Doing with images makes symbols
Alan Kay

Jean Piaget, pioneering work in child development

1962, MIT Lincoln Laboratory:
Wesley Clark: first personal computer

Ivan Sutherland's PhD thesis 1963 Sketchpad:
>   object-oriented programming, concept of graphical user interfaces (GUIs)

Xerox Palo Alto Research Center (= Xerox PARC), Palo Alto, California:
>   Smalltalk (language + object-oriented framework for GUI programming +
>   object-oriented programming environment)
>   GUIs, desktop paradigm, mouse, bitmaped displays
>   Ethernet
>   laser printing

>   key researchers: Butler W. Lampson, Alan Kay, Charles P. Thacker,
>   Adele Goldberg