McDaniel, James Landay, Matthew Goldberg, and Rajan Pathasarathy. *The Garnet User Interface Development Environment*. Technical Video Program of the CHI'94 conference. *SIGGRAPH Video Review*, Issue 97, no. 13.

Brad A. Myers, Andrew Mickish and Osamu Hashimoto. "The Garnet Gilt Interface Builder: Graphical Styles and Tabs and Techniques for Reducing Call-Back Procedures," Application Builder Video Session, *Seventh Annual X Technical Conference*, Boston, Massachusetts, January 18, 1993. 10 minutes.

Brad Vander Zanden and Brad A. Myers. *Creating Graphical Interactive Application Objects by Demonstration: The Lapidary Interface Design Tool*. 12 minute videotape. Technical Video Program of the SIGCHI'91 conference, New Orleans, LA. April 28-May 2, 1991. *SIGGRAPH Video Review*, Issue 64, no. 1.

Brad A. Myers. *Some of the Widgets*. 17 minute videotape. Technical Video Program of Interact'90. Cambridge, England. August 27-31, 1990.

Brad A. Myers. *All the Widgets*. 2 hour videotape. Technical Video Program of the SIGCHI'90 conference, Seattle, WA. April 1-4, 1990. *SIGGRAPH Video Review*, Issue 57.

Chapters in Books

Brad A. Myers. "User Interface Software," *Encyclopedia of Computer Science and Technology*. Allen Kent and James G. Williams, editors. New York: Marcel Dekker, Inc., 1994. To appear.

Brad A. Myers. "State of the Art in User Interface Software Tools," *Advances in Human-Computer Interaction, Volume 4*. Edited by H. Rex Hartson and Deborah Hix. Norwood, NJ: Ablex Publishing, 1993. pp. 110-150.

Brad A. Myers. "Garnet: Uses of Demonstrational Techniques," *Watch What I Do: Programming by Demonstration*, Allen Cypher, et. al., eds. Cambridge, MA: The MIT Press, 1993. pp. 219-236.

Brad A. Myers. "Ideas from Garnet for Future User Interface Programming Languages," *Languages for Developing User Interfaces*. Boston: Jones and Bartlett, 1992. pp. 147-157.

Technical Reports:

Brad A. Myers. *User Interface Software Tools*. Carnegie Mellon University School of Computer Science Technical Report, no. CMU-CS-94-182 and Human Computer Interaction Institute Technical Report CMU-HCII-94-107. August 1994.

James A. Landay and Brad A. Myers. *Interactive Sketching for the Early Stages of User Interface Design*. Carnegie Mellon University School of Computer Science Technical Report, no. CMU-CS-94-176 and Human Computer Interaction Institute Technical Report CMU-HCII-94-104. July 1994.

Brad A. Myers, Dario A. Giuse, Andrew Mickish, and David S. Kosbie. *Making Structured Graphics and Constraints Practical for Large-Scale Applications*. Carnegie Mellon University School of Computer Science Technical Report, no. CMU-CS-94-109 and Human Computer Interaction Institute Technical Report CMU-HCII-94-100. May 1994.

Brad A. Myers. *Why are Human-Computer Interfaces Difficult to Design and Implement?* Carnegie Mellon University School of Computer Science Technical Report, no. CMU-CS-93-183. July 1993.

Brad A. Myers, editor. *The Second Garnet Compendium: Collected Papers, 1990-1992*. Carnegie Mellon University School of Computer Science Technical Report, no. CMU-CS-93-108, February, 1993.

Brad A. Myers, Dario Giuse, Andrew Mickish, Brad Vander Zanden, David Kosbie, James A. Landay, Richard McDaniel, Rajan Parthasarathy, Matthew Goldberg, Roger B. Dannenberg, Philippe Marchal, Ed Pervin. *The Garnet Reference Manuals*. Carnegie Mellon University Computer Science Department Technical Report, no. CMU-CS-90-117-R5, Sep. 1994. Revised from CMU-CS-90-117-R4, Oct. 1993, CMU-CS-90-117-R3, Nov. 1992, CMU-CS-90-117-R2, May 1992, CMU-CS-90-117-R, June 1991, CMU-CS-90-117, March, 1990, and CMU-CS-89-196, Nov. 1989.

Bonnie E. John, Philip L. Miller, Brad A. Myers, Christine M. Neuwirth, and Steven A. Shafer, eds. *Human-Computer Interaction in the School of Computer Science*. Carnegie Mellon University School of Computer Science Technical Report, no. CMU-CS-92-193, October, 1992.

Brad A. Myers. *State of the Art in User Interface Software Tools*. Carnegie Mellon University School of Computer Science Technical Report, no. CMU-CS-92-114, February, 1992.

Brad A. Myers and Mary Beth Rosson. *Survey on User Interface Programming*. Carnegie Mellon University School of Computer Science Technical Report, no. CMU-CS-92-113, February, 1992. Also published as IBM Research Report RC17624.

Brad A. Myers, editor. *The Garnet Compendium: Collected Papers, 1989-1990*. Carnegie Mellon University School of Computer Science Technical Report, no. CMU-CS-90-154, August, 1990.

David Kosbie, Brad Vander Zanden, Brad A. Myers, and Dario Giuse. "Automatic Graphical Output Management," *The Garnet Compendium: Collected Papers, 1989-1990*, Carnegie Mellon University School of Computer Science Technical Report, no. CMU-CS-90-154, August, 1990, pp. 29-43.

Roger B. Dannenberg, Brad A. Myers, Dario Giuse, and David Kosbie. "Using Aggregates as Prototypes," *The Garnet Compendium: Collected Papers, 1989-1990*, Carnegie Mellon University School of Computer Science Technical Report, no. CMU-CS-90-154, August, 1990, pp. 79-93.

Dario Giuse. *KR: Constraint-Based Knowledge Representation*. Carnegie Mellon University Computer Science Department Technical Report, no. CMU-CS-89-142, Apr, 1989.

Brad A. Myers. *The Garnet User Interface Development Environment; A Proposal*. Carnegie Mellon University Computer Science Department Technical Report, no. CMU-CS-88-153, Sept, 1988.

Brad A. Myers. *Tools for Creating User Interfaces: An Introduction and Survey*, Carnegie Mellon University Computer Science Department Technical Report, no. CMU-CS-88-107, Jan, 1988.

Dario Giuse. *KR: an Efficient Knowledge Representation System*. Carnegie Mellon University Robotics Institute Technical Report, no. CMU-RI-TR-87-23, Oct, 1987.

Submitted for Publication

James Landay and Brad A. Myers. "Interactive Sketching for the Early Stages of User Interface Design."

Nobuhisa Yoda and Brad A. Myers. "A High Level Architecture with Reusable Components for Synchronous Groupware Applications."

Brad Vander Zanden and Brad A. Myers. "The Lapidary Graphical Interface Design Tool."