Visualization of Algorithms

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Education:
Ph.D. Purdue University, Computer Science

Areas of expertise: algorithms, theory, Programming languages

Grants and awards
NSF CSEMS Scholarship grant
NSF REU undergraduate research grant

Key publications and presentations

Dershem, H.L., McFall, R.L., and N. Uti*, "A Linked List Prototype for the Visual Represenation of Abstract Data Types," Interactive Multimedia Electronic Journal of Computer-Enhanced Learning, 4,2(Oct, 2002).

Dershem, H.L. and P. Brummund, "Tools for Web-Based Sorting Animation," *SIGCSE Bulletin*, 30,1(Mar, 1998), 222-226.

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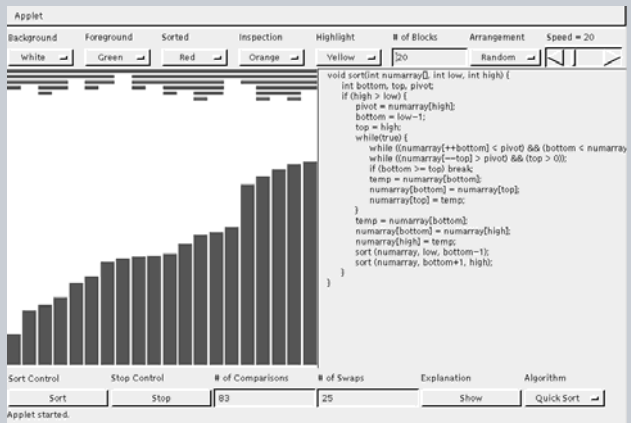
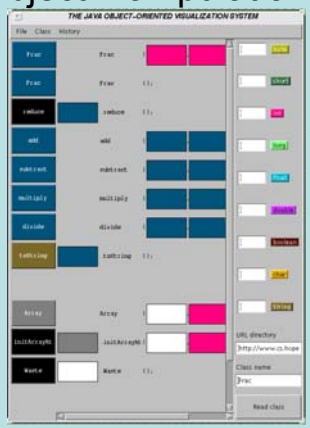
My research involves the visualization of algorithms and data structures.

It began with the visualization of sorting algorithms



ObVis is automated visualization of Java object manipulation.



JVALL is an automatic visualization of data structures in Java. The example below is linked list.