

## Making the Computer Personal: Reconstructing Domesticity for the Information Age



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## Theme of Paper

- How did people decide they needed a computer in their home?
  - Cultural work of reconstruction
- Looked at another way
  - What kind of a home would need a computer?



## America in the mid-1970s

- A time of uncertainty and turmoil in the US
  - Energy shocks
  - Loss of faith in government
  - End of the Vietnam war
  - Economic and wage stagnation
- Within the home
  - Rapid rise in divorce rates
    - 2.3% in 1978, vs 0.5% in 1950s
  - More drugs and sex among teenagers
  - More women working outside the home
    - 51.5% in 1980 vs 37.7% in 1960



## 1: Getting Personal

## Home Computer Concept

- Predates microprocessor
  - Originates as "home terminal" concept
  - Solution looking for a problem
- "If she can only cook as well as Honeywell can compute..."
  - 1969 minicomputer in drag
  - sold in Neiman Marcus catalog
  - around \$10,000



## The First Microcomputers

- MITS Altair
  - Launched 1975
  - Supplied in kit form
- Limited use
  - But expandable...



## Users and Producers Blur?

- Best known user role – hobbyist designer
  - Steve Wozniak, Apple II Designer
- Mythology of
  - Geeks
  - Garages
  - Genius



## Initial Constituency

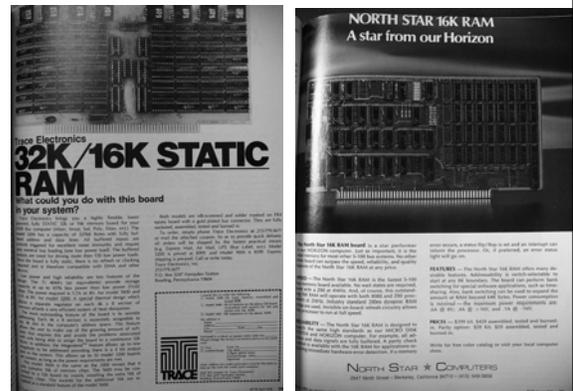
- People who
  - Knew how to solder
  - Understood electronics
  - Wanted to play with a computer
- Served by Byte magazine
  - 88,000 circulation by spring 1977



## Before & After



## Selling to Enthusiasts



## Attempted Domestication



← "The Noval 760... appears in its natural setting: unfolded in a living room, office, or den. The console... folds into the desk... so that the Noval 760 blends into the décor as a desk-like woodtone piece of furniture."

## Potted Plants are Common Motif



## Tokenism I: The Rainbow Alliance



"People from every walk of life are adding iCOM Floppy Disks to their microcomputers..."

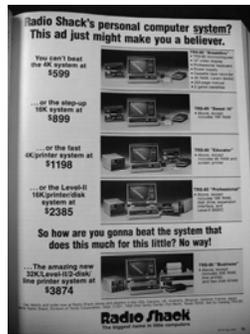
## Tokenism II: The Babe

"combines the 8080A CPU with a front panel featuring ultra-convenient octal keyboard and digital LED readout"



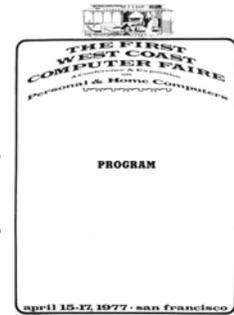
## Pre-assembled Machines

- Follow by around 1977
  - Apple II
  - Radio Shack TRS 80
  - Commodore Pet



## Computer Fairs

- Develop very rapidly
  - "Computer Faire" in Bay Area is most famous
  - But hundreds of others nationally
- Boundary between visitors and exhibitors fluid in 1970s
  - Booths are basic and cheap
  - Enthusiasts on both side of the trestle table



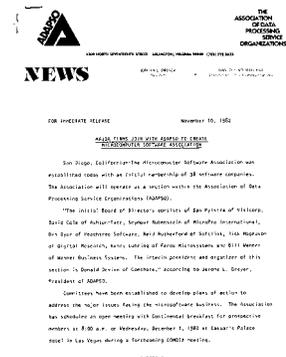
## Computer Dealers

- An estimated independent 600 stores by 1976
  - Plus 5,000 Radio Shacks
- Functions
  - Sales
  - Tech support
  - Configuration
  - Training
  - Community hub
  - Some offer own software items



## Trade Groups

- Trade groups established for
  - Hardware producers & Distributors
    - Microcomputer Industry Association
  - Software producers
    - Software Publishers Association
    - ADAPSO Microcomputer Software Section
  - National Computer Retailers Association



## User Groups

- Distributed all over the country
- Activities include
  - Training sessions
  - Organizing exhibitions and shows
  - Creating user-contributed software libraries
  - Publishing newsletters



## Newsletters

- Published by
  - User groups
  - Dealers
  - Computer manufacturers
- Contents include
  - Hints and tips
  - News and announcements
  - Program listings
- Some expand into commercial magazines



## Different Construction for Different Groups

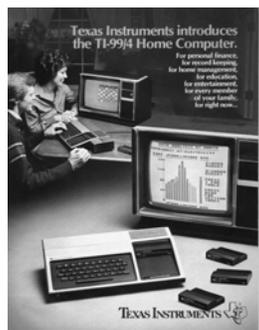
- The PC is cultural reconstructed to fit in different social spaces
  - School
  - Hospital
  - Laboratory
  - Office
  - Home
- Specialized
  - Software firms
  - Hardware add-on vendors
  - Newsletters, user groups, etc
  - Networks within existing organizations



## 2: Buying and Selling the Home Computer

## Home Computer Hardware

- Separate species, existed
  - from about 1978 to 1990
- Much cheaper than "business" PCs
  - Sold in large numbers
  - Better sound and graphics
  - Fewer peripheral options
- Connect to domestic TV
  - Often used with standard cassette player rather than disks



## Home Computer Sales

- Sold in department and discount stores
- By 1983
  - Several models under \$100
  - Around 5 million units sold annually in US

Commodore 64 sells 30 million worldwide, 1982-early 1990s







## Limited Range of Applications

- Same topics appear repeatedly in early (1977-1982) programs
  - Type-in from magazines
  - Printed in books
  - Sold on cassette
  - Used in computer advertisements
- Few seem particularly compelling
  - Reflect shared assumptions about home and computer's place in it

## Gender Roles

**Introducing Apple II.**

The home computer that's ready to work, play and grow with you.

Apple Computer Inc.

## Centerpiece of the nuclear family



## The Magic Machine

“Mum laughed, and said the magic machine can start by cooking dinner....”

Byte Press, 1979

**A Colorful Introduction to Computers**

Here's a fun and educational coloring book to introduce your home computer to the younger members of your family. The Magic Machine explores the excitement and wonder of computers from a young child's point of view. Through colorful scenes and fun coloring projects, you'll discover all the basic questions children ask about the magic machines that are changing lives in our homes in our growing numbers, and discover how they're changing lives in our world and other funny images that enter from our imaginations.

Package complete with 16 sets of 40 pages. The Magic Machine will help children appreciate computers even before they are old enough to begin using them.

Byte Press, 1979

- Radio Shack, 1983
- “The Computer That Said NO To Drugs”



## Husband

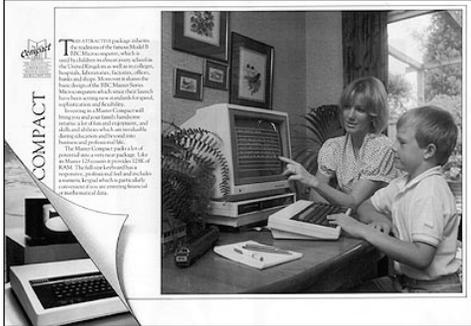
- Masculine
  - Tax preparation
  - Financial calculations
  - Checkbook balancing



## Wife

- Feminine
  - Recipe databases
  - Calorie counting
  - Knitting
  - Biorhythms
- This book included programs for
  - "Shopping"
  - "Pantry Inventory"
  - "Recipe"
  - "Chore reminder"



## Children

### Math Dice

- Educational applications
  - Maths drill
  - Geography quiz, etc.
- Programming



## 4: Conclusions

## The Broader Context

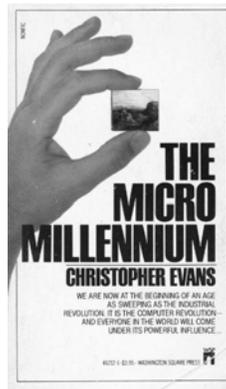
- Late 1970s also saw popularization of ideas of
  - Information technology
  - Information society/Post Industrial Society
  - Computer literacy
  - Microcomputer revolution

## The Third Wave

- Futurist Alvin Toffler
  - 1980, influential example of "information age" thinking



- Utopian best seller
  - Intelligent machines by early 1990s



## Computer Literacy

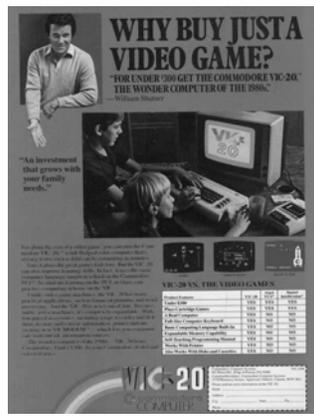
- A loaded term
- Assumed to require programming skills



Creative Computing, 1977

## It's Educational!

- Computers play games but are good for you too
- (Video clip: Commodore Job Interview)



## The Actual Use: Games?



## An Irony

- The success of the home computer hinged on idea of a "microcomputer society" changed beyond all recognition. Never happened.
- BUT, those involved in domesticating the computer were trapped in a 1950s sitcom vision of the perfect suburban family already fatally undermined by REAL social change.