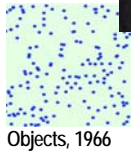
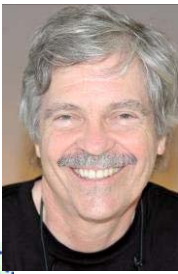


The best way to predict the future is to invent it!
— Alan Kay



Objects, 1966



Flex Machine 1967-9



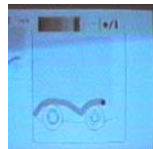
Dynabook, 1968



Dynabook model



Alto at PARC, 1973



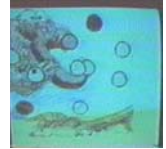
Bit-map painting



Printing quality fonts



Windows GUI



Real-time animation



One Laptop for every child



Desktop Pub



Music Room

Alan Kay is one of the earliest pioneers of object-oriented programming, personal computing, and graphical user interfaces. His contributions have been recognized with the **Charles Stark Draper Prize** of the National Academy of Engineering¹ “for the vision, conception, and development of the first practical networked personal computers,” the **Alan. M. Turing Award** from the Association of Computing Machinery “for pioneering many of the ideas at the root of contemporary object-oriented programming languages, leading the team that developed Smalltalk, and for fundamental contributions to personal computing,” and the **Kyoto Prize** from the Inamori Foundation “for creation of the concept of modern personal computing and contribution to its realization.” This work was done in the rich context of ARPA and Xerox PARC with many talented colleagues.

While at the ARPA project at the University of Utah in the late 60s, he invented dynamic object-oriented programming², was part of the original team that developed continuous tone 3D graphics, was the co-designer of the FLEX Machine³, an early desktop computer with graphical user interface and object-oriented operating system, participated in the design of the ARPAnet, and inspired by children⁴, conceived the Dynabook, a laptop personal computer for children of all ages.

At the Xerox Palo Alto Research Center in the Early 70's he invented Smalltalk, the first completely object-oriented programming, authoring and operating system (which included the now ubiquitous overlapping window interface), instigated the bit-map screen, screen painting and animation, participated in desk-top publishing, other desk-top media, and the development of the Alto¹, the first modern networked personal computer. This was part of the larger process at PARC that created an entire genre of personal computing including: the GUI, Ethernet, Laserprinting, modern word processing, client-servers and peer-peer networking.

He has a BA in Mathematics and Biology with minor concentrations in English and Anthropology from the University of Colorado, 1966. MS and PhD degrees in Computer Science (1968 and 1969, both with distinction) from the University of Utah, and Honorary Doctorates from the Kungl Tekniska Hogskolan in Stockholm, Sweden, Columbia College in Chicago, Georgia Tech, the University of Pisa in Italy and the University of Waterloo in Ontario, Canada.

He has been elected a Fellow of the American Academy of Arts and Sciences, the National Academy of Engineering, the American Association for the Advancement of Science, the Royal Society of Arts, the Association for Computing Machinery, and the Computer History Museum.

Other honors include: J-D Warnier *Prix d'Informatique*, ACM Systems Software Award⁵, NEC Computers & Communication Foundation Prize, Funai Foundation Prize, Lewis Branscomb Technology Award, the ACM SIGCSE Award for Outstanding Contributions to Computer Science Education, and the CRN Hall of Fame.

He has been a Xerox Fellow, Chief Scientist of Atari, Apple Fellow, Disney Fellow, and HP Senior Fellow. He is currently an Adjunct Professor of Computer Science at UCLA. In 2001 he founded Viewpoints Research Institute, a non-profit organization dedicated to children, learning and advanced systems research. <http://www.vpri.org>

At Viewpoints Research Institute he and his colleagues continue to explore advanced systems and programming design by aiming for a “Moore’s Law” advance in software creation of many orders of magnitude. Kay and Viewpoints are also deeply involved in the One Laptop Per Child initiative that seeks to create a Dynabook-like “\$100 laptop” for every child in the world (especially in the 3rd world).

Outside of computing, Kay entered show business in the 50s as a professional jazz guitarist. Much of his subsequent work combined music and theatrical production. Today he is an avid amateur classical pipe organist and has just taken up jazz guitar again after more than 40 years.

¹ with Robert Taylor, Butler Lampson, and Charles Thacker.

² inspired by Sketchpad and Simula

³ with Ed Cheadle

⁴ after meeting Seymour Papert and seeing the amazing work he was doing with children and LOGO

⁵ with Dan Ingalls and Adele Goldberg