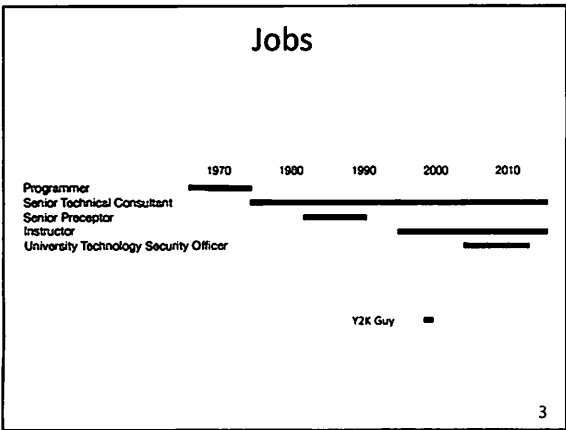


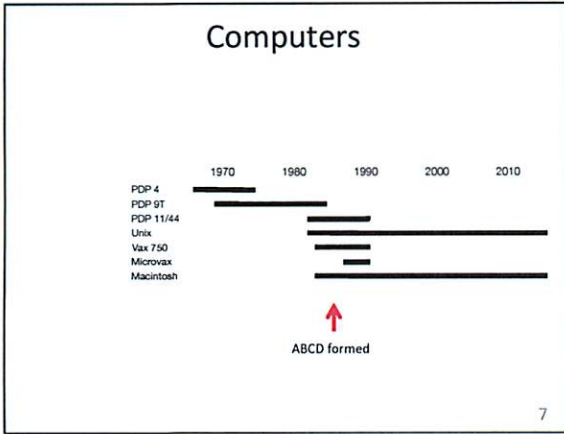
sob@harvard
&
Harvard Technology
2/14/66 – 7/1/16

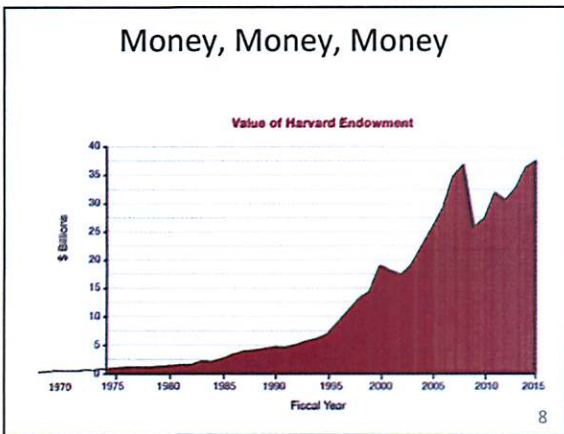
ABCD 12/11/2015

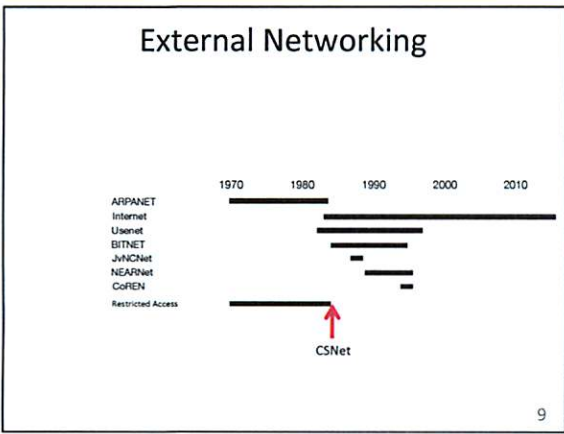
Timelines

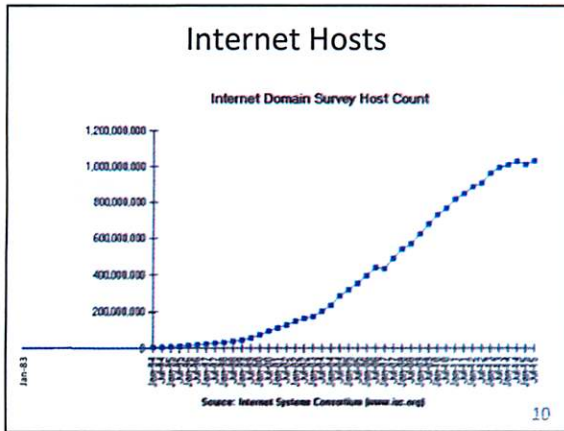
2











Harvard's Ivory Tower

11



The View from the Ivory Tower



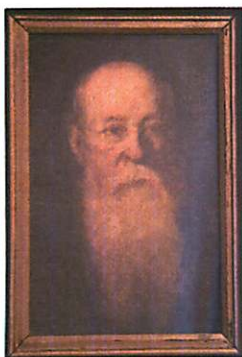
13

SOB in about 1970



14

Inspiration?



15

About 1999



16

Center for Cognitive Studies



Jerome Bruner



B.F. Skinner



S.S. Stevens



George Miller



Roger Brown

17

Subjects



18

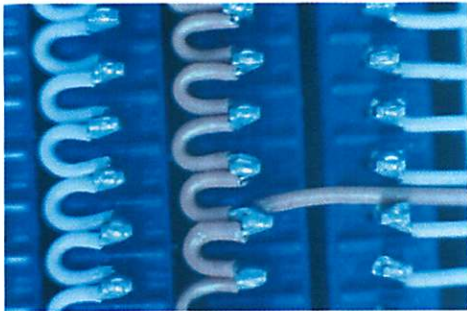
PDP-4



4 K words (later 8K)
0.04 mips max
fantastic display

1966
19

Labor Intensive



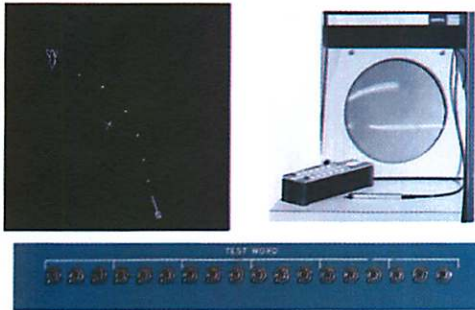
20

PDP-4 Delay Line



21

Space War



22

PDP-9T and me

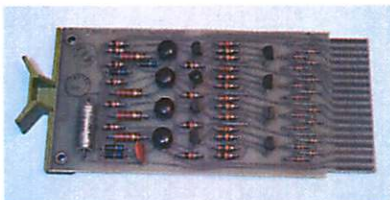


32K words
Memory mapped
2 M word hard disk
0.3 mips

~1977

23

PDP-9T "Flip Chip"



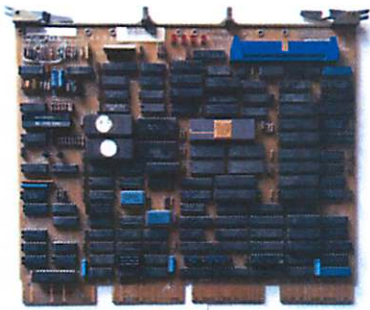
24

PDP 11/44



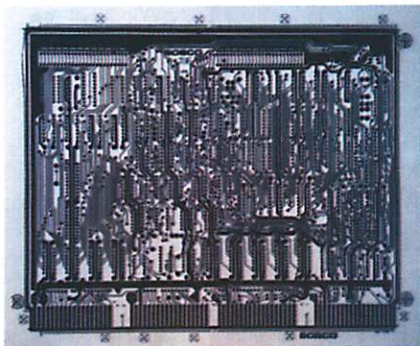
~1982
25

PDP-11/44 Disk Controller



26

PDP-11/44 General Interface



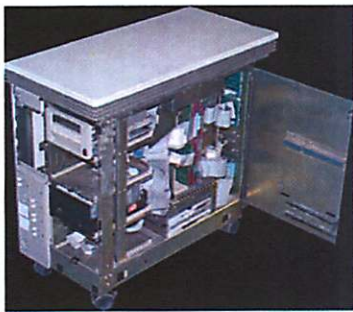
27

128K Mac



Fall
1983
28

Microvax II



~1986
29

Line Printer Reality



30

Music @ CBL



31

Computer-based Lab (CBL)

32

CBL

- Center for Cognitive Studies evolved into the Computer-Based Lab (CBL)
- Supported Psychology & Social Relations Departments
- Became a general research facility for graduate and undergraduate students
- Provided general word processing services (for sale)
- Specialized in multi-lingual editing, printing and typesetting

33

Greek and Middle English

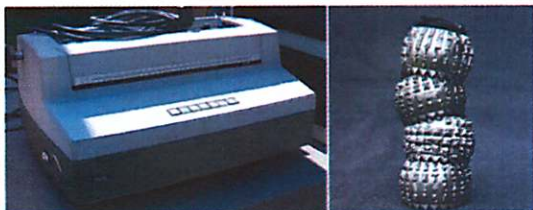
Ἄνεμος μοι ἔνευε, Μάρτος, πλάτρουτον, ὅς μοι ἐπέπεσε
 κλέγγυα, ἐπεὶ Τρωεὺς ἰσθμὸν ἀπολείψων ἔπειτα·
 καλλὴν δ' ἀνδράσων ἰδὲν ὄρατα καὶ νόον ἔργων,
 ἀνέμωτος ἦν τὰ φρένα καὶ νόστον ἰσχυρῶν.
 ὄλλ' ὄλλ' ἄς ἑτάροισι ἰπποκόμοισι, ἰεμένωσι, ἀπὸρ
 αἰδέον γυρ ἀφειρήσων ἀποσπασίαν ἄλοισιν,
 νόστον, οἱ κατὰ βολῆς Ἰθάκην Ἰθάκην
 φέβων· αἰετὰρ δὲ τοῖσιν ἀφίετα νόστον ἔπειτα,
 σὺν ἰσχυρῶν γέ, θεῶ, θεῶν, ἀπὸρ καὶ φῶν.

When that April with his shoures scoote
 The droughte of March hath perced to the route,
 And bathed every veyne in swich licour
 Of which vertu engendred is the flour;
 When Zepherus eek with his swete breath
 Impressed hath in every foll and heeth,
 The tendre croppes, and the yonge sonne
 Hath in the Ram his halve cours yronne,
 And smale fowles maken melodye,
 That steppen al the night with open yei
 (So priketh hem nature in his croppes).—
 Thanne longen folk to seen straunge strondes,
 And palmes for to seken straunge strondes,
 To ferre halwes, kowthe in sondry londes;
 And specially from every shires ende
 Of Engelond to Caunterbury they wende,
 The hooly blisful martir for to seke,
 That hem hath holpen whan that they were

Multi Lingual Editor - MLE
 (Replaced by Macs)

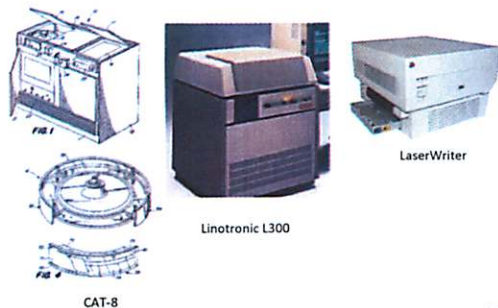
34

Typesetters



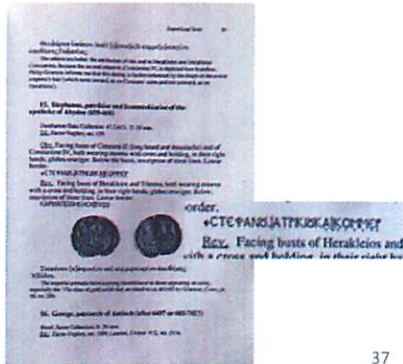
35

Phototypesetters



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Example



37

Classics Shelf List



38

Central IT @ Harvard

39

Harvard Computing Center

1962 *Office for Information Technology* Mostly not research support
Mostly not Mac support

1972 University Information Systems

1970 - 1978 @MIT

1996 HARVARD UNIVERSITY Information Technology


2011

40

Life outside of Harvard

41

Lightship Productions



42

Boston Tea Party



1967

43



1970

44

RayProcessor



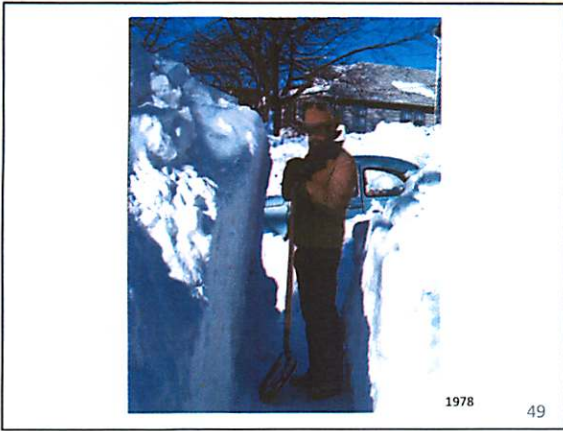
1983

45

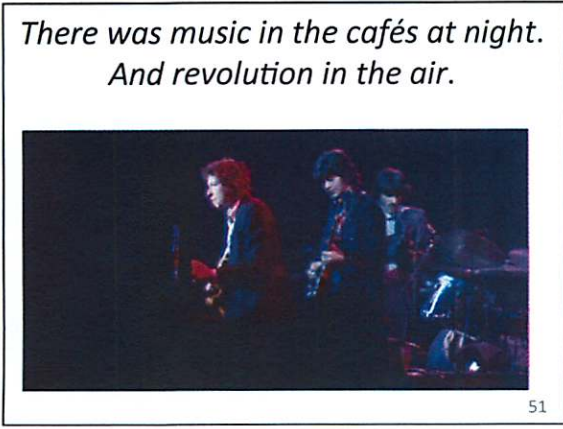


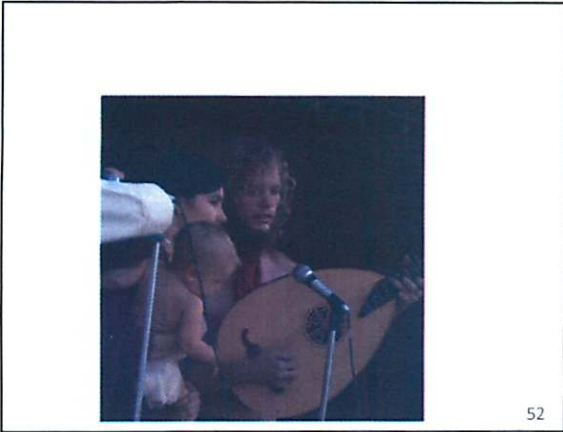















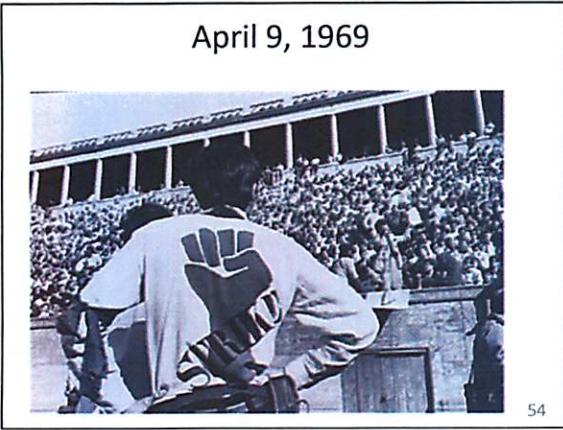
52

Club 47, Inc.

Nov. 6 Geoff Muldaer
 Mitch Greenhill
 7 Charles River Valley Boys
 8 Host w/Taj Mahal
 9 Rev. Gary Davis
 10 three experimental films by
 Stan Brakhage
 11 Judy
 12 Roderick
 14 Ray Pong
 Eric Andersen
 15 Host w/Ray Pong
 16 Tom Rush
 17 Amy Boutsie & Jerry Edwards - Jazz Duo
 18 The Image Theatre Workshop
 19 Charles River Valley Boys

53



54

April 15, 1970

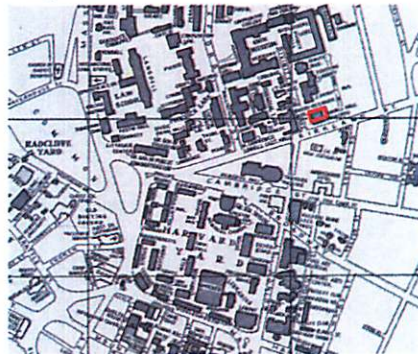


55

Harvard's Layout

56

Physical Environment - Then



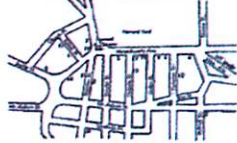
1962

57

Harvard Sq.

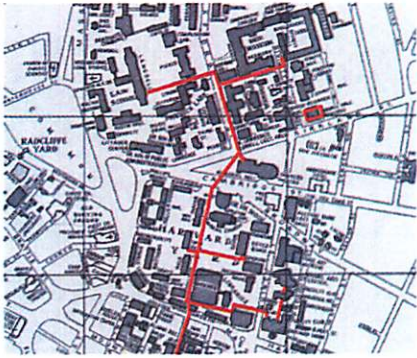


Bookstore Locations



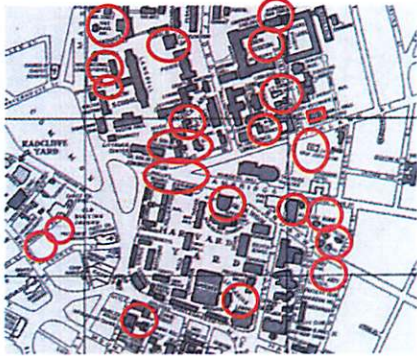
58

Steam Tunnels



59

Some Construction Since Then



60

