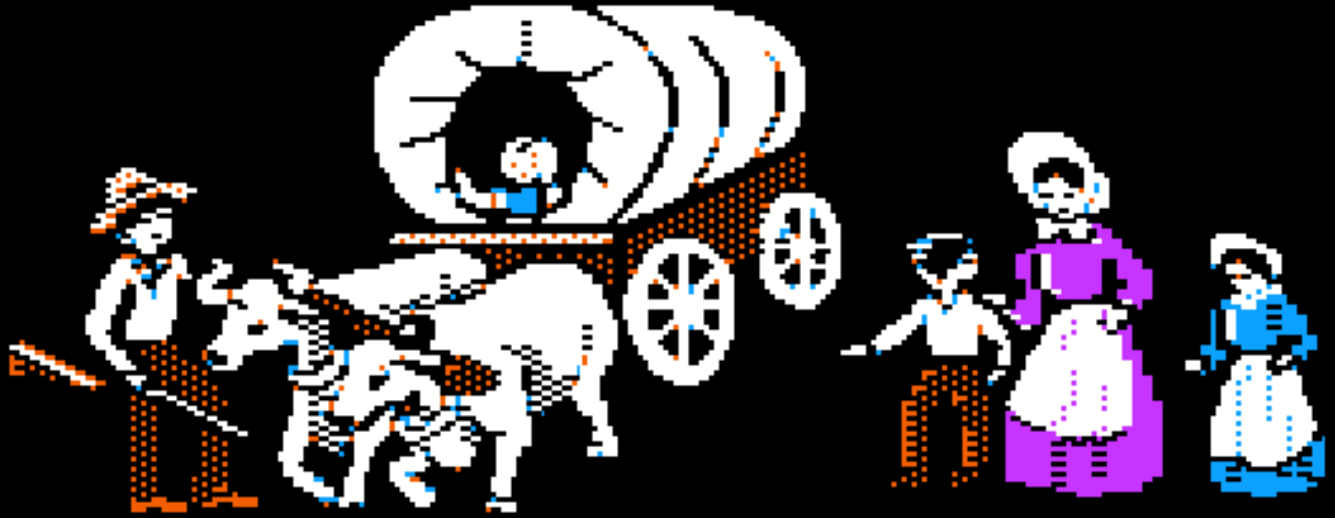
Off The Beaten Oregon Trail: An After-School Special



What are the first names of the four other members in your party?

1. SARAH
2. BRIAN
3. CHRIS
4. DENNIS
5. KEN

(Enter names or press Return)

Sarah W.

H-4

VOLTAGE-CURRENT-RESISTANCE

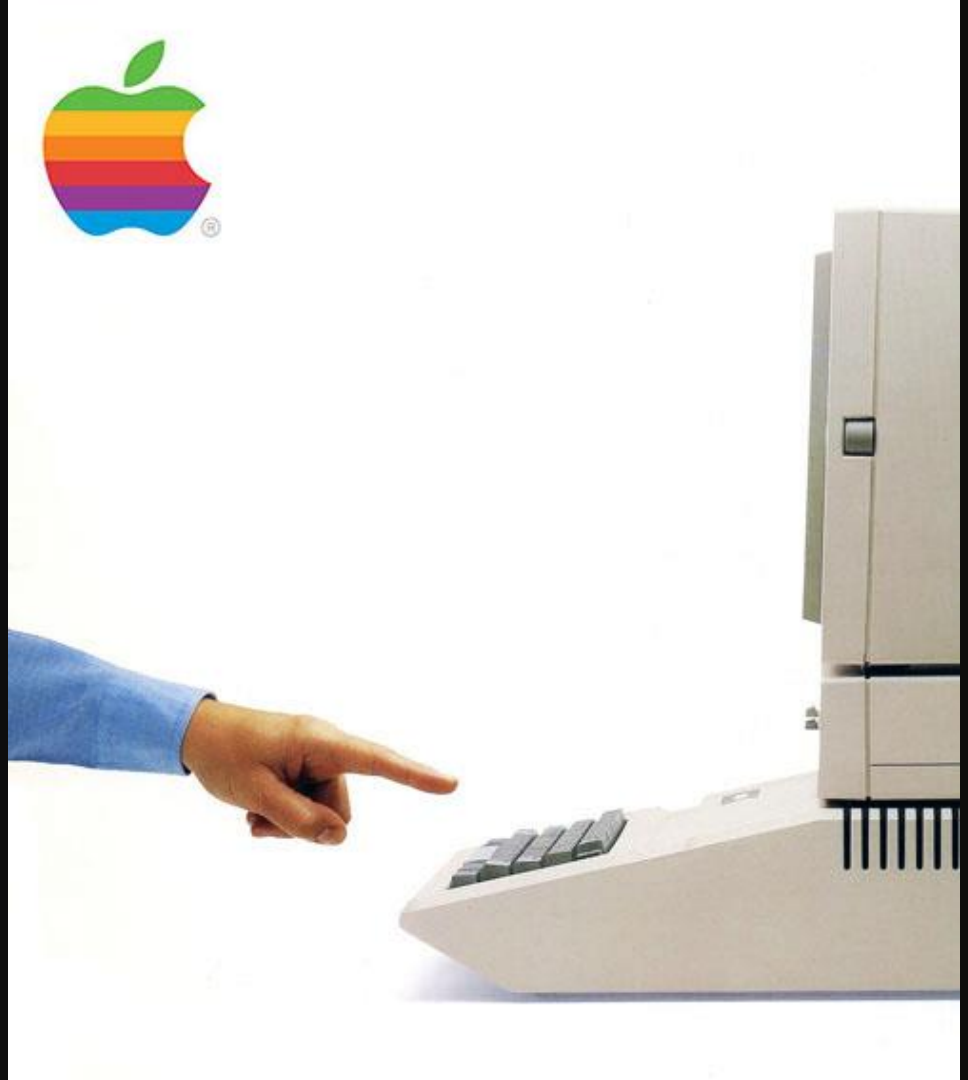
Lesson AEH-4A

DeVRY Technical Institute

4141 W. Belmont Ave., Chicago 41, Illinois

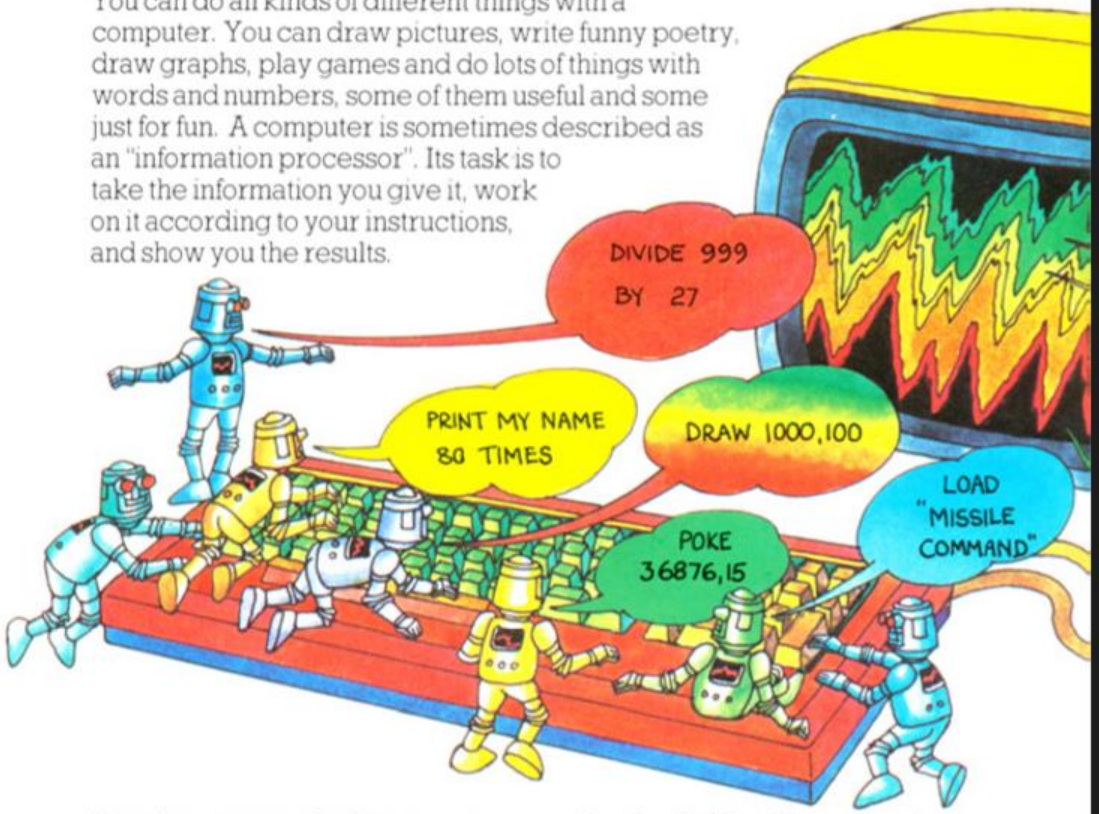
Formerly DeFOREST'S TRAINING, INC.

AEH-4A



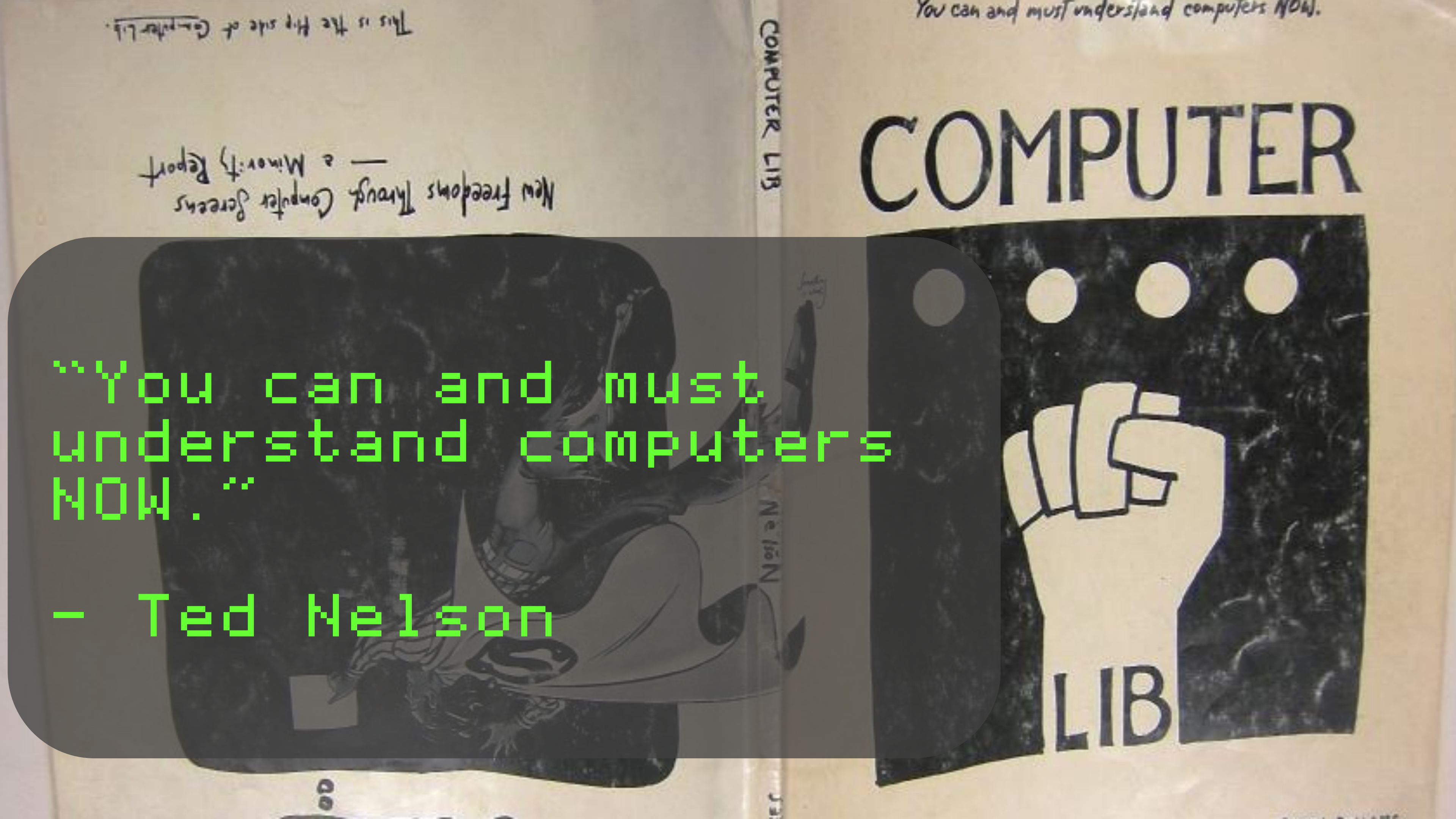
How a computer works

You can do all kinds of different things with a computer. You can draw pictures, write funny poetry, draw graphs, play games and do lots of things with words and numbers, some of them useful and some just for fun. A computer is sometimes described as an "information processor". Its task is to take the information you give it, work on it according to your instructions, and show you the results.



To make a computer do what you want you have to give it very precise instructions. A list of instructions for a computer is called a program* and the information you give the computer to work on is called data. The program has to be written in a language, such as BASIC, that the computer can understand, and it must follow all the rules of the language too.

A look at current instructional design and education trends through the lens of the Apple II



"You can and must understand computers NOW."

- Ted Nelson

the oregon trail

instructional computing courseware
for the **apple® II** computer

Original Learning Objectives:

(A Sampling)

Social Studies

After using this courseware, the student should be able to develop decision-making skills by learning to:

- consider alternative solutions;
- consider the consequences of each solution;
- make and justify decisions;
- act, based on those decisions

Interesting points about Oregon Trail

- Suitable for kids from grade school to high school
- Can be adapted with supporting activities for each age range
- Was originally presented as a "simulation"
- Is based on research

(cont...)

- The holy grail of instructional design is to get learners to remember something after they learned it.
- While the quality of what was specifically learned is debatable, many still remember this game DECADES later!

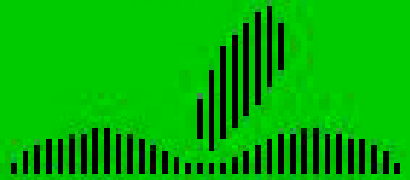
(cont…)

Name a current instructional tool or piece of software that does this…

Other Instructional Design Examples

Apple
Presents...
apple

Apple presents...

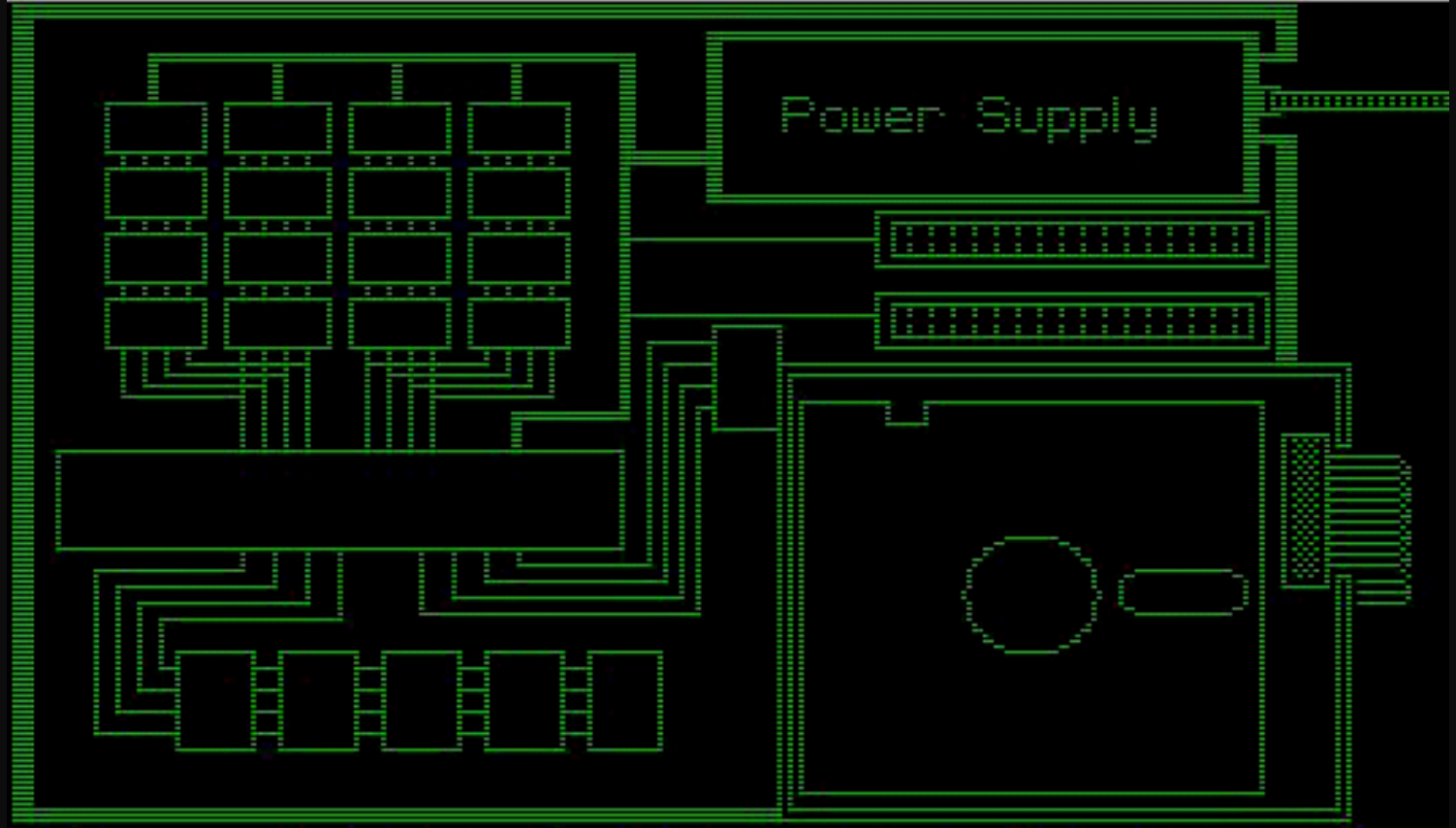


Apple Presents… apple

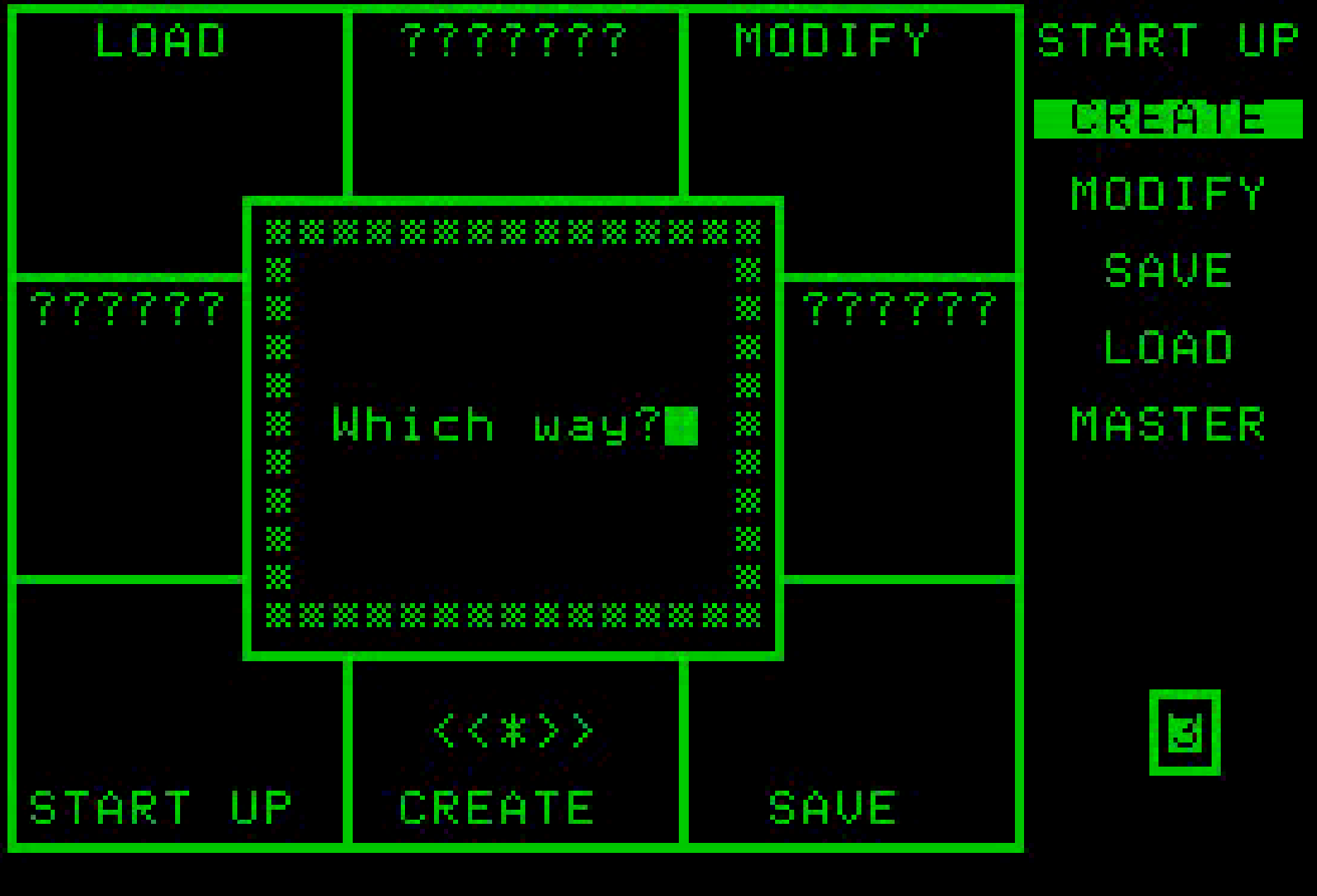
- Friendly, scaffolded introduction
- Introduces the hardware and software

AppleII - The Inside Story

- Infographics!
- Teaches with storytelling!
- Gamification!
- Formative and summative learning!



Sure. First, I put a startup disk in the disk drive and turned on the computer.


LOAD
??????
MODIFY
START UP
CREATE
MODIFY
SAVE
LOAD
MASTER
??????
??????
Which way?
<<*>>
START UP
CREATE
SAVE

Lemonade Stand

- Another simulation!
- Learn about entrepreneurship!
  - and economics
  - and capitalism!
  - and a teeny bit about the impact of weather on capitalism…

ON DAY 1, THE COST OF LEMONADE IS $.02

LEMONADE STAND 1 ASSETS $2.00

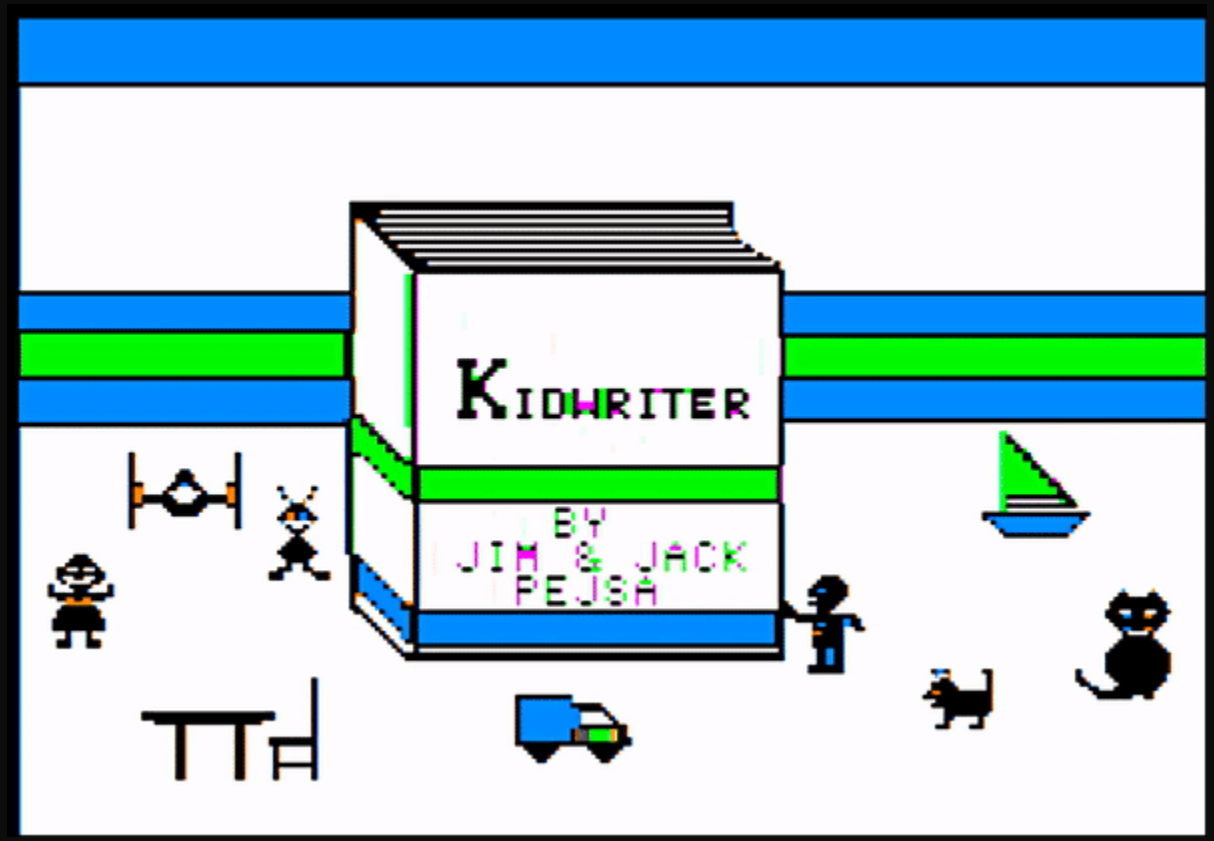
HOW MANY GLASSES OF LEMONADE DO YOU WISH TO MAKE ?15

```
$$ LEMONSVILLE DAILY FINANCIAL REPORT $$

    DAY 1                          STAND 1

   15   GLASSES SOLD
$.05   PER GLASS                INCOME $.75

   15   GLASSES MADE
   2    SIGNS MADE             EXPENSES $.60

                  PROFIT   $.15
                  ASSETS   $2.15

PRESS RETURN TO CONTINUE, ESC TO END
```

Spy's Adventures in N.America

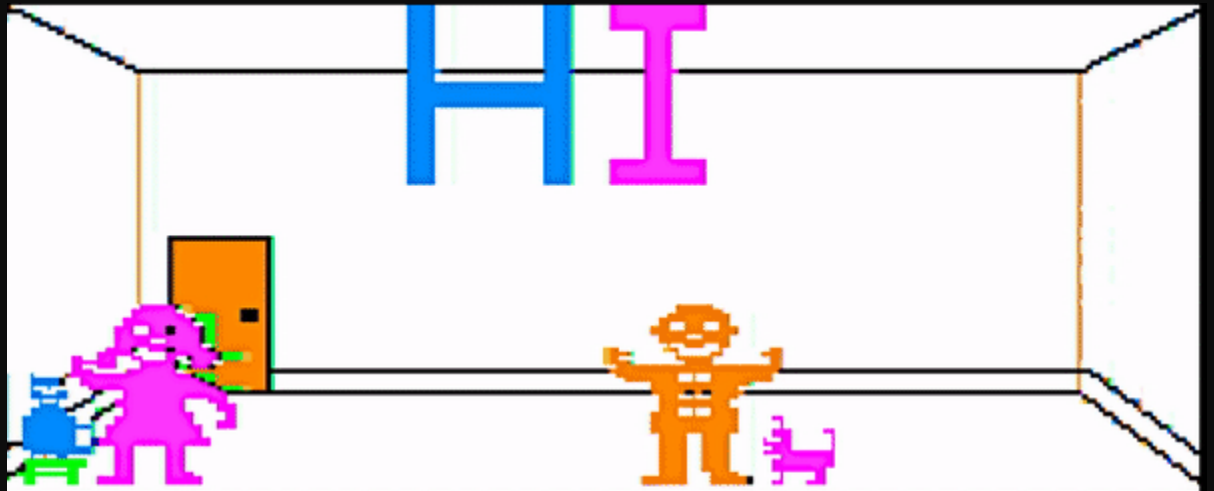
- Geography
- Deductive reasoning
- Learn about other places and cultures


Agent MARK: the Midwest
>Look here
River States
Northern Plains
Great Lakes States
Mountain States
Texas


KIDWRITER
BY
JIM & JACK
PEJSA

Kidwriter

- Creative writing for kids
- Associating pictures with stories
- Word processing skills
- Narrative sequencing



Once o'pon a time,a boy & a gril each had a pet. The girl had a cat,the boy had a dog. But what they didn't know was that their pets were magic! One day both of them wished to go in to space.

PRESS ANY KEY TO CONTINUE...

Brian Wiser

Brian Wiser's Memories of Apple II & Programming in School


You are now at the Kansas River crossing. Would you like to look around?
Date: May 20, 1848
Weather: hot
Health: poor
Food: 0 pounds
Next landmark: 0 miles
Miles traveled: 102 miles

You Have Died of Dysentery

The creation of

The Oregon Trail

– the iconic educational game of the 1980s

R. Philip Bouchard

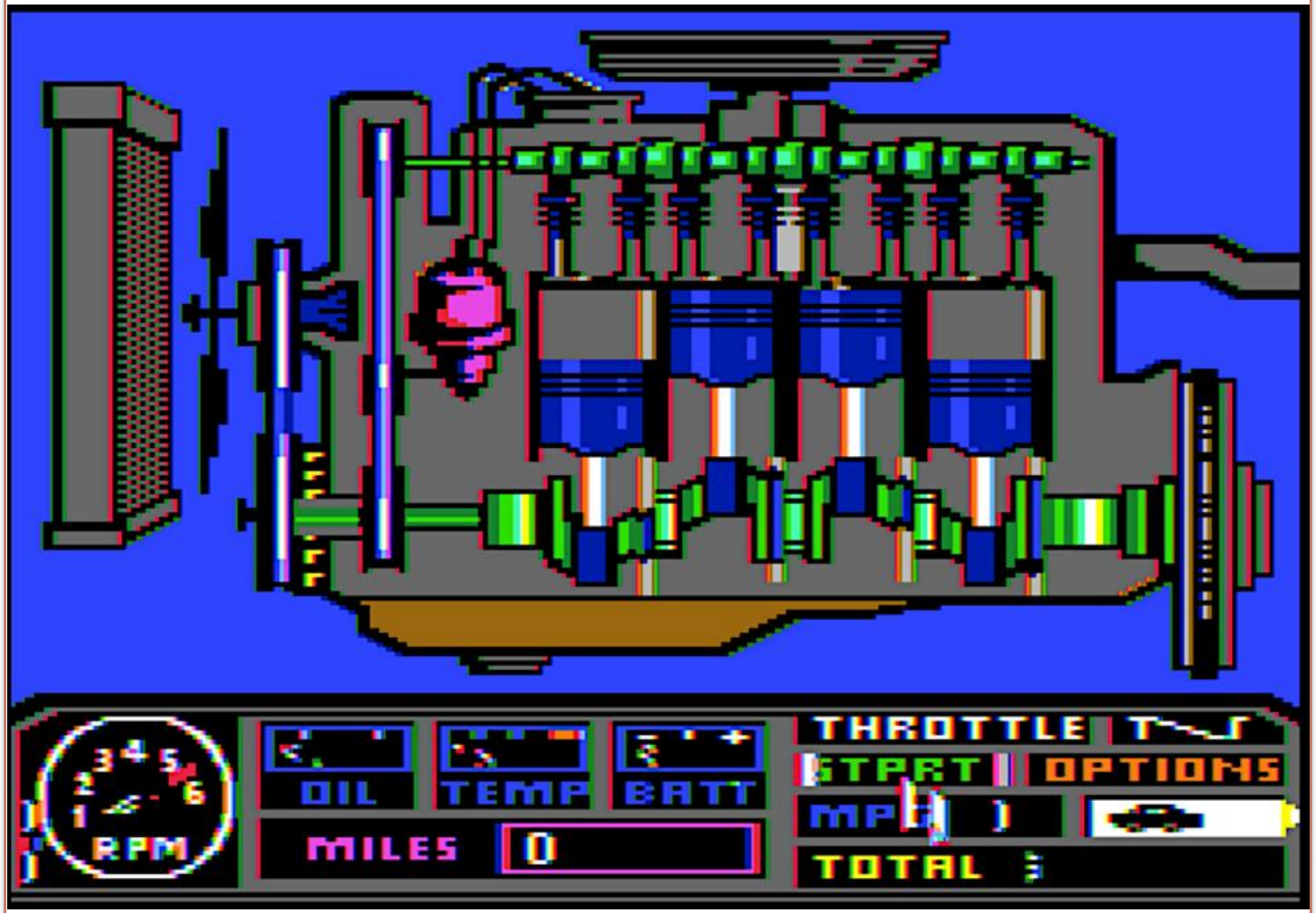

neo
SOFT
CBS
SOFTWARE
Dinosaur Dig
Put the EasyKey in place
and press the green START key.

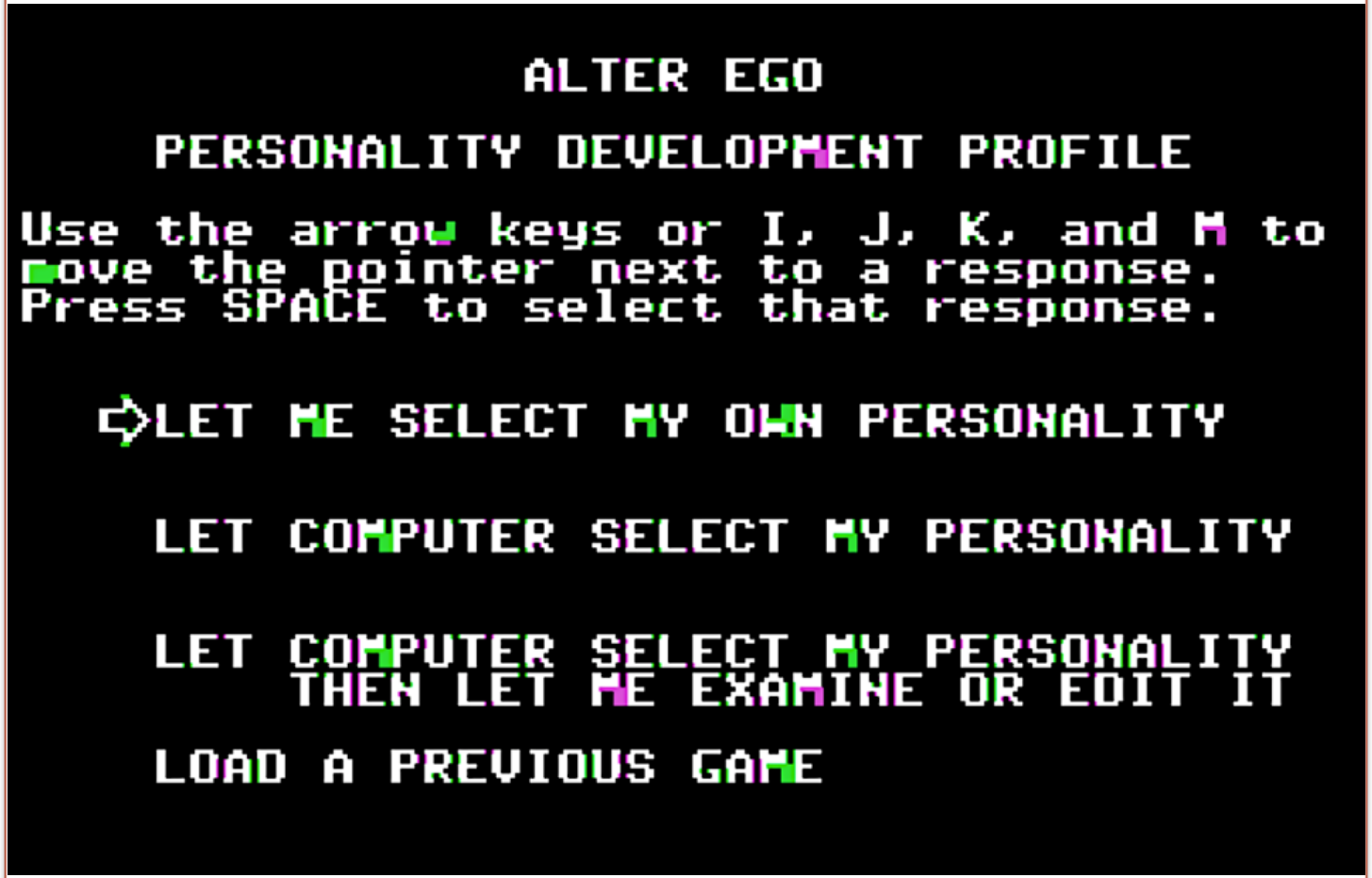
There were two types of dinosaurs. Ornithischian dinosaurs, with the bird hip, were plant eaters. Saurischians, the lizard-hipped dinosaurs, included both plant eaters and meat eaters.

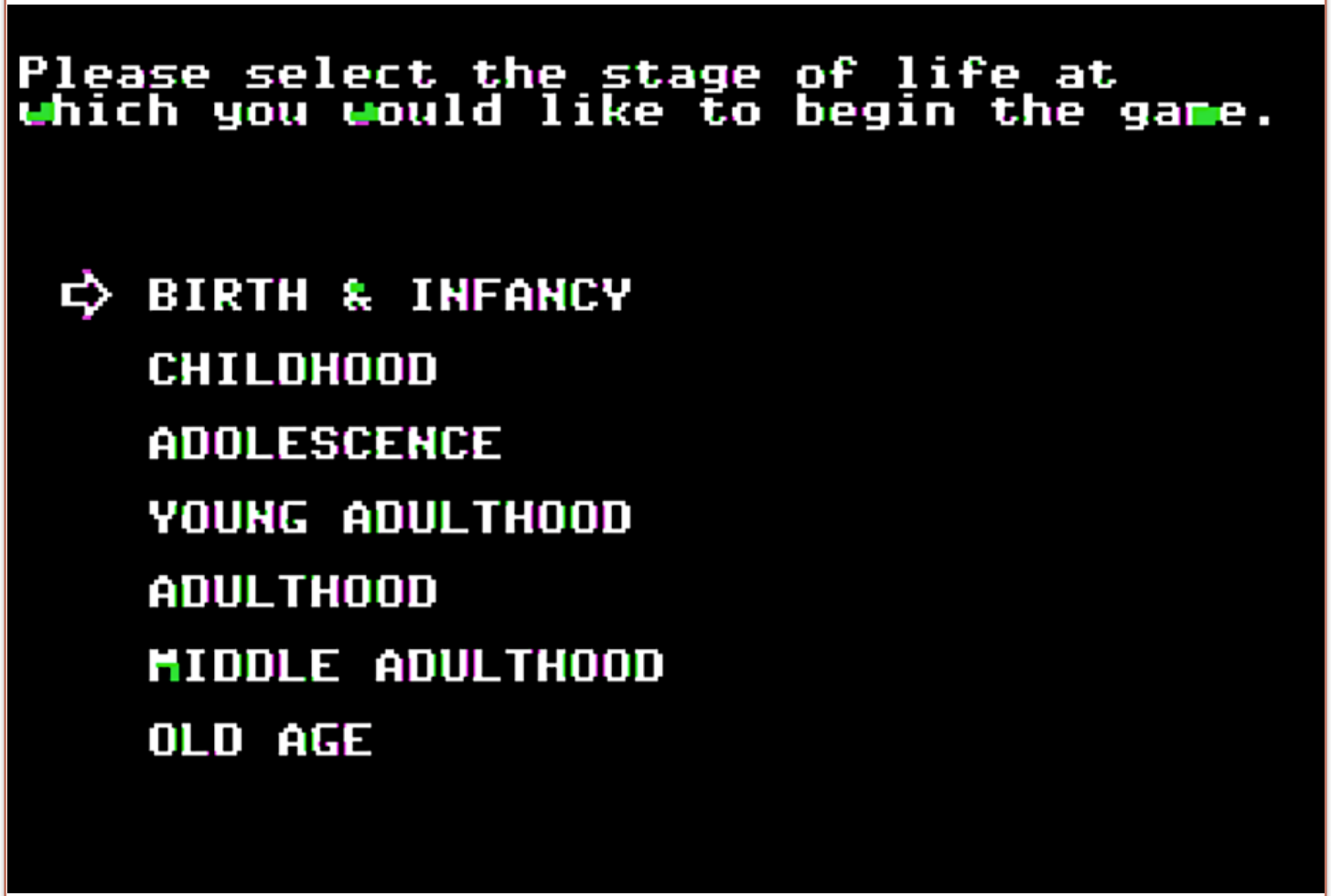
Iguanodon was an Ornithischian. The red pubis bone points backwards.

Tyrannosaurus was a Saurischian. The red pubis bone points forward.


INJURED
ENGINE
IMAGIC ©
1984
YOU HAVE SIXTEEN-COLOR CAPABILITY!
TURN THE DISK OVER AND PRESS A KEY


THROTTLE
START
OPTIONS
OIL
TEMP
BATT
RPM
MILES
0
TOTAL


ALTER EGO
PERSONALITY DEVELOPMENT PROFILE
Use the arrow keys or I, J, K, and M to move the pointer next to a response.
Press SPACE to select that response.
LET ME SELECT MY OWN PERSONALITY
LET COMPUTER SELECT MY PERSONALITY
LET COMPUTER SELECT MY PERSONALITY THEN LET ME EXAMINE OR EDIT IT
LOAD A PREVIOUS GAME


Please select the stage of life at
which you would like to begin the game.
BIRTH & INFANCY
CHILDHOOD
ADOLESCENCE
YOUNG ADULTHOOD
ADULTHOOD
MIDDLE ADULTHOOD
OLD AGE


You are walking down a poorly lit street late at night when you see a teen-aged boy mugging an elderly man.
PRESS SPACE TO CONTINUE

Basic Computer Games

Microcomputer Edition

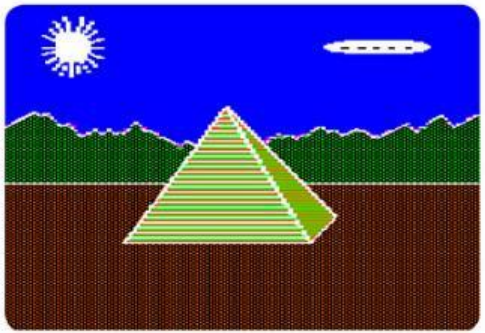
Edited by David H. Ahl

Call-A.P.P.L.E.™

Apple Pugetsound Program Library Exchange

The Etch-a-Sketch

and Other Fun Programs



Brian Wiser

The Etch-a-Sketch and Other Fun Programs is a collection of Apple II software programmed by a student in the 1980s. BASIC and machine language programming were once taught in schools, and here you'll find a variety of useful graphics, education, utility, and game software. The author also shares stories about his programming experiences in school.

Features 13 Programs Including:

- ***The Etch-a-Sketch*** – fun drawing with keyboard, joystick, and sound.
- ***The Apple*** – the six color logo in beautiful lo-res.
- ***Annual Graph Matrix*** – graph monthly amounts for one year.
- ***Compound Interest*** – calculate investment interest over time.
- ***States & Capitals*** – learn about the U.S. through quizzes.
- ***Access Code*** – an alarmed gatekeeper for your disks.
- ***H*** – a powerful HELLO program for launching files in DOS 3.3.
- ***Random Access Filer*** – a simple text database for contacts.
- ***Tunnel Race*** – dodge obstacles through a text-based cavern.

Produced by
Brian Wiser & Bill Martens

Apple PugetSound Program Library Exchange
www.callapple.org

Dennis Kovacich


"Terry? That's a GIRLS name!"
You have died of dissing Terry

My journey to computers

- 1974 - field trip to Lawrence Hall of Science at UC Berkeley

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- 1980-1990 - Writing math flash facts for kids
- 1984 - Macintosh
- 1988 - Mac SE/30 AppleTalk network with 8 //es and 4 GSes

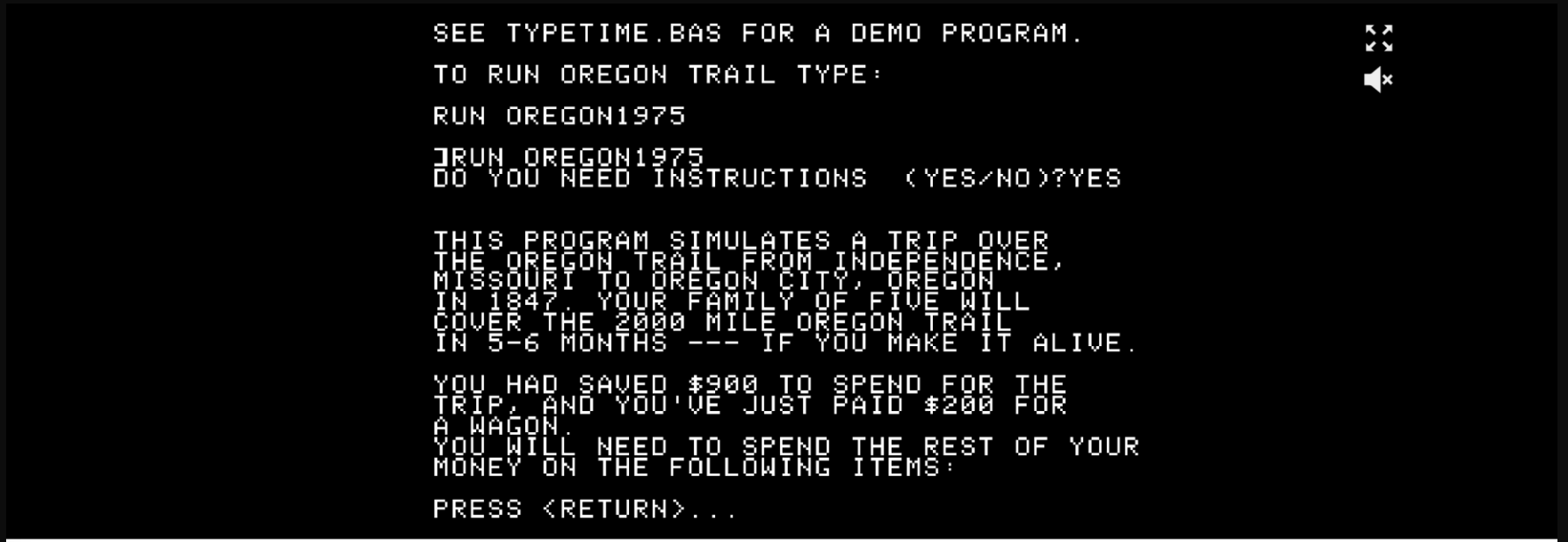
Chris Torrence

```
OREGON

Do you need instructions (Yes/No)?YES


This program simulates a trip over the Oregon Trail from
Independence, Missouri, to Oregon City, Oregon in 1847.
Your family of five will cover the 2000 mile Oregon Trail
in 5-6 months --- If you make it alive.

You had saved $900 for the trip, and you've just
paid $200 for a wagon.
You will need to spend the rest of your money on the
followins items:
```

```
Monday, April 12, 1847

You'd better do some huntins or buy food SOON!!!!
Total mileage is  196
Food            Bullets         Clothins        Misc. Supp.
 7               3800            70              64
Do you want to (1) Stop at the next fort, (2) Hunt, or (3
Type bang: BANG
Right between the eyes---You got a big one!!!
Watch your calories tonight!!!
Do you want to eat (1) Poorly  (2) Moderately
or (3) well?2
Bandits attack
Type bang: BANG
You got shot in the leg and they took one oxen.
You'd better have a Doc' look at your leg.
```

BANG!

ATA CENTER <masswerk.at>



Oregon Trail Mainframe

by Chris Torrence

Publication date	2015
Topics	Apple II, Oregon Trail, mainframe, Applesoft

1,126 Views

4 Favorites

A conversion of Oregon Trail to Applesoft BASIC, created by Chris Torrence in April 2015, from the original 1975 source code uploaded by Jimmy Maher (https://archive.org/details/200106-tops10-in-a-box)

Ken Gagne

The History of Computing and the Internet

KansasFest 2019

VisiCalc–a generation later

By Ken Gagne

Editor's note: Juiced.GS Associate Editor Ken Gagne teaches high school students in 2005 the ancient art of the spreadsheet from 1979–having them work with a program that was conquering the world prior to their even being born. Ken shares his perspective on today's teenagers dealing with yesterday's technology.

❝❝❝

I teach technical writing at a high school populated with bright students whose acumen leans toward science and mathematics. Being bright and young, they naturally gravitate to the latest technology, and equip themselves with everything from iPods to Palms and cellular phones.

As an Apple II user, I wondered if the students are aware of the roots of today's machines. So when I had the opportunity to create and teach a lesson plan for the computer science class, incorporating the classic computer seemed a natural decision. I could not legally install Apple ROMs and emulators on the computer lab's Windows machines–but Syndicomm user Thomas Compter informed me that VisiCalc was available to be freely and legally installed in a Windows environment.

VisiCalc, the first electronic spreadsheet program, was published by Software Arts for the Apple II in 1979. It was one of the first "killer apps"–a piece of software worth buying the hardware for–for the world's first microcomputer, appealing to both Wall Street financiers and consumers who calculated their own taxes. VisiCalc eventually gave way to Lotus 1-2-3, which inspired Microsoft Excel, a spreadsheet program commonly used today for everything from survey data and staff rosters to graphs and charts. But much of what modern software accomplishes with megabytes of hard drive space and memory, VisiCalc did with much less leeway, and often more efficiency. For my class, I focused on its original financial appeal and gave a related lab assignment–but not before a brief history lesson.

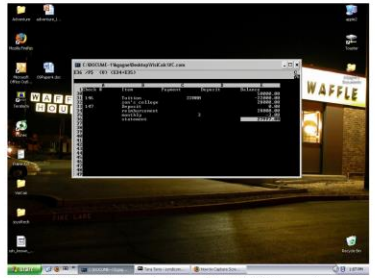
We've come a long way, baby: *Classic 40-column all caps VisiCalc on a very early Apple II. Screenshot courtesy Steven Weyhrich.*

"What kind of program was invented in 1979?" First-person shooter? "Spreadsheet. What was its name?" Excel? "No, VisiCalc. How big was it?" Around 400 kilobytes, most students ventured (it was only 26). "How much memory did the Apple II have back then?" Not more than 16 megabytes, a student guessed (technically, he was correct; 16 kilo-bytes isn't more than 16 megabytes). And, most disturbing of all: "Who were the two Steves who founded Apple?" Steve Jobs and... there was another Steve? To a vintage computer enthu-siast, the lack of perspective and context today's computer users have is simultaneously both amusing and appalling.

I then provided them with a photocopy of the original VisiCalc reference card and a sample checkbook ledger and instructed them to create their own fictional record, complete with deposits, withdrawals, and balances. Once they mastered the mathematics, further particulars would include justifying various headers, applying currency formatting to certain columns, and the like.

As I expected, many students had difficulty with the assignment. The lack of a mouse and menu bars and the reliance on a text-based interface created much mystery as to which obtuse command would fulfill their needs. (the lesson's final objective was to determine the quit command, which was not "Quit", but "/SQY"–intuitive, no?) One student who confused the "Blank" and "Clear" commands learned how easy it was 26 years ago–before backups, regular save intervals, or "Undo" commands–to erase all one's data.

More than a lesson in computer usage, though, the assignment seemed to many students more educational in mathematics and logical thinking. Many of them were too young to have their own checkbooks, and a few needed help to understand that Balance = Previous Balance + Deposit - Payment, and how to represent that using cell values. I'd preceded the exercise with demonstrating that paper spreadsheets don't automatically recalculate their cells, which is why a computer made things so much easier twenty-six years ago. But some students manually entered all their numbers, which of course resulted in the spreadsheet not updating when I tested it by changing the deposit and payment values. Other students created a balance column that acknowledged either a deposit or a payment, depending on which one they'd entered; that failed when I changed the deposit to a payment. ("But you can't have both!" they'd protest; "I don't care, and neither should the balance column. It should handle anything you throw at it.")



Windows to the past: *An ancient spreadsheet–VisiCalc–running on one of today's operating systems–Windows.*

Two students (perhaps who'd been weaned on Lotus 1-2-3?) mastered the intricacies of this program quickly, and produced some varied and elegant formulas to fulfill the assignment. Many struggled for longer than I anticipated, but most finished before the hour was up.

What did they learn from this exercise? I'm not sure, but I can tell you what the teacher learned: the need to preserve our history is strong. I asked the students to tell their parents that they'd learned VisiCalc in school today, and watch their eyes mist over with fond memories. Most students reported back the next day that all they'd received was blank stares. This new generation is surpassing the old one, but with few of their building blocks.

My job is to enrich my students and prepare them for the world they will encounter upon graduation–a world whose technological revolutions and evolutions are moving at a breakneck pace. But if they do not understand why machines work as they do, and cannot adjust their expectations to adapt themselves to a variety of technical circumstances, they may find themselves simply going through the motions, being machines themselves. The Apple II inspired creativity; students who are creative themselves will appreciate that and will express it in their own work, inspiring others. What a lesson that would be!

❝❝❝

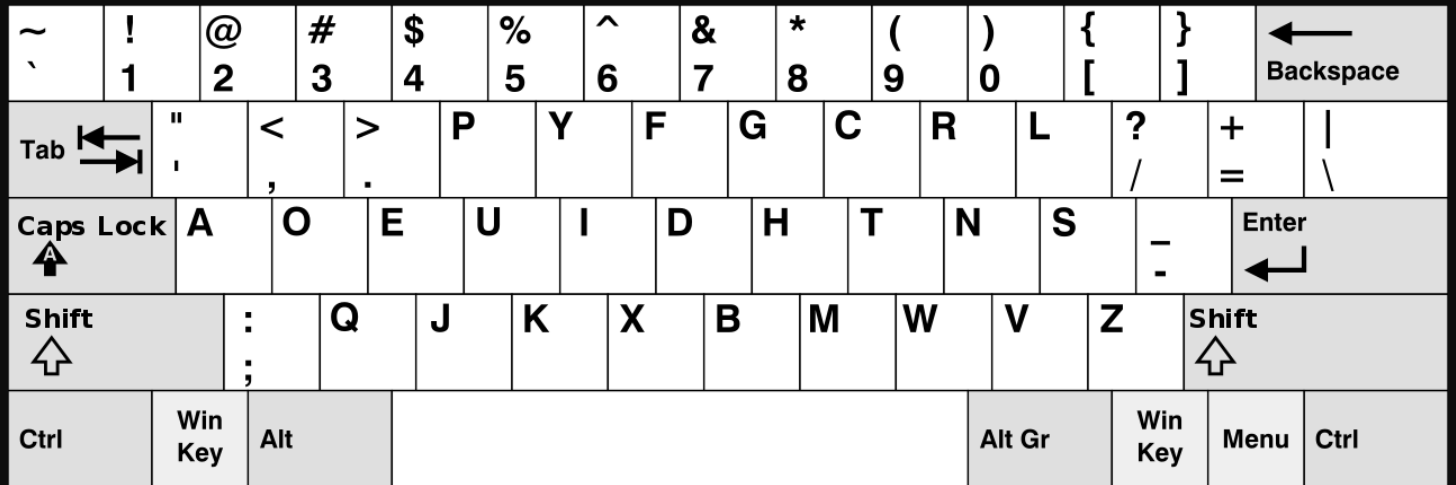
You may remember Juiced.GS Associate Editor Ken Gagne from such films as 'Disc' and 'Fever Pitch'—neither of which he will be showing in the Film Analysis class he is looking forward to teaching this spring. Instead, the curriculum will encompass a variety of self-selected works, from black and white classics like 'Days of Wine and Roses' and 'Fail-Safe' to modern Geek favorites including 'TRON' and 'Mystery Science Theater 3000'.

How does history affect us?

QWERTY

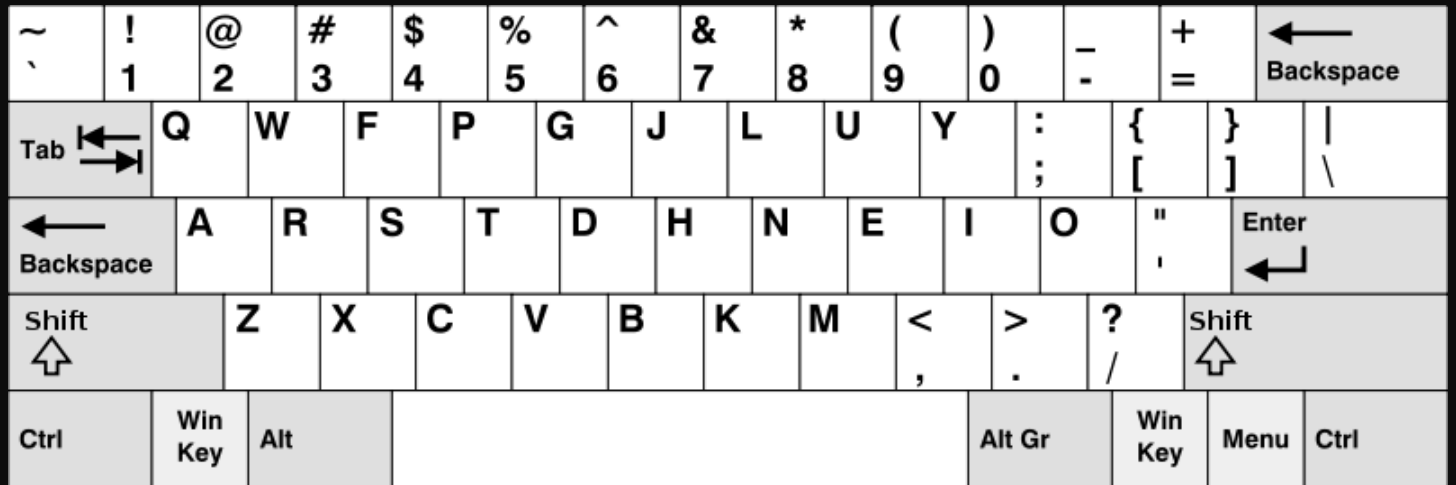
How does history affect us?

DVORAK



How does history affect us?

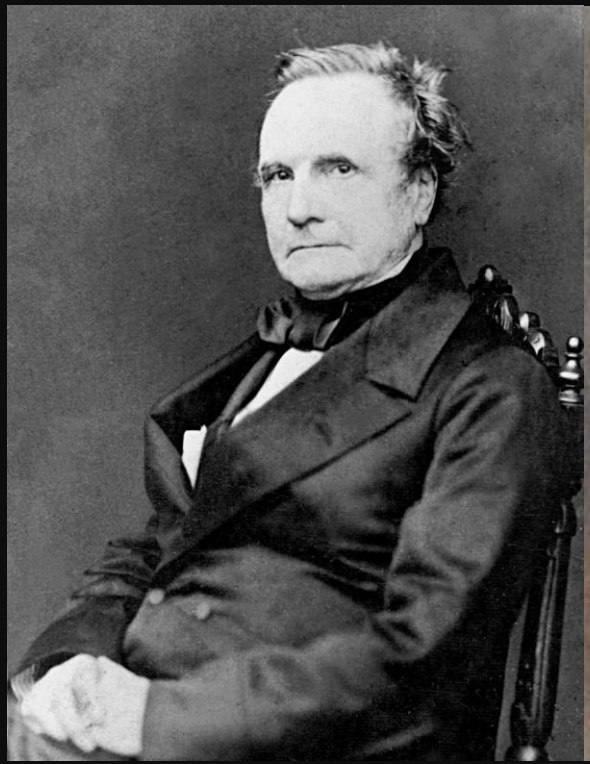
Colemak

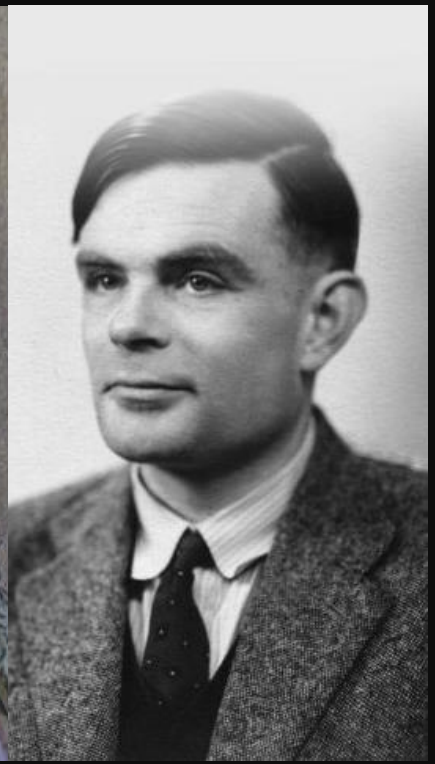


Who invented the computer?

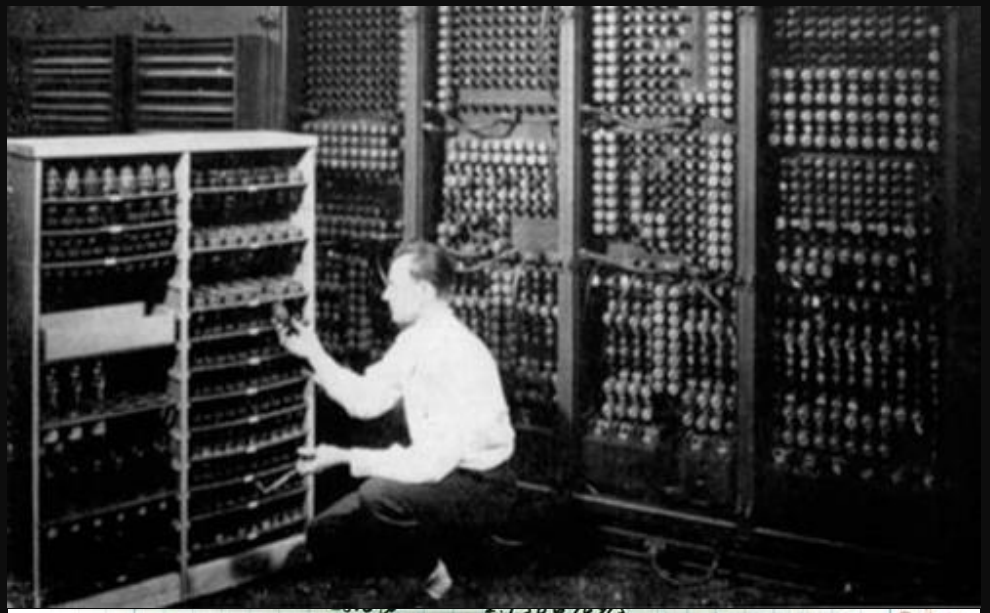
… Hard to say.

Source: http://www.google.com/doodles/hisashige-tanakas-213th-birthday





Source: https://en.wikipedia.org/wiki/Charles_Babbage



Relays 6-2 in 033 failed special speed test
In relay Relays changed 10,000 test.

1100 Started Cosine Tape (Sine check)

1525 Started Multy Adder Test.

1545  Relay #70 Panel F
(moth) in relay.

First actual case of bug being found.

1700 closed down.

Source: http://www.library.upenn.edu/exhibits/rbm/mauchly/jwm8b.html

turday Evening, October 5, 1957 (UP)—Means United Press Price: Five Cent

Russians Win Race To Launch Earth Satellite

Man On Threshold Of Space Travel

By DANIEL F. GILMORE
United Press Staff Correspondent

LONDON (UP)—The pulsating radio "beep" of the first manmade earth satellite signalled today to the world that man had crossed the threshold into the age of travel through space.

The Soviet Union announced it had won the race into space by launching an earth satellite Friday, a 184-pound, 22-inch globe now orbiting the earth at 18,000 miles an hour, 560 miles up.

Millions of persons throughout the world heard the "beep...beep...beep..." rebroadcast today by local stations and realized that man had taken his first faltering steps into the new era.

Launching of the satellite was a tremendous victory for science. It was a more tremendous victory for Soviet propaganda to be able to trumpet to the world the Russians were the first to break through the frontiers of space.

Bolsters ICBM Claims

It bolstered Russian claims to

— WEATHER —

WEST VIRGINIA—Partly cloudy with highest in the 60s today and Sunday. Lowest tonight 50 west and 40 east portions.

VIRGINIA—Fair with lowest 45 to 50 west and north and 50 to 55 southeast portions tonight, Sunday mostly sunny and a little warmer. Tides on the coast and lower bay will run a foot or two above normal.

How To Spot Satellite

By UNITED PRESS

Here's how to look for the Russian earth satellite which will be whizzing through the sky at 18,000 miles an hour.

The best time to spot it is at dawn or dusk when the sky is semi-dark. There is a chance that it could be seen if it travels across the face of the moon at night.

The best instruments to use are ordinary binoculars or telescopes. Powerful telescopes won't pick it up because of their narrow fields.

Through optical instruments, the satellite will look like the faintest star which can be seen with the naked eye.

Keep a sharp eye out. The satellite travels so fast it may appear on the horizon for only seconds and chances of spotting it have been estimated at one in a hundred.

Epic-Making

U. S. May Speed Up Satellite Program

By JOSEPH L. MYLER
United Press Staff Correspon

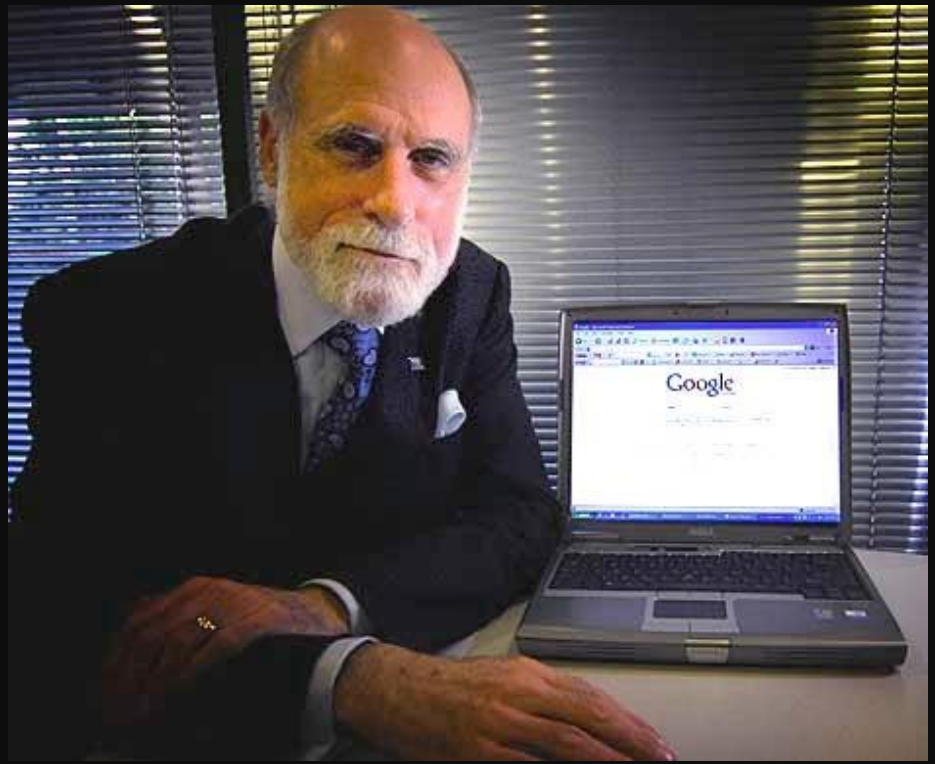
WASHINGTON (UP)—Amer scientists, caught flatfooted Russia's epic launching of the man-made moon, indicated t the United States may spee its own earth satellite progra

Leaders of the U.S. satellite gram also said that it ap Russia rocketed its heavy pound satellite into a globe dling orbit with a rocket to" an intercontinental ba missile.

That could mean Russi only has beaten this country frontiers of space, but also t has been called the "ul weapon" for modern day wa ICBM. This country has n tested a successful ICBM.

American diplomats co Russia had scored a notable

Source: http://en.wikipedia.org/wiki/Paul_Baran



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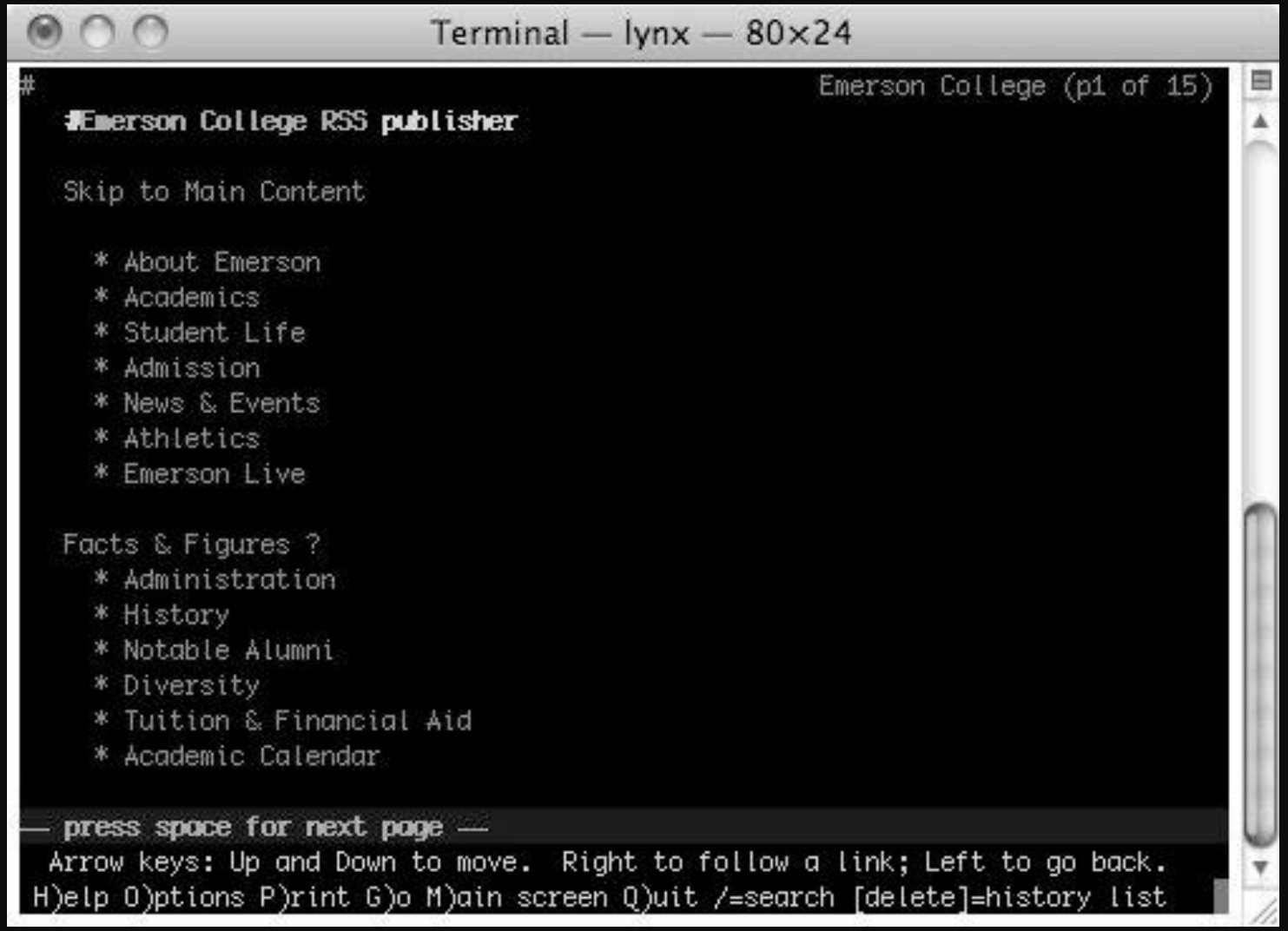
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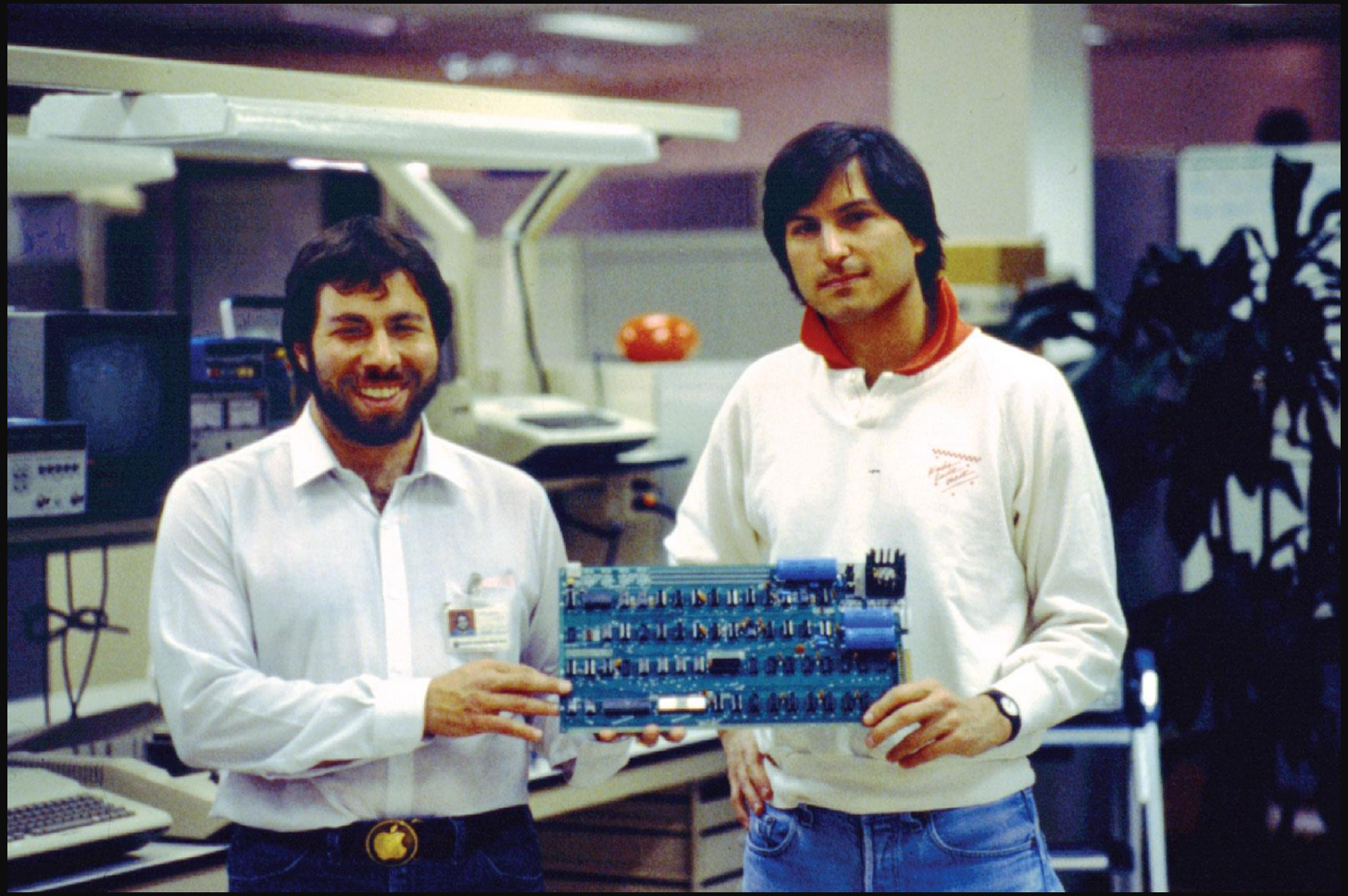


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Reviews
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The Roller-Coaster Ride of '95
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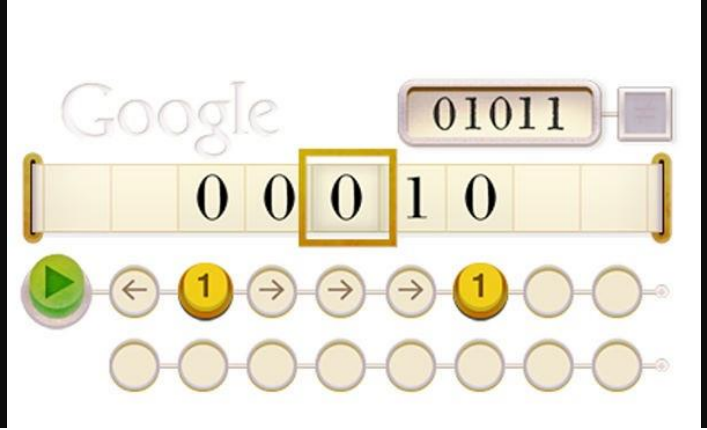
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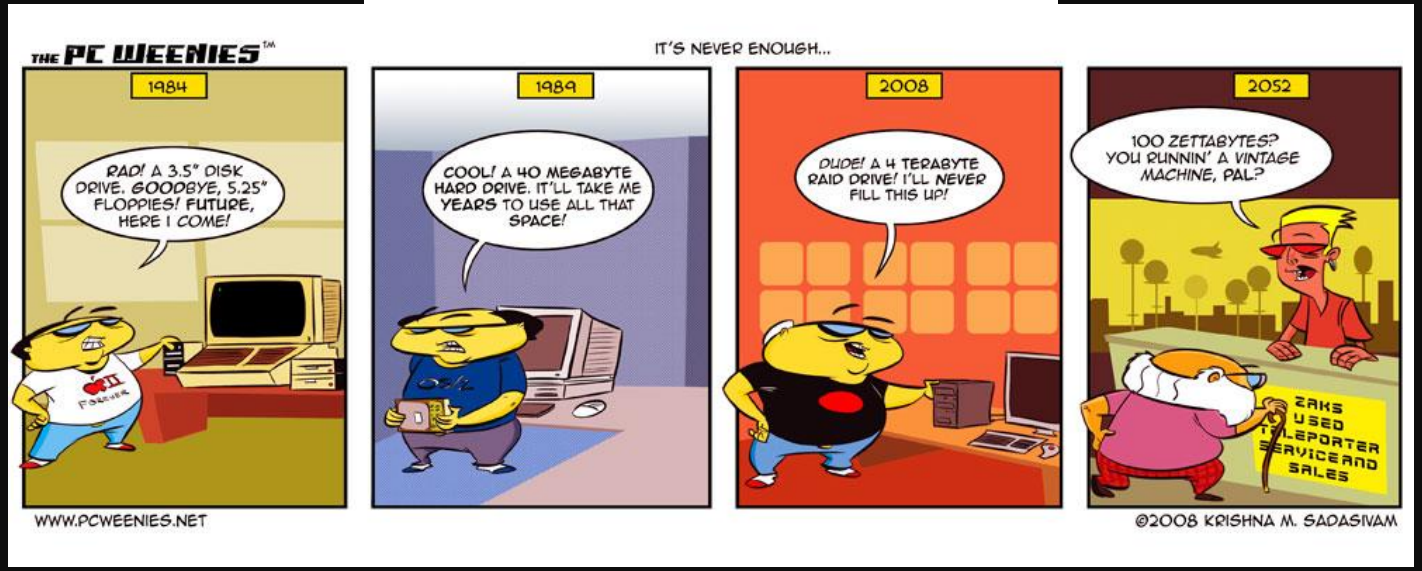
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Conclusion

“The Oregon Trail Players need not take into account the lives of others unless it's necessary to do so in order to accomplish their personal objectives. Thus, the cultures of the Plains Indians are backgrounded. The game marginalizes their view of the earth.”

- Bigelow, Bill, “On the road to cultural bias: A critique of The Oregon Trail CD-ROM

"... we need to remember that these CD-ROMs are not teacher substitutes. The teacher's role in analyzing and presenting these devices in a broader ethical context is absolutely vital. Thus, teachers across the country must begin a dialogue toward developing a critical computer literacy."

- Bigelow, Bill, "On the road to cultural bias: A critique of The Oregon Trail CD-ROM

What if we de-colonized Oregon Trail?

TOKENISM has died.

Date: March 23, 1848
Weather: cold
Health: very poor
Food: 0 pounds
Next landmark: 30 miles
Miles traveled: 524 miles

Press SPACE BAR to continue

RACISM has died.

Date: March 19, 1848
Weather: cool
Health: very poor
Food: 0 pounds
Next landmark: 114 miles
Miles traveled: 440 miles

Press SPACE BAR to continue

SEXISM has died.

Date: March 16, 1848
Weather: cool
Health: very poor
Food: 0 pounds
Next landmark: 218 miles
Miles traveled: 336 miles

Press SPACE BAR to continue


Here lies
EXCLUSION
25/10
Press SPACE BAR to continue

“The pedagogy of the oppressed, animated by authentic, humanist (not humanitarian) generosity, presents itself as a pedagogy of humankind... This is why, as we affirmed earlier, the pedagogy of the oppressed cannot be deleoped or practiced by the oppressors.”

- Paolo Friere

Discussion & Homework

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