

بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِيْمِ

کارگاه کامپیوٹر

سید محمد غفاریان

سال تحصیلی ۹۵-۹۴



دانشگاه صنعتی امیرکبیر

موضوع این ارائه

پیشینه دنیای کامپیووتر

مقدمه

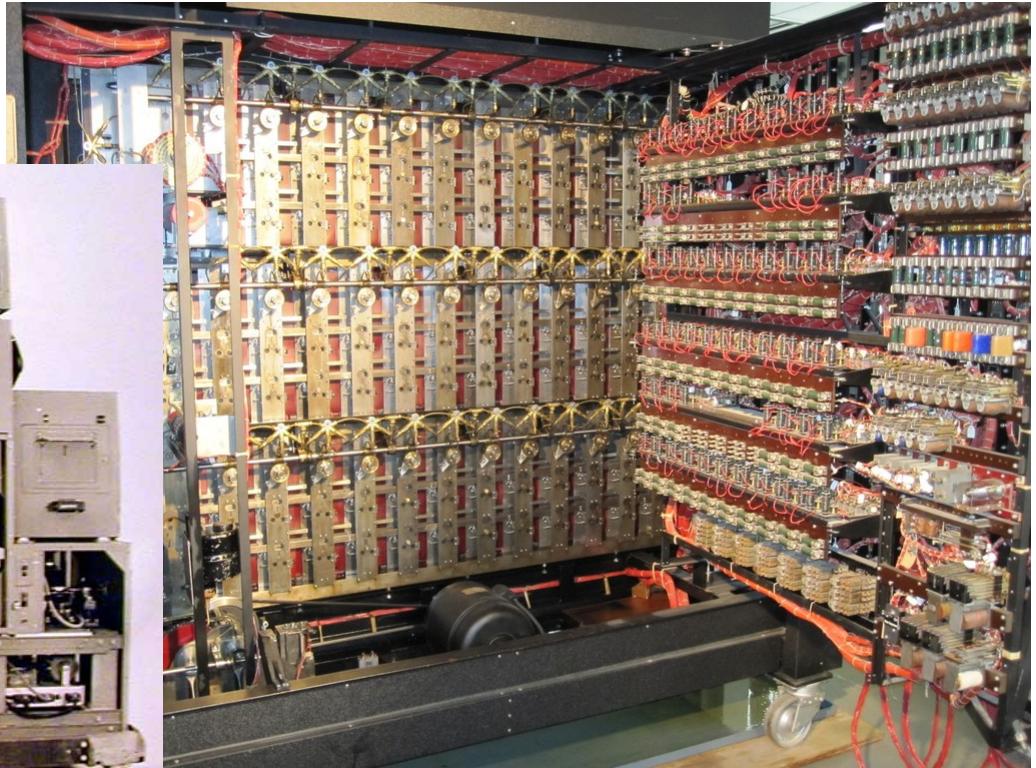
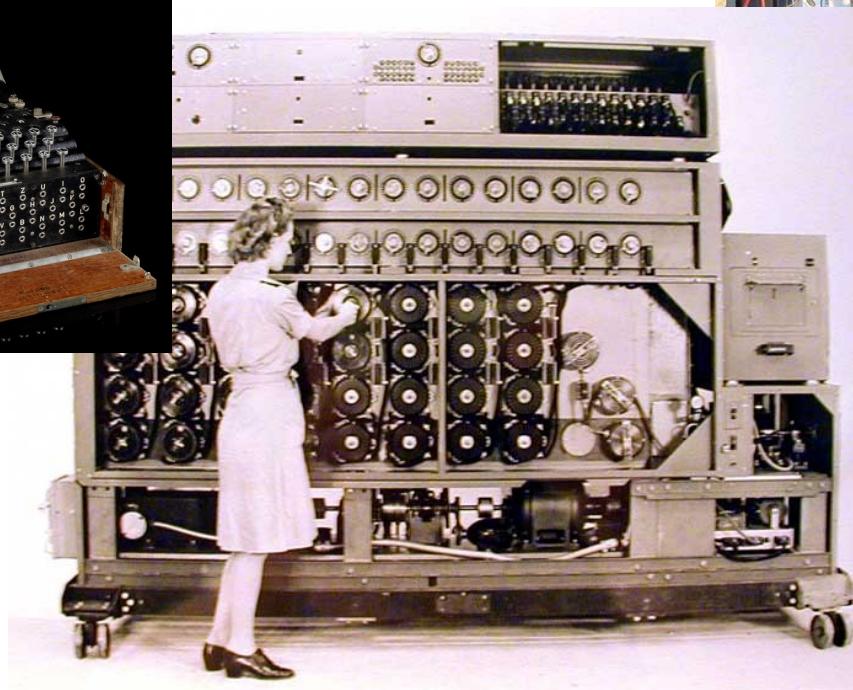
در این ارائه خلاصه‌ای از برخی از مهمترین و کلیدی‌ترین وقایع در پیشینه دنیای سخت‌افزار و نرم‌افزار کامپیوترها مرور می‌شوند.

مقدمه

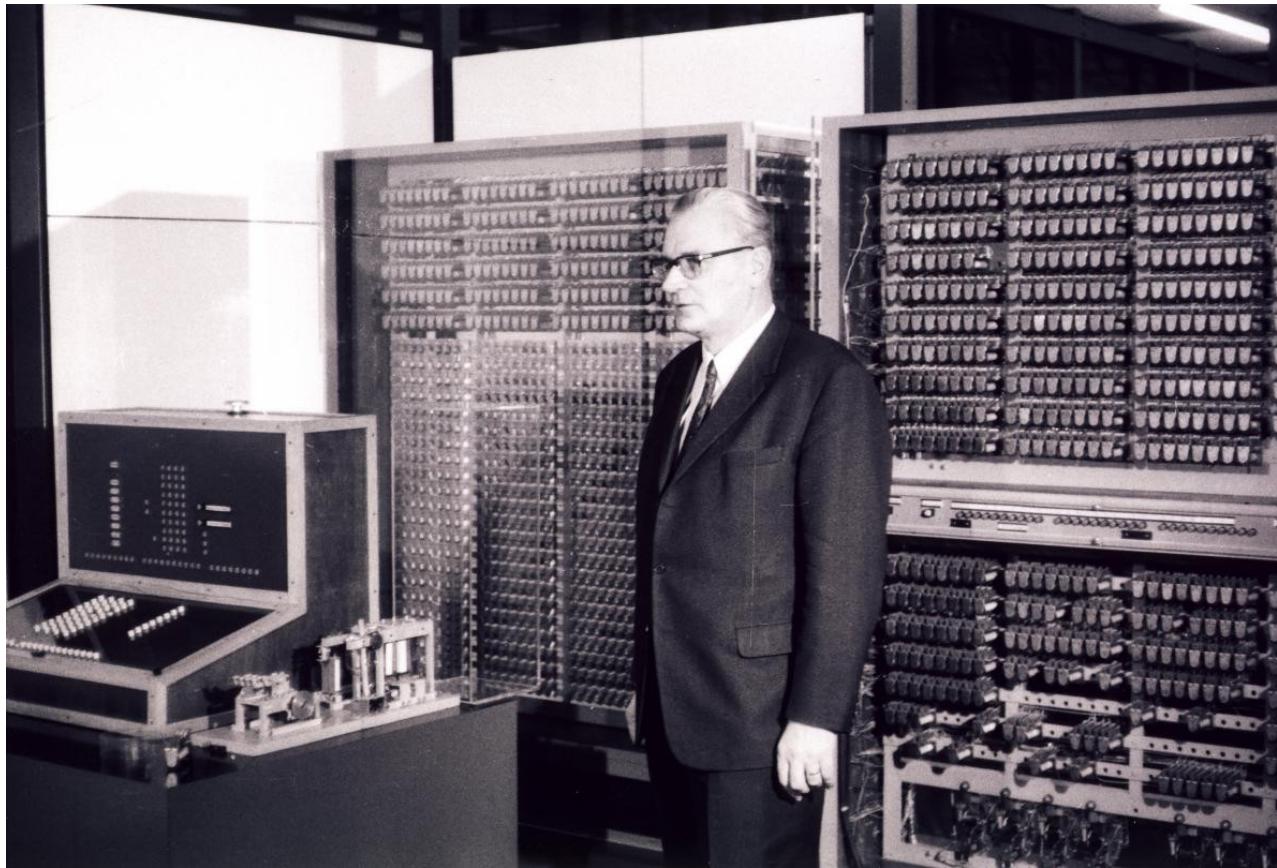
- تعریف کامپیوتر چیست؟

A machine which is capable of receiving input data in a particular form and of performing a sequence of operations in accordance with a predetermined but variable set of procedural instructions (program) to produce a result in the form of information or signals.

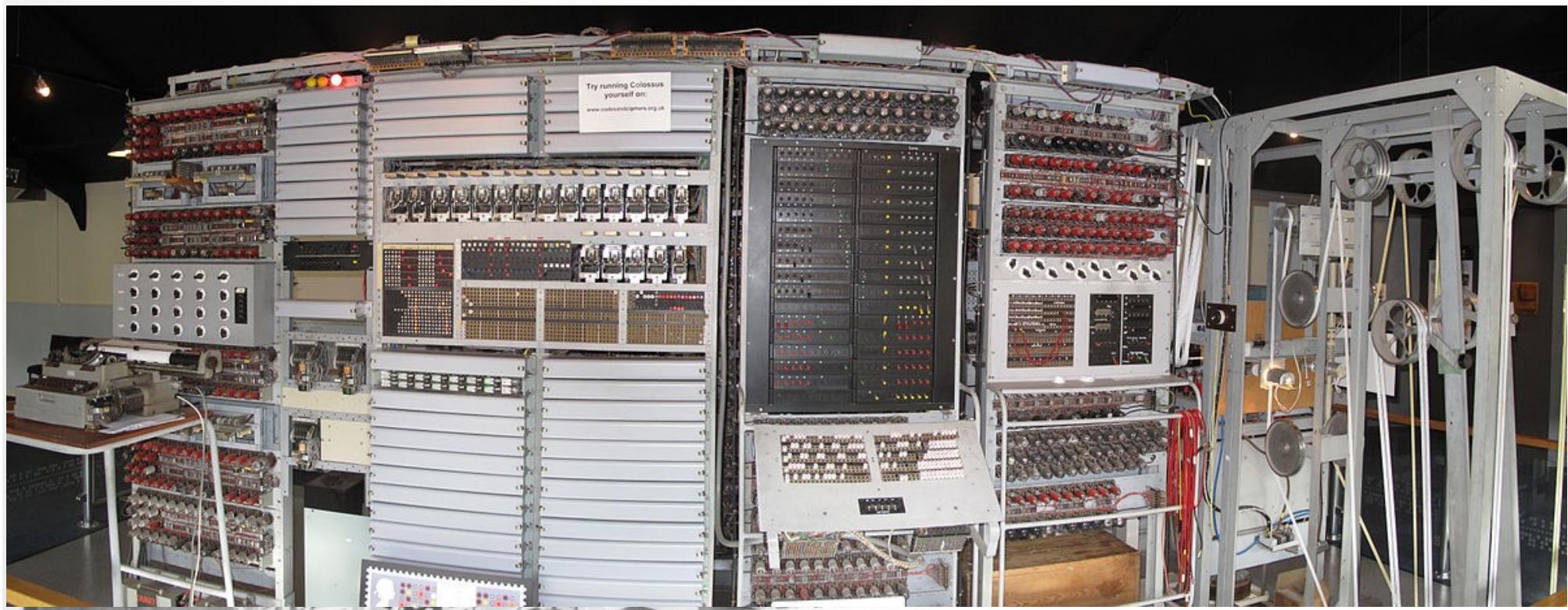
1940 – The Bombe



1941 – Z3 machine



1943 - Colossus machine

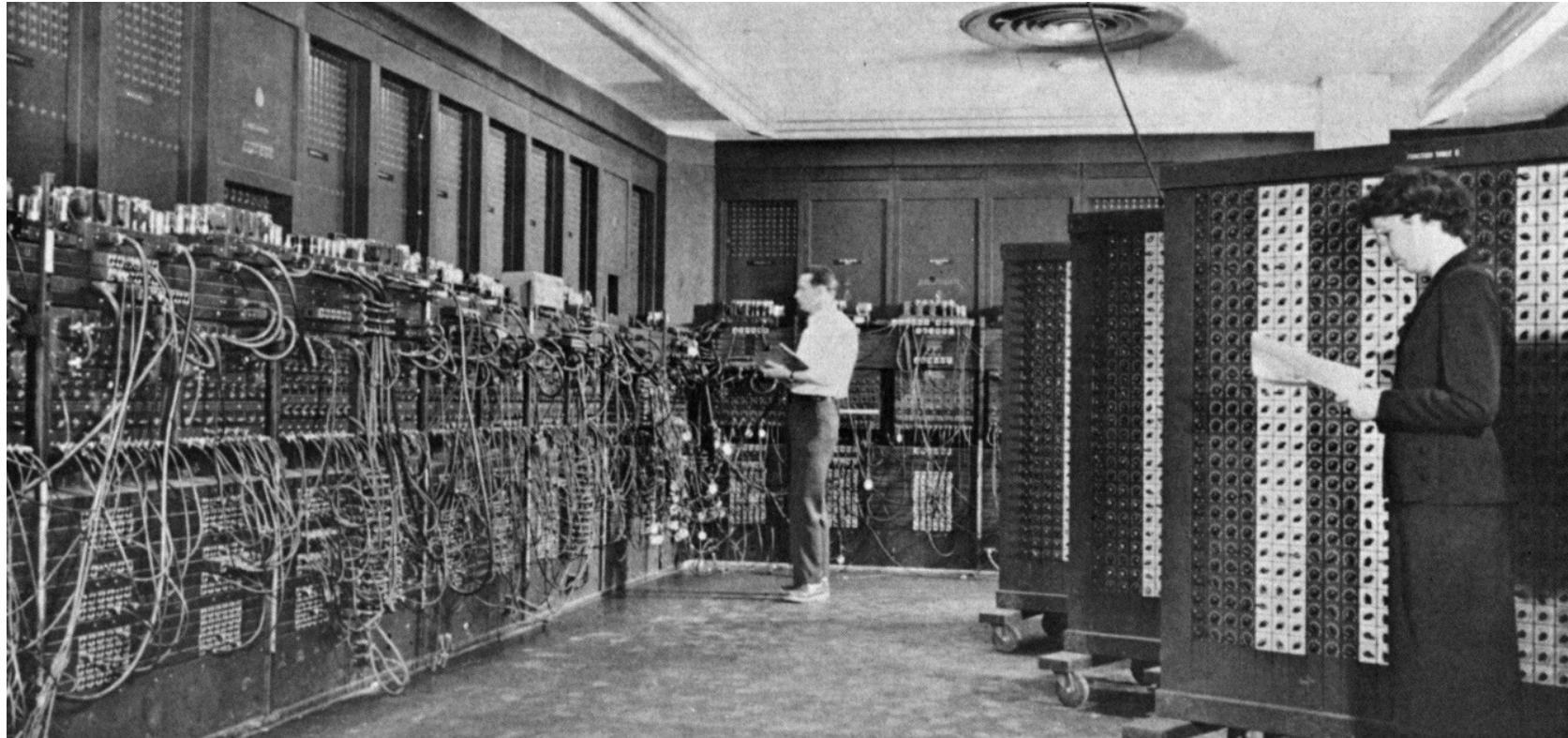


1944 – IBM Harvard Mark-I

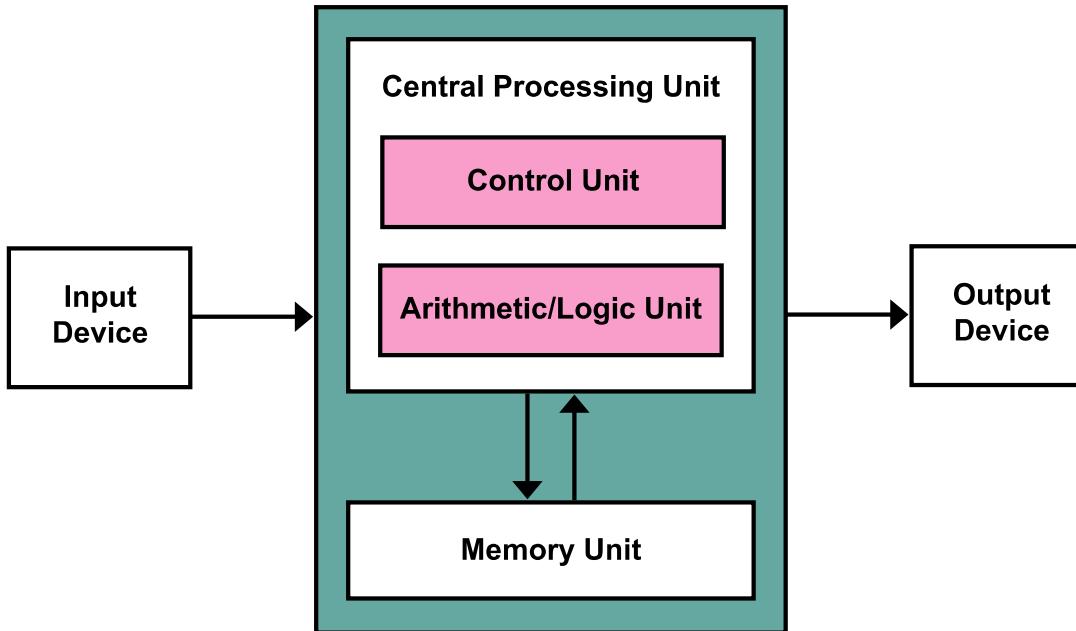


1946 – ENIAC:

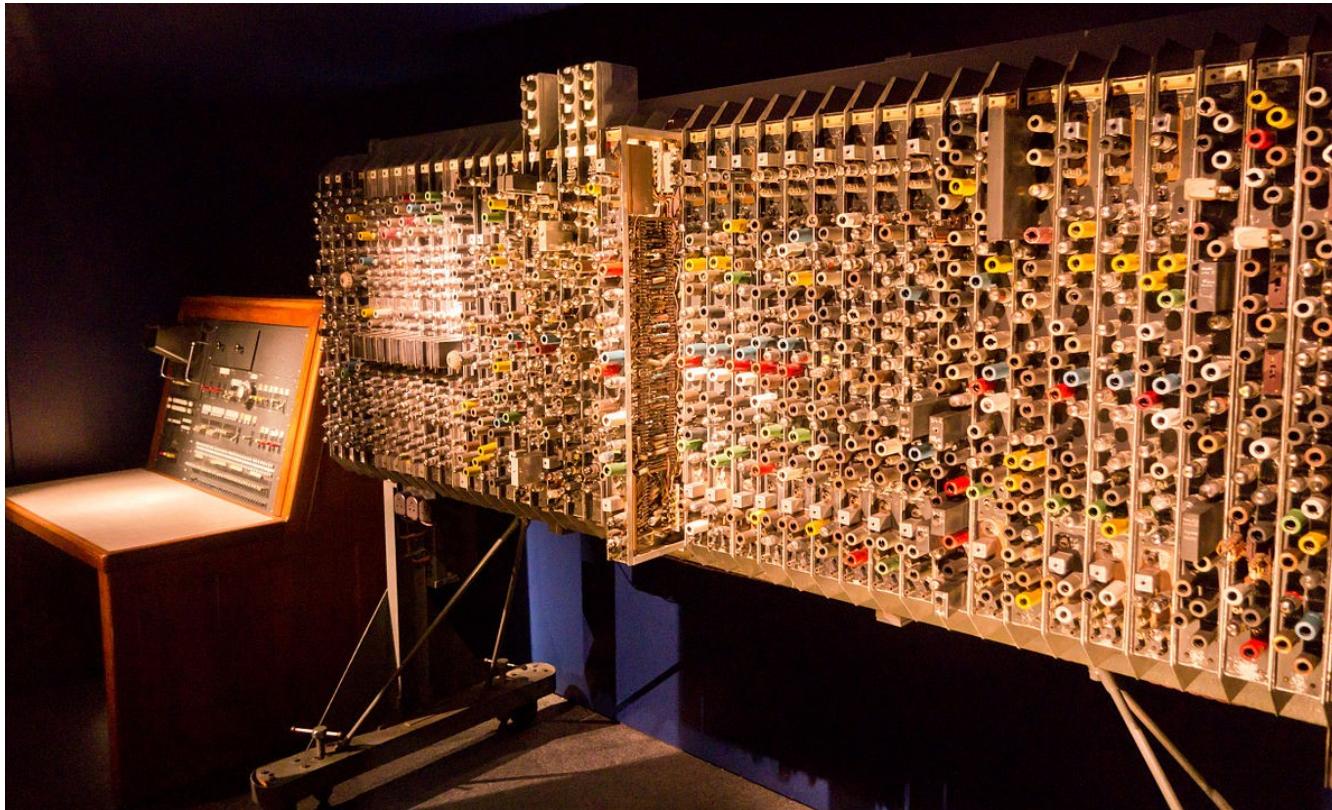
Electronic Numerical Integrator And Computer



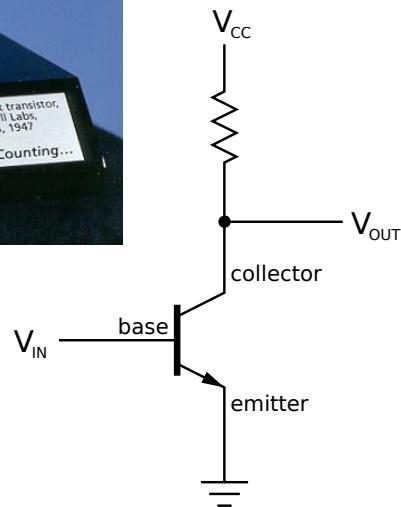
1945-1947 - Stored Program Computer or Von Neumann architecture



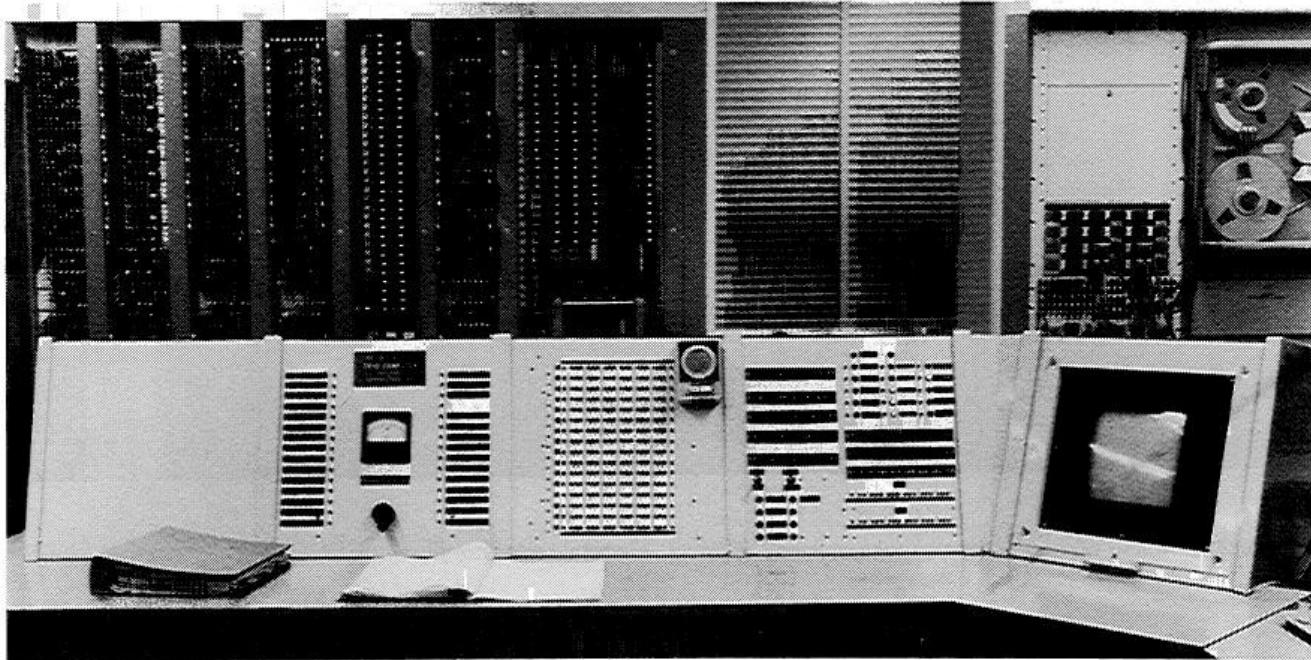
1946 – ACE : Automatic Computing Engine



1947 - Invention of the Transistor

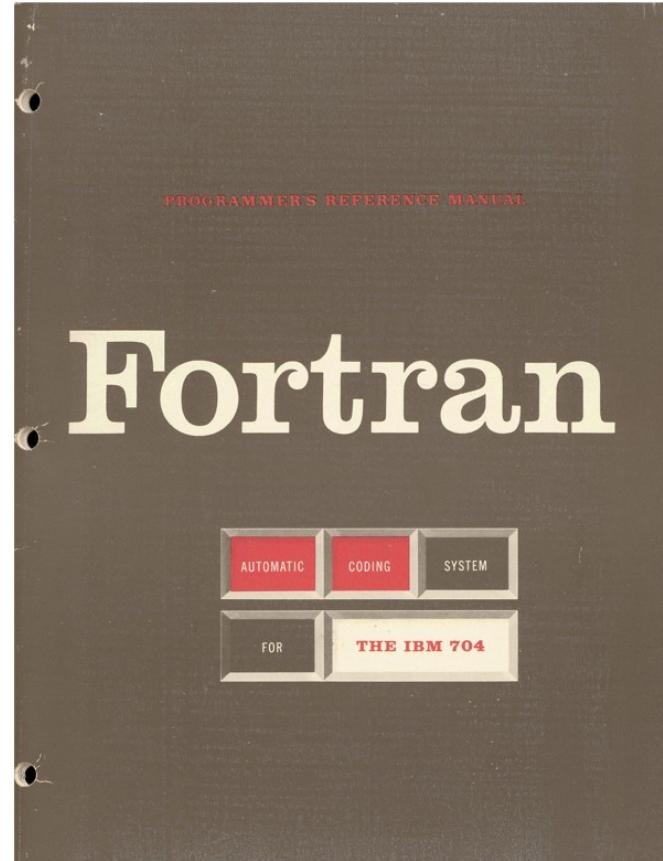


1956 - MIT TX-0



1957 - FORTRAN language

```
C AREA OF A TRIANGLE WITH A STANDARD SQUARE ROOT FUNCTION
C INPUT - TAPE READER UNIT 5, INTEGER INPUT
C OUTPUT - LINE PRINTER UNIT 6, REAL OUTPUT
C INPUT ERROR DISPLAY ERROR OUTPUT CODE 1 IN JOB CONTROL LISTING
    READ INPUT TAPE 5, 501, IA, IB, IC
501 FORMAT (3I5)
C IA, IB, AND IC MAY NOT BE NEGATIVE
C FURTHERMORE, THE SUM OF TWO SIDES OF A TRIANGLE
C IS GREATER THAN THE THIRD SIDE, SO WE CHECK FOR THAT, TOO
    IF (IA) 777, 777, 701
701 IF (IB) 777, 777, 702
702 IF (IC) 777, 777, 703
703 IF (IA+IB-IC) 777,777,704
704 IF (IA+IC-IB) 777,777,705
705 IF (IB+IC-IA) 777,777,799
777 STOP 1
C USING HERON'S FORMULA WE CALCULATE THE
C AREA OF THE TRIANGLE
799 S = FLOATF (IA + IB + IC) / 2.0
      AREA = SQRT( S * (S - FLOATF(IA)) * (S - FLOATF(IB)) *
      + (S - FLOATF(IC)))
      WRITE OUTPUT TAPE 6, 601, IA, IB, IC, AREA
601 FORMAT (4H A= ,I5,5H B= ,I5,5H C= ,I5,8H AREA= ,F10.2,
      +           13H SQUARE UNITS)
      STOP
      END
```



1964 - BASIC language

```
10 INPUT "What is your name: ", U$  
20 PRINT "Hello "; U$  
30 INPUT "How many stars do you want: ", N  
40 S$ = ""  
50 FOR I = 1 TO N  
60 S$ = S$ + "*"  
70 NEXT I  
80 PRINT S$  
90 INPUT "Do you want more stars? ", A$  
100 IF LEN(A$) = 0 THEN GOTO 90  
110 A$ = LEFT$(A$, 1)  
120 IF A$ = "Y" OR A$ = "y" THEN GOTO 30  
130 PRINT "Goodbye "; U$  
140 END
```

The IBM Personal Computer Basic
Version C1.10 Copyright IBM Corp 1981

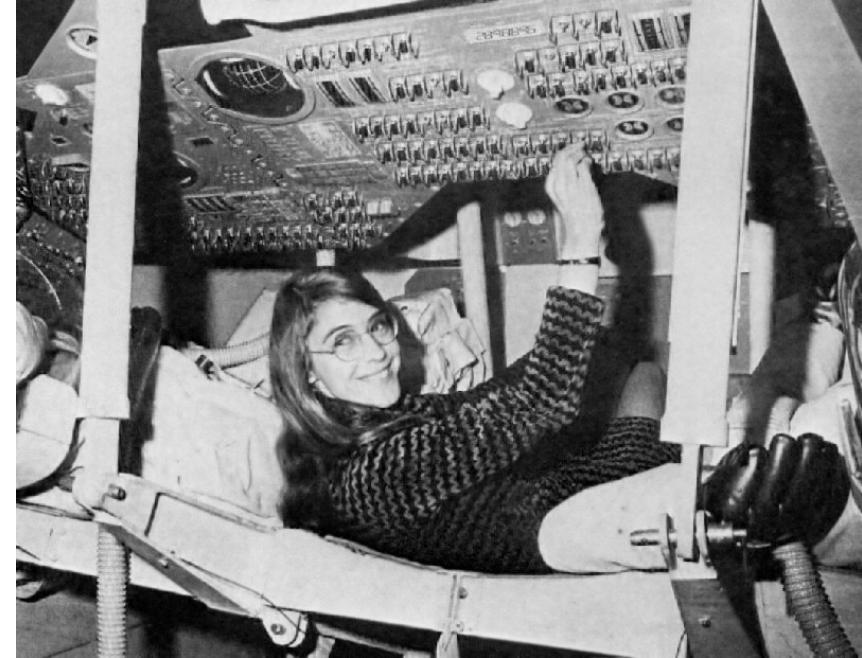
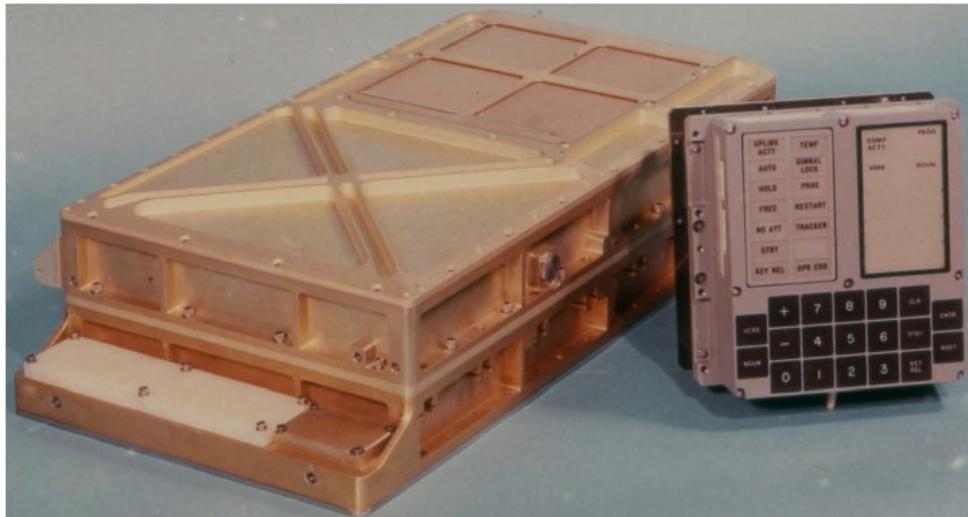
62940 Bytes free

Ok

-

1LIST 2RUN← 3LOAD" 4SAVE" 5CONT← 6,"LPT1 7TRON← 8TROFF← 9KEY 0SCREEN

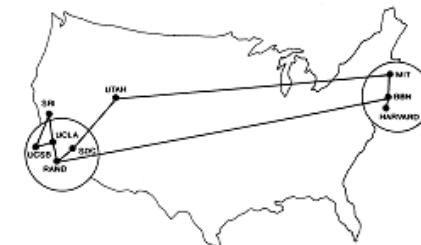
1966 - Apollo Guidance Computer



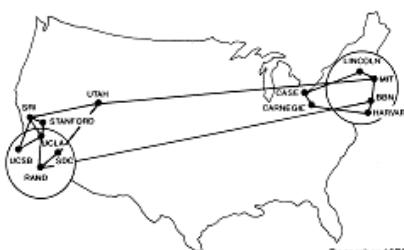
1969 - ARPANET



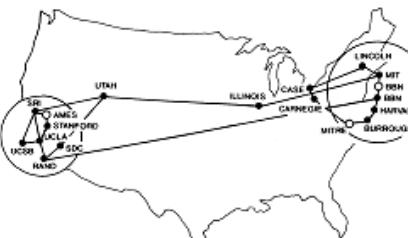
December 1969



June 1977



December 1970



September 19



August 1972



June 18

1969 - PASCAL language



1970 - Kenbak-1



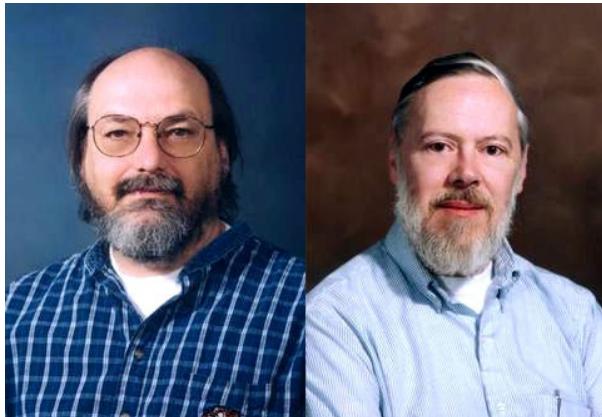
1970 - UNIX operating system

UNIX®
00011110 00011110 00011110 00011110 00011110 00011110 00011110



1972 - C language

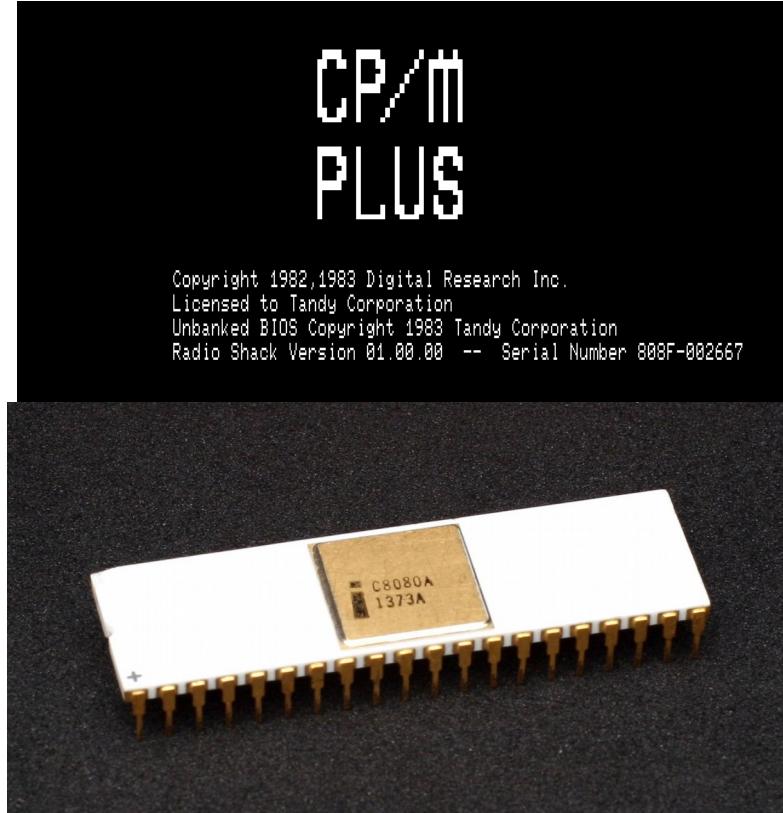
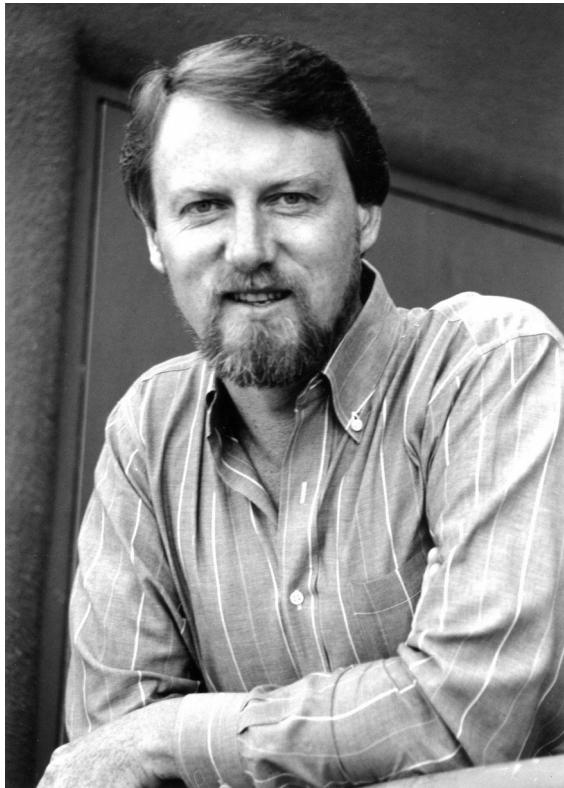
THE
C
PROGRAMMING
LANGUAGE



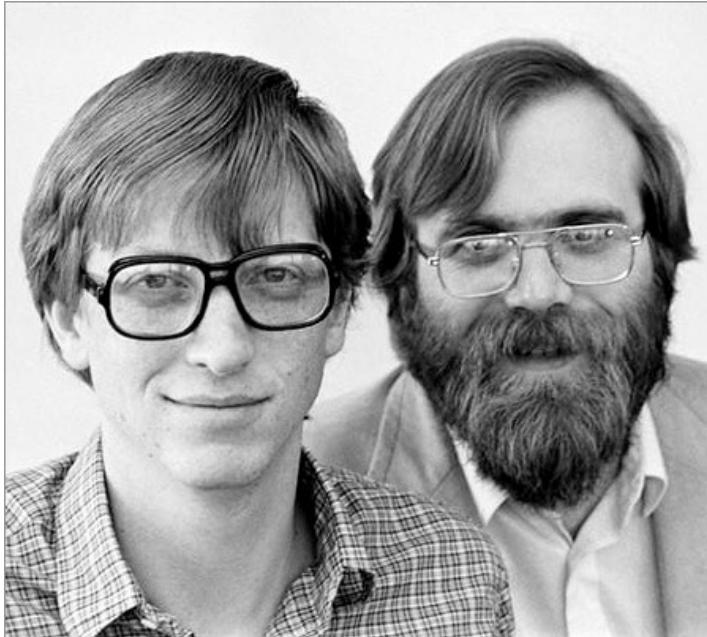
1973 - Xerox Alto



1974 - Intel 8080 & Founding of Digital Research

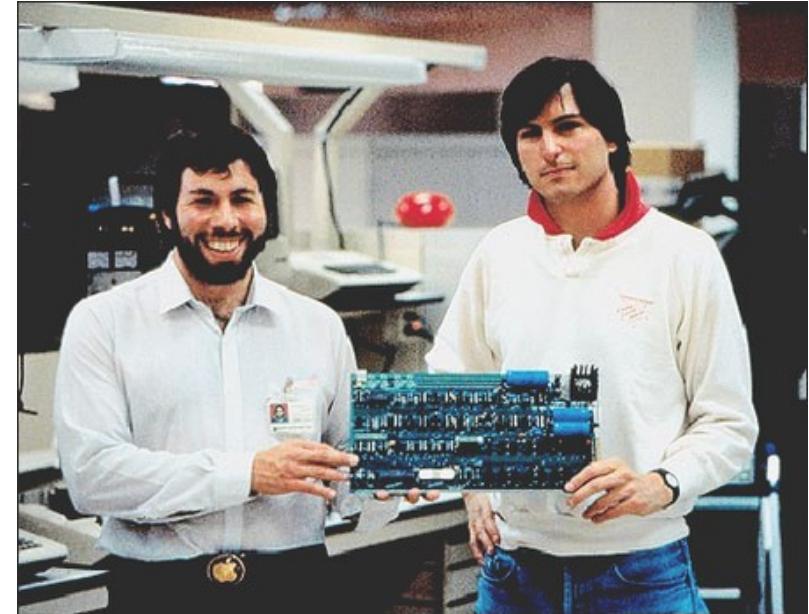


1975 - Founding of Microsoft



MICROSOFT

1976 - Apple-I



1977 - Commodore PET



1977 - Apple-II



1977 - TRS-80



1981 - IBM PC 5150



1981 – MS-DOS



1981 - Xerox Star



1983 - Apple Lisa



1983 - Compaq Portable PC



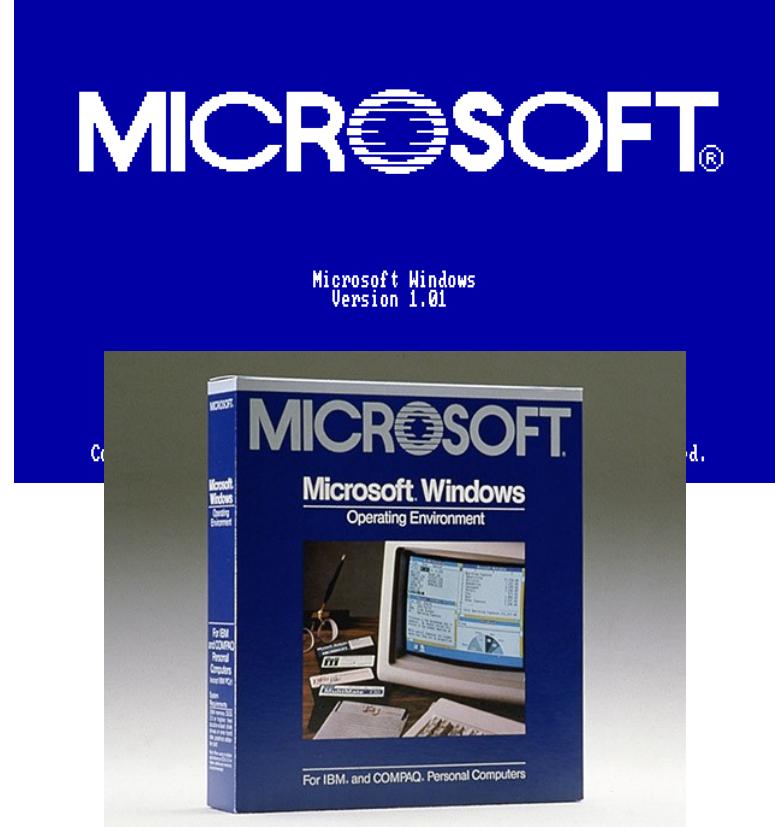
1983 - GNU Project



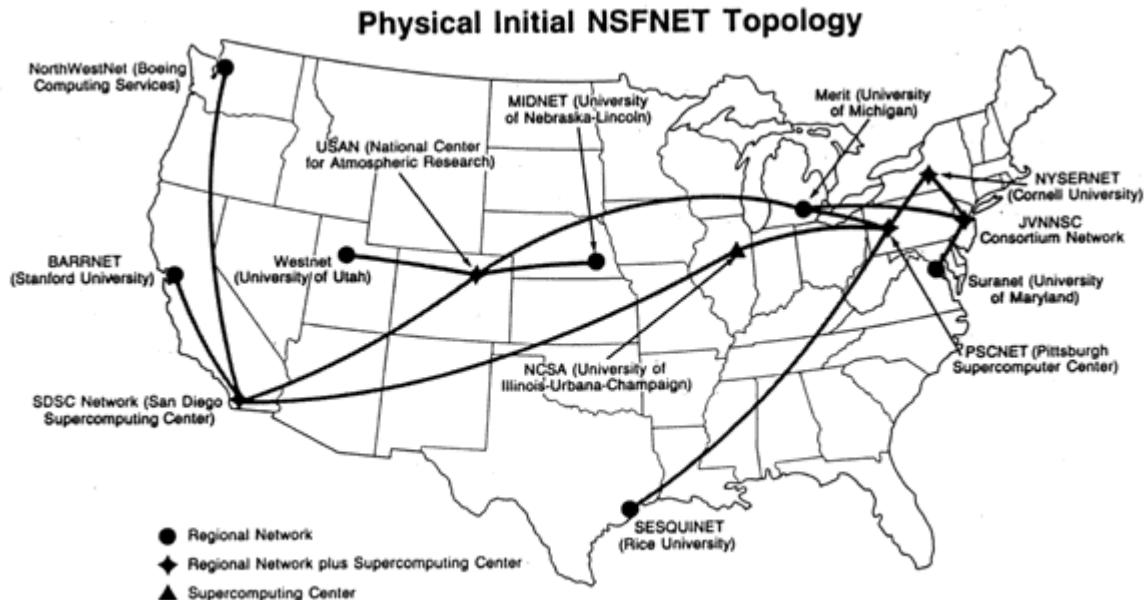
1984 - Apple Macintosh



1985 - Microsoft Windows 1.0



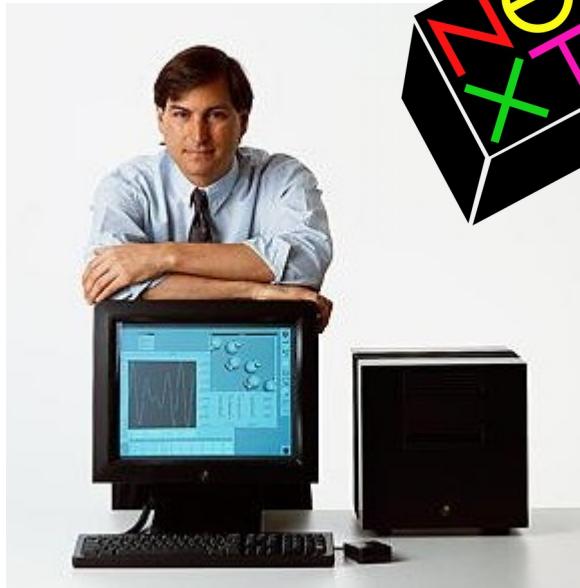
1986 - NSFNET



NSFNET

Center for Cartographic Research and Spatial Analysis, Michigan State University, 2/88

1988 - NeXT Computer



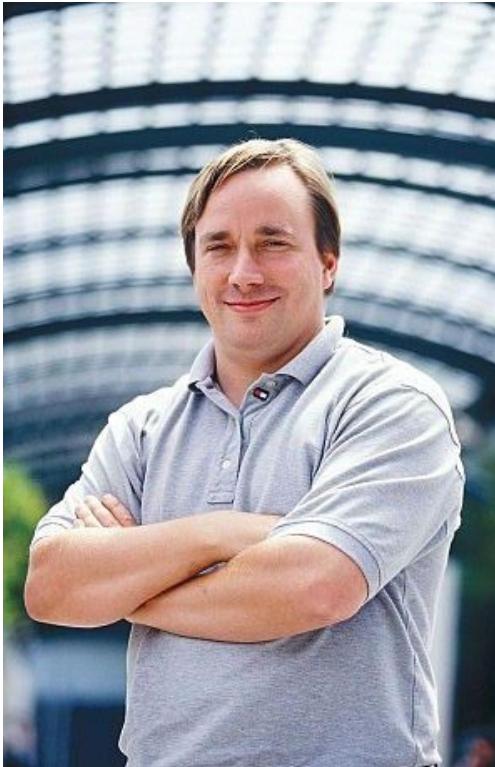
1989 - Prince of Persia video game



1990 – CERN-NET & World-Wide-Web



1991 - Linux Kernel



1993 - DOOM FPS game



1990s - Rise of the Internet & World-Wide-Web



سؤال ؟

