Metapnor Machines

Past & Future of HCI

Columbia Group for Experimental Methods In the Humanities @dennistenen

- Literary scholar / theorist
- Historian of media and technology
- A recovering software developer (WebTV and Windows XP)

Forthcoming: Plain Text: The Poetics of Human-Computer Interaction

Who am I?

the plan today

```
10 min a brief history of HCI
25 min Direct interfaces?
10 min Space alterior to mimesis
15 min Questions
```

Your World, Bruce Schreiner (Norton, 2015)
Obfuscation: A User's Guide for Privacy and Protest, Finn Brunton &
Helen Nissenbaum (MITP, 2015)
Future Crimes: Everything Is Connected, Everyone Is Vulnerable and
What We Can Do About It, Marc Goodman (Doubleday, 2015)

Data and Goliath: The Hidden Battles to Collect Your Data and Control

Exposed: Desire and Disobedience in the Digital Age Hardcover,

Bernard Harcourt (HUP, 2015)

Information, Frank Pasquale (HUP, 2015)

No Place to Hide: Edward Snowden, the NSA, and the U.S. Surveillance State, Glenn Greenwald (Picador, 2015)

Dataclysm: Who We ArA (WhS ETA & Some 'Color Color Co

The Black Box Society: The Secret Algorithms That Control Money and

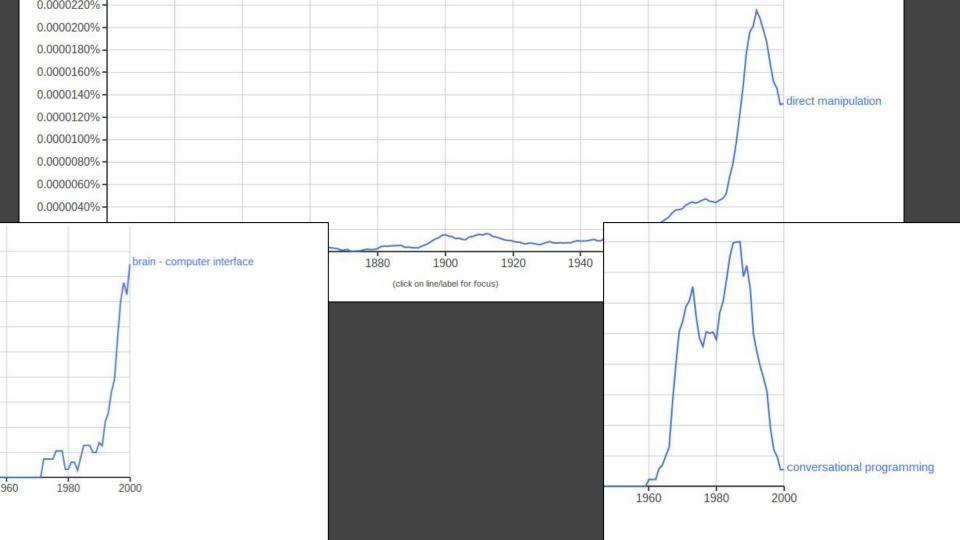
HOW DID WE GET HERE?*

* Where is here?

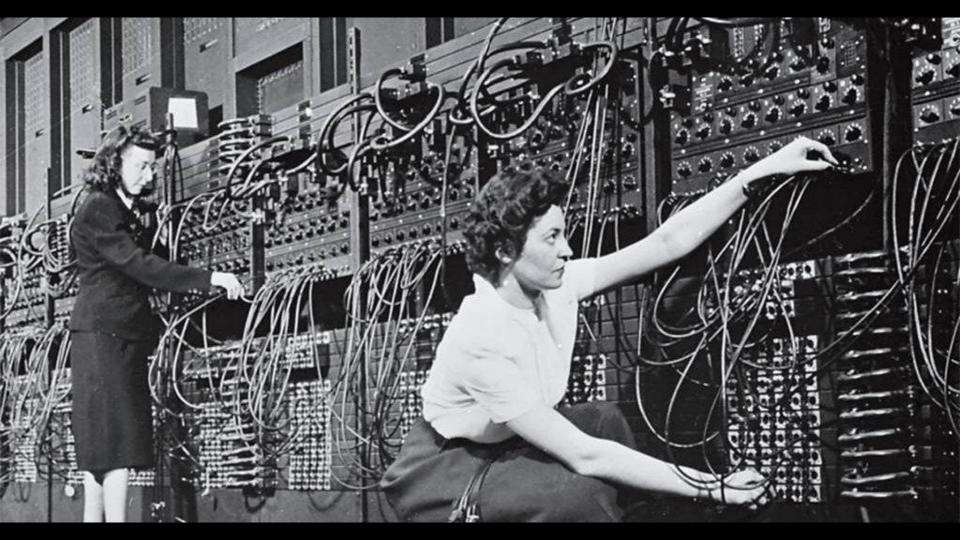
** Who are the we?

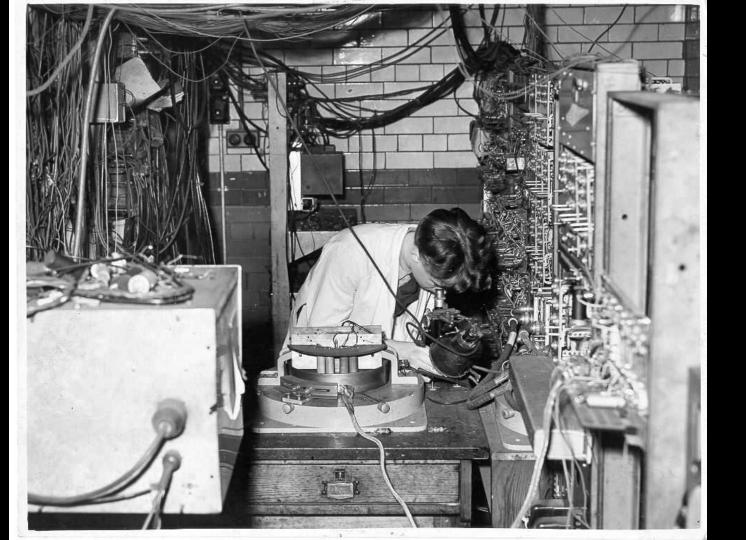
image icon symbol character data record text inscription interface

Where is it?









quite willing to accept the imitation game as a test. The game (with the player B omitted) is frequently used in practice under the name of *viva voce* to discover whether some one really understands something or has 'learnt it parrot fashion'. Let us listen in to a part of such a *viva voce*:

Interrogator: In the first line of your sonnet which reads 'Shall I compare thee to a summer's day', would not 'a spring day' do as well or better?

Witness: It wouldn't scan.

Interrogator: How about 'a winter's day' That would scan all right.

Witness: Yes, but nobody wants to be compared to a winter's day.

Interrogator: Would you say Mr. Pickwick reminded you of Christmas?

Witness: In a way.

Interrogator: Yet Christmas is a winter's day, and I do not think Mr. Pickwick would mind the comparison.

Witness: I don't think you're serious. By a winter's day one means a typical winter's day, rather than a special one like Christmas.

And so on. What would Professor Jefferson say if the sonnetwriting machine was able to answer like this in the viva voce? I do not know whether he would regard the machine as 'merely

conversation

Vol. LIX. No. 236.]

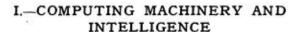
[October, 1950

MIND

A QUARTERLY REVIEW

OF

PSYCHOLOGY AND PHILOSOPHY



By A. M. TURING

1. The Imitation Game.

In Narrow Corridor scrawled the inscription, "Fee fie foe foo" [sic].

>5

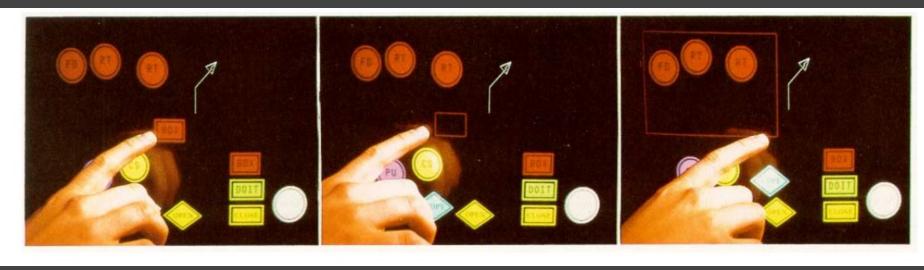
In Narrow Corridor
You are in a long, narrow corridor
stretching out of sight to the west. At
the eastern end is a hole through which
you can see a profusion of leaves.

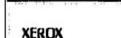
>n
You can't go that way.

```
support/conferences/ipam-april-2016/
nothing added to commit but untracked files present (use "git add" to track)
[~/Documents/plain-text]$ git add -A
                                                                               [master]
[~/Documents/plain-text]$ git commit -m "add images"
                                                                               [master]
[master 2f9f4fe] add images
 2 files changed, 455 insertions(+)
 create mode 100644 support/conferences/ipam-april-2016/45-min-direct-manipulation.md
 create mode 100644 support/conferences/ipam-april-2016/test.pdf
[~/Documents/plain-text] git push
                                                                               [master]
Enter passphrase for key '/home/denten/.ssh/id rsa':
Counting objects: 10, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (7/7), done.
Writing objects: 100% (7/7), 660.88 KiB, done.
Total 7 (delta 2), reused 0 (delta 0)
remote: This repository moved. Please use the new location:
          https://github.com/dh-notes/plain-text.git
To git@github.com:xpmethod/plain-text.git
   8407241..2f9f4fe master -> master
[~/Documents/plain-text] vim 0-intro.md
                                                                               [master]
Error detected while processing /home/denten/.vimrc:
line
      68:
E518: Unknown option: regexpendine=2
vim-pandoc: 'bibliographies' and 'command' modules require vim >= 7.4 and have been disa
bled.
Press ENTER or type command to continue
[~/Documents/plain-text]$
                                                                               [master]
```



"direct manipulation"





Sexample ViewPoint Document

6085 Workstation

To make it easy to compose text and graphics, to do electronic filing, printing, and mailing all at the same were stated on, enquires a revolution any user in terface do sign.

Sit-map display. Each of the pixels on the 10° serves, is mapped to a bit in memory; thus, arbitrarity complex the ages can be displayed. The 60 98 displayed is fast; and graphics as they will be printed. In addition, familiar office hipst such as desuments, felders, fille drawers and la-backets are pertrayed as recognizable images.

The moure - A unique pointing device that allows the user to quickly select any text, graphic or office deject on the display.

See and Point

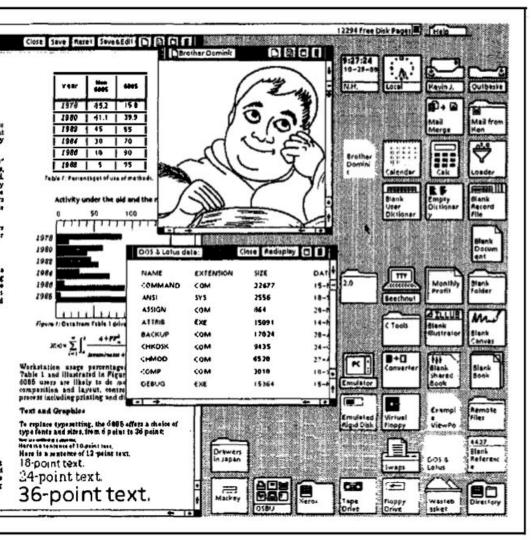
All functions are visible to the user on the keyboard or on the series. The user does filling and retrieval by selecting them with the mouseard touching the MOVE, CDV, OSLETE OF ADPIATES command hops. Text and graphles are edited with the same keys.



Shorter Production Times

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Experience at Xerox with pre-totype work stations has shown shorter preduction times and thus lower costs, as a function of the percentage of use of the workstations. The following equation can be used to express this:





Speaking of Science

A paralyzed woman flew an F-35 fighter jet in a simulator — using only her mind



By Abby Phillip March 3, 2015 Follow @abbydphilip



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3 Grisly details emerge after woman's head found in recycling bin



4 \$250 million, 300 scientists and 40 labs: Sean Parker's revolutionary project to 'solve' cancer



The New york Times



in, Helps alyzed Man Regain ntrol of Hand



Warriors Set Record With 73rd Win of



Is Gigi Gorgeous America's Next Top



What to Look For in the Democratic Debate



Bernie Sanders, in New York, Presses Fight Against 'Status Quo'



Chip, Implanted in Brain, Helps Paralyzed Man Regain Control of Hand

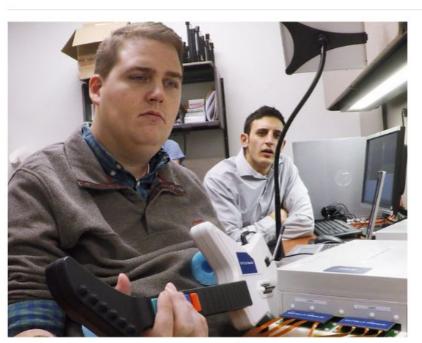
By BENEDICT CAREY APRIL 13, 2016











Ian Burkhart, who is paralyzed, playing a guitar video game as Nick Annetta, an electrical engineer at Battelle Memorial Institute in Columbus, Ohio, watches, The Ohio State Wexner Medical Center and Battelle

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index | this * | brain-computer interfaces?
icon
                       direct manipulation
symbol | star | conversational
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@dennistenen THE ENI