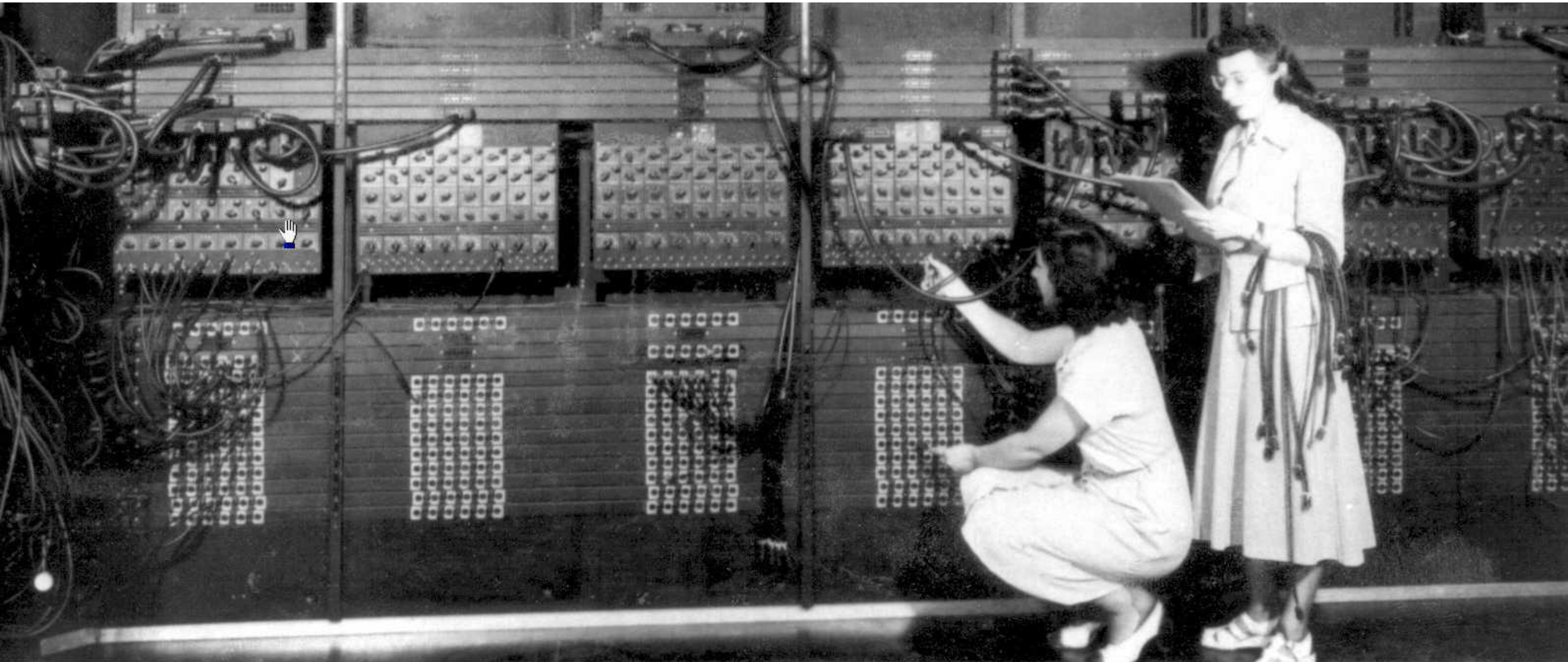


| The History of HCI

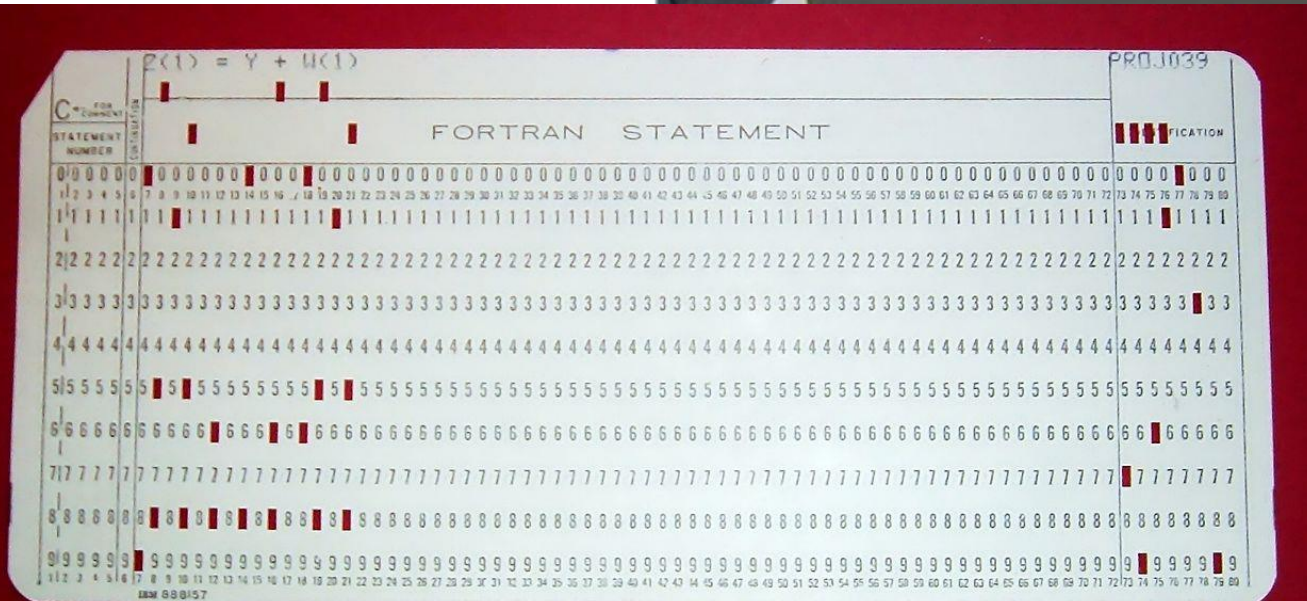
HCI

Human-computer interaction is a discipline concerned with the design, evaluation and implementation of interactive computing systems for human use and with the study of major phenomena surrounding them. [ACM SIGCHI definition, 1996]

ENIAC Switch & Cable Interface (1945)



Keypunch Interface (1950s)



Command Line Terminal Interface (1960s)

```
Terminal
-rwxr-xr-x 1 sys      52850 Jun  8  1979 hptmunix
drwxrwxr-x 2 bin       320 Sep 22 05:33 lib
drwxrwxr-x 2 root      96 Sep 22 05:46 mdec
-rwxr-xr-x 1 root    50990 Jun  8  1979 rkunix
-rwxr-xr-x 1 root    51982 Jun  8  1979 rl2unix
-rwxr-xr-x 1 sys     51790 Jun  8  1979 rphtunix
-rwxr-xr-x 1 sys     51274 Jun  8  1979 rptmunix
drwxrwxrwx 2 root      48 Sep 22 05:50 tmp
drwxrwxr-x12 root     192 Sep 22 05:48 usr
# ls -l /usr
total 11
drwxrwxr-x 3 bin      128 Sep 22 05:45 dict
drwxrwxrwx 2 dmr       32 Sep 22 05:48 dmr
drwxrwxr-x 5 bin     416 Sep 22 05:46 games
drwxrwxr-x 3 sys     496 Sep 22 05:42 include
drwxrwxr-x10 bin     528 Sep 22 05:43 lib
drwxrwxr-x11 bin     176 Sep 22 05:45 man
drwxrwxr-x 3 bin     208 Sep 22 05:46 mdec
drwxrwxr-x 2 bin      80 Sep 22 05:46 pub
drwxrwxr-x 6 root      96 Sep 22 05:45 spool
drwxrwxr-x13 root    208 Sep 22 05:42 src
# ls -l /usr/dmr
total 0
#
```

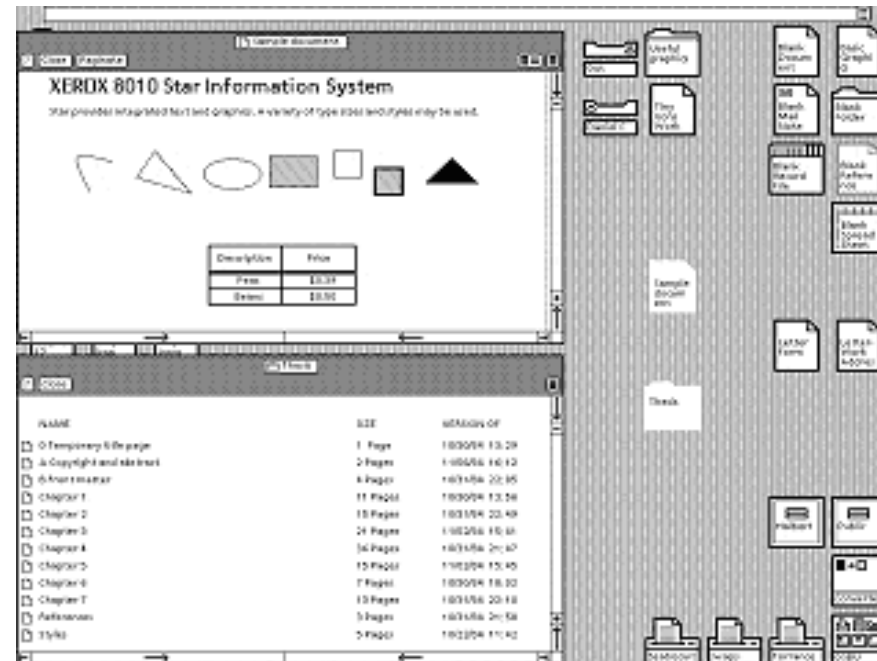
Apple *Macintosh* (1984)



First commercially
successful general-
purpose GUI.

Xerox *Star* (1981)

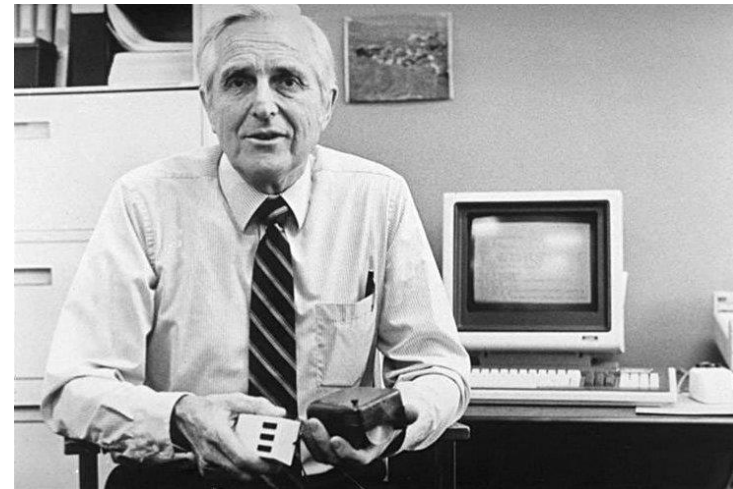
First commercial general-purpose GUI in more or less the mature form we know today.



Invention of the Mouse

Doug Engelbart (1963)

Invention of the general-purpose GUI.



The Mother of All Demos (1968)

Many historic firsts:

- windows
- hypertext
- graphics
- efficient navigation & command input
- video conferencing
- the computer mouse
- word processing
- dynamic file linking
- revision control
- collaborative real-time editor



Sketchpad

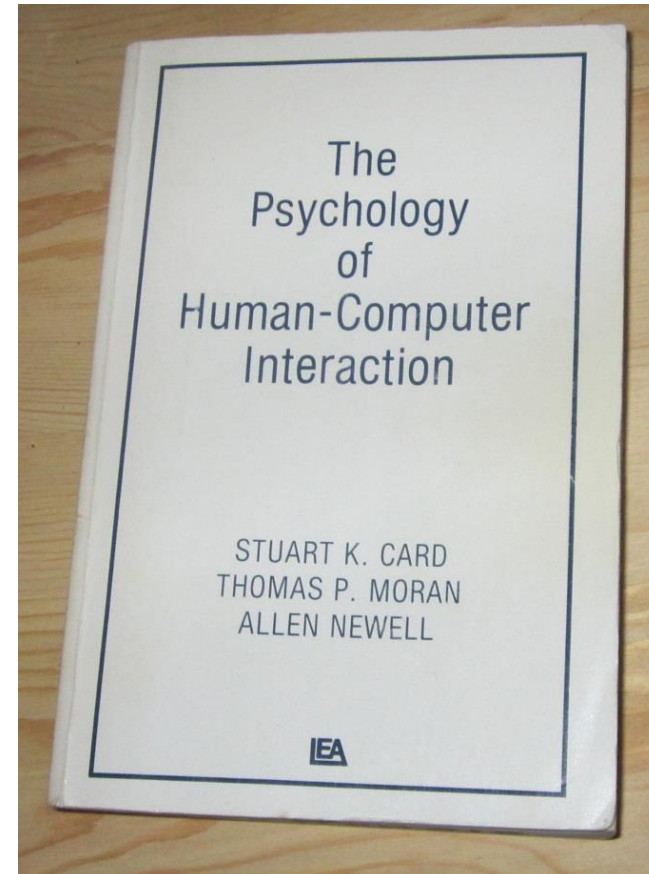
Ivan Sutherland (1962)



I.S. MacKenzie
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Birth of HCI - 1983

- Notable events:
 - First ACM SIGCHI conference (1983)
 - Publication of *The Psychology of Human-Computer Interaction* by Card, Moran, and Newell (1983)
 - Apple *Macintosh* announced via brochures (December, 1983) and launched (January, 1984)



“As We May Think”, Vannevar Bush (1945)



Significant Event Timeline

