

**Make Programming
Great Again**

I'm Ray

- I do API stuff for IBM
- (Node.js demos with kittens)
- @raymondcamden
- www.raymondcamden.com



Programming

A close-up, slightly blurred photograph of a fluffy, light-colored kitten's face, looking directly at the camera with large, dark eyes.

GREAT Programming!





**Programming that
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Ultima® V

Warriors of Destiny

Front: Program

One



Back: Dungeon



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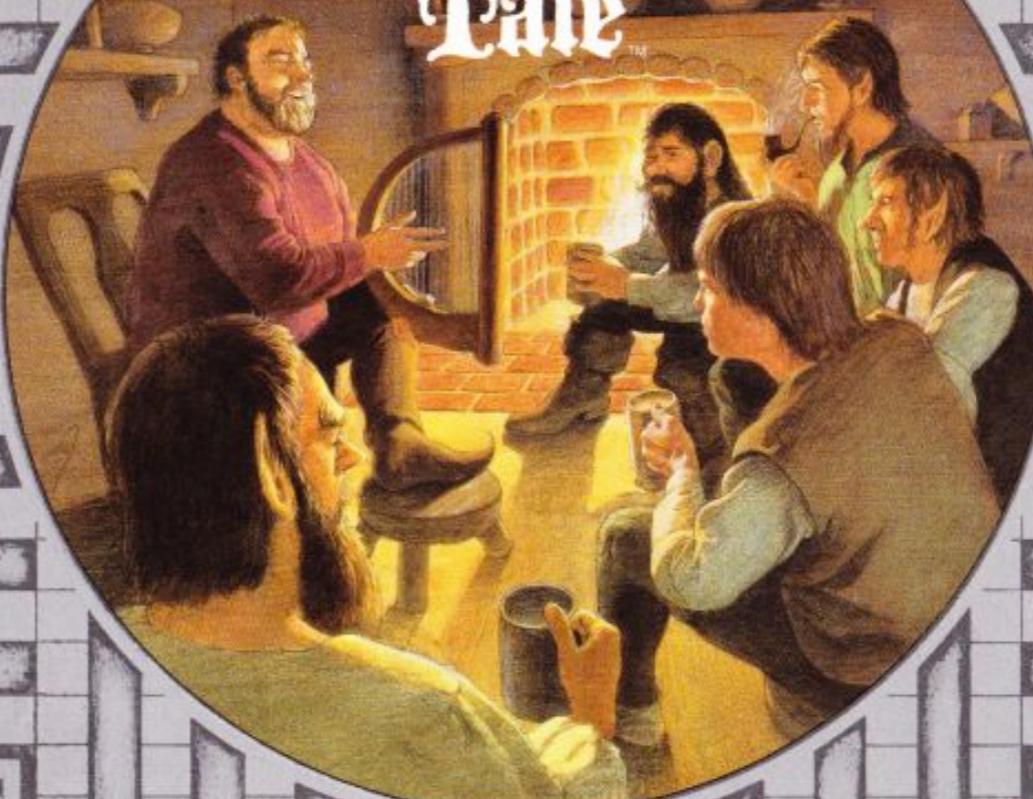
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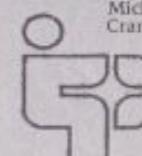
VOLUME I

The Bard's Tale



ELECTRONIC ARTS™

Michael
Cranford

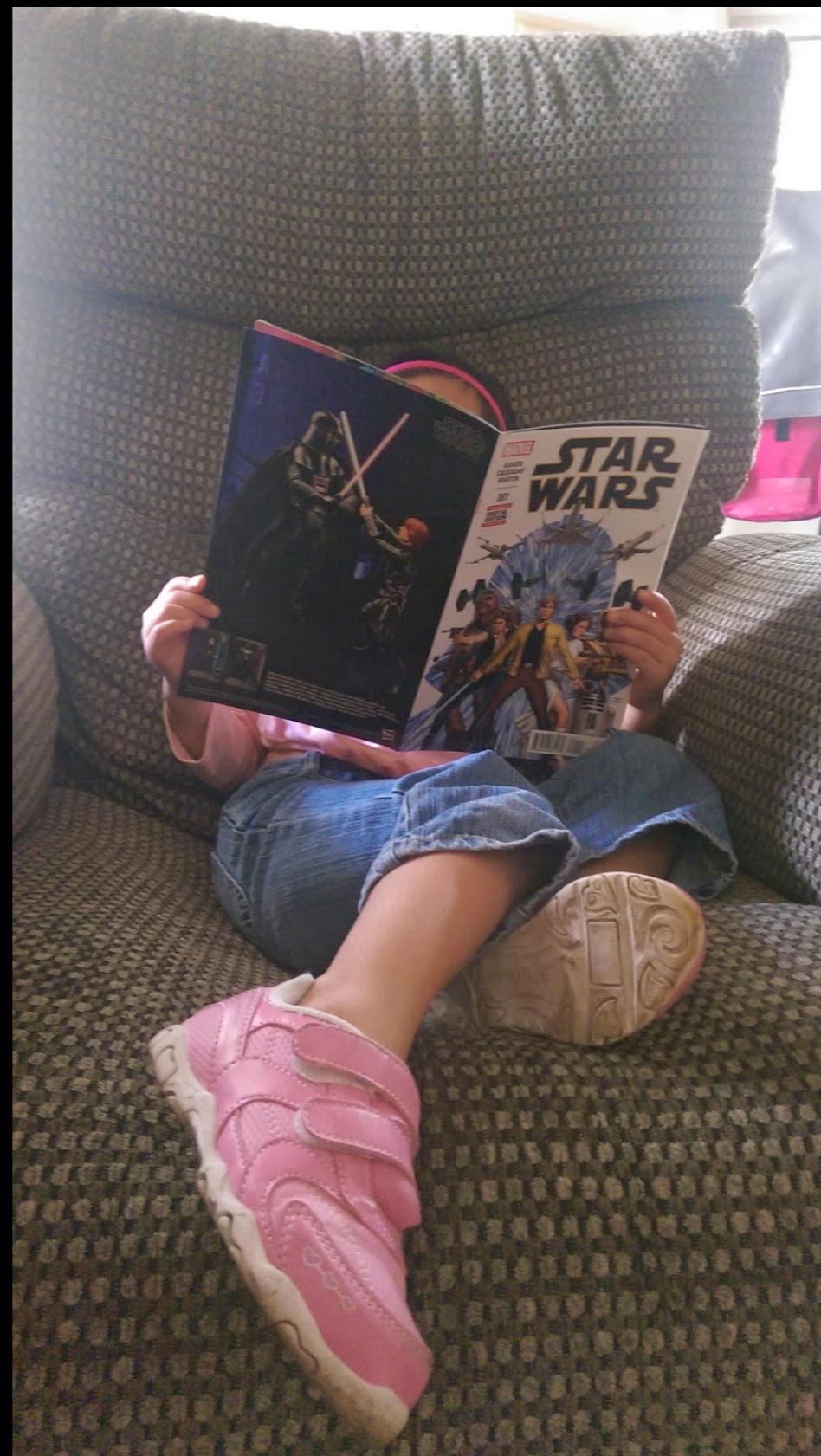


Interplay
Productions

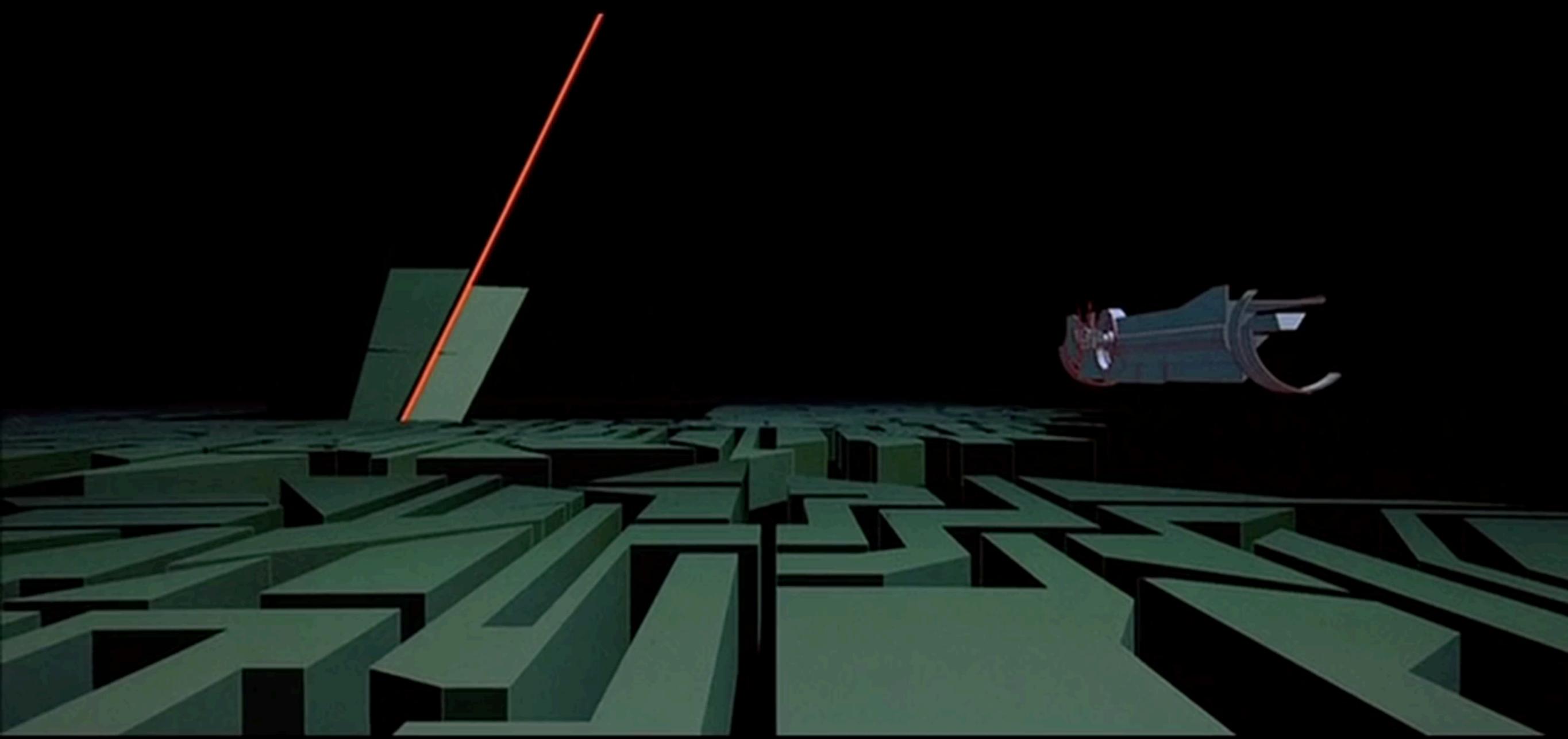
C1 1A 00 00 00 C6 1B 00 00 00 43 1C 00 00 00 48C....H
1D 00 00 00 42 1E 00 00 00 42 1F 00 00 00 C2 20B....B....
00 00 00 C2 21 00 00 00 43 22 00 00 00 48 23 00!...C"....H#.
00 00 CE 24 00 00 00 C1 25 00 00 00 45 26 00 00 ...S....%....E&..
00 8E 27 00 00 00 0B 28 00 00 00 8B 29 00 00 00 ..'....(....)...
8A 2A 00 00 00 01 2B 00 00 00 C4 2C 00 00 00 C3 .*....+....,...
2D 00 00 00 C3 2E 00 00 00 A5 2F 00 00 00 A4 30 -...../....0
00 00 00 66 31 00 04 00 67 32 00 03 00 66 33 00 ...f1...g2...f3.
01 00 44 40 00 00 00 C2 41 00 00 00 41 42 00 00 ..D@....A....AB..
00 42 43 00 00 00 00 44 00 00 00 00 45 00 00 00 .BC....D....E...
80 46 00 00 00 00 47 00 00 00 80 48 00 00 00 00 .F....G....H....
49 00 00 00 80 4A 00 00 00 00 4B 00 00 00 00 4C I....J....K....L
00 00 00 80 FF 00 00 00 00 50 00 FE 00 41 51 00P...AQ.
FE 00 41 52 00 FF 00 C2 53 00 FE 00 42 54 00 FE ..AR....S...BT..
00 41 55 00 FE 00 41 56 00 FE 00 41 57 00 FF 00 .AU...AV...AW...
07 58 00 FF 00 05 59 00 02 00 07 5A 00 02 00 07 .X....Y....Z....
5B 00 02 FD 00 5C 00 02 F6 00 5D 00 02 F5 80 5E [....\....]....^
00 03 FE 43 5F 00 03 00 C3 60 00 03 00 C3 61 00 ...C....^....a.
03 00 63 62 00 04 00 E3 1C 00 00 00 00 63 00 07 ..cb.....c..
53 00 64 00 07 54 00 55 00 04 54 00 56 00 03 55 ..t.....s.

Programming?









APPLESOFT II FLOATING POINT BASIC

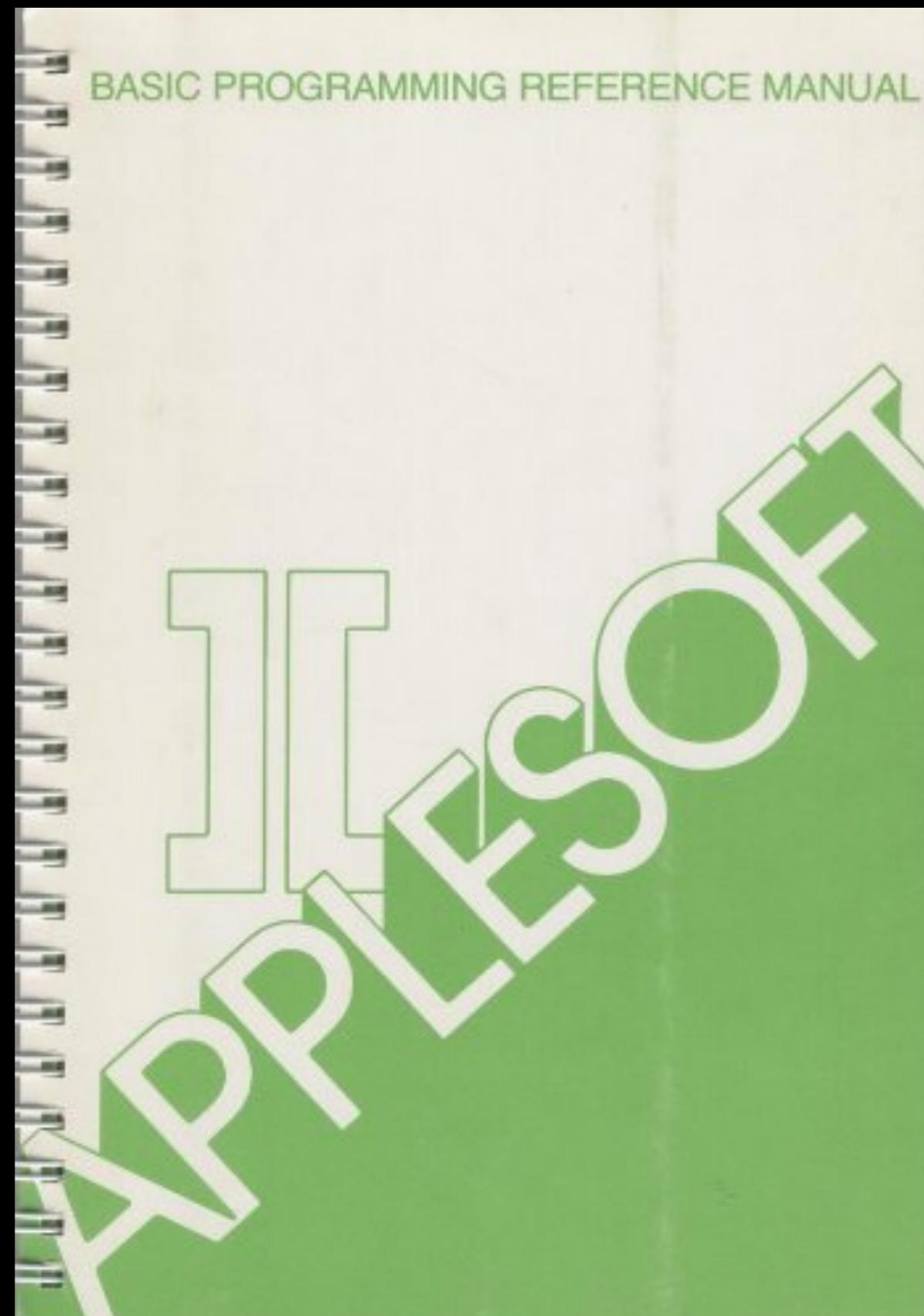
APRIL 1978

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RUPOTI



When angry Programmer Get Error

DEFERRED—EXECUTION COMMANDS

Commands such as the PRINT statements you have just typed are called "immediate-execution" commands. There is another type of command called a "deferred-execution" command. Every deferred-execution command begins with a "line number". A line number is an integer from 0 to 63999.

Try typing the following lines:

```
10 PRINT 2+3  
20 PRINT 2-3
```

(Remember, each line must be terminated by pressing the RETURN key.)

A sequence of deferred-execution commands is called a "program." Instead of executing deferred-execution statements immediately, APPLESOFT BASIC stores deferred-execution commands in the APPLE's memory. When you type RUN, APPLESOFT first executes the stored statement having the lowest line number, then the statement with the next higher line number, etc., until the complete program has been executed.

Suppose you type RUN now (remember to press the RETURN key at the end of each line you type):

```
RUN  
APPLESOFT will now display on your TV:  
5  
-1
```

Try typing the following lines:

10 PRINT 2+3

20 PRINT 2-3

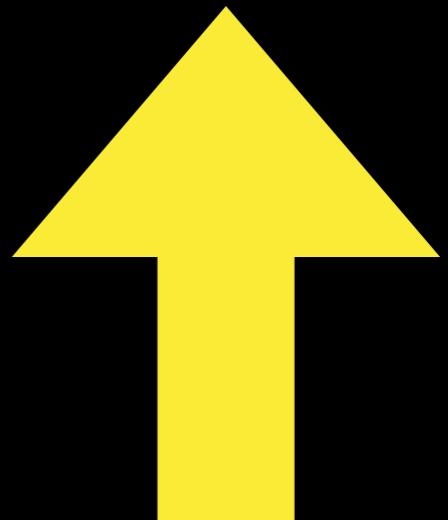
(Remember, each line must be terminated by pressing the RETURN key.)

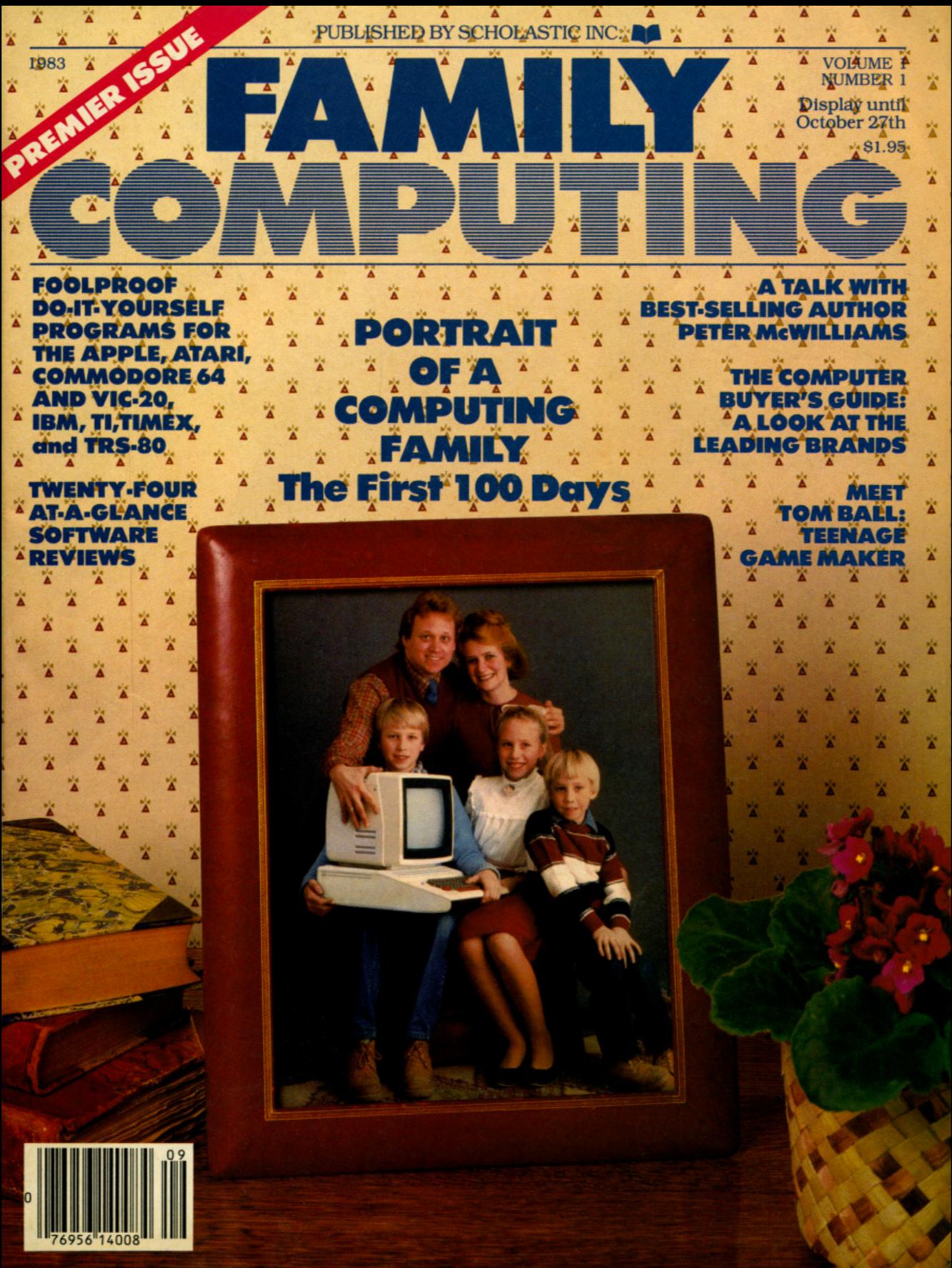
Try typing the following lines:

10 PRINT 2+3

20 PRINT 2-3

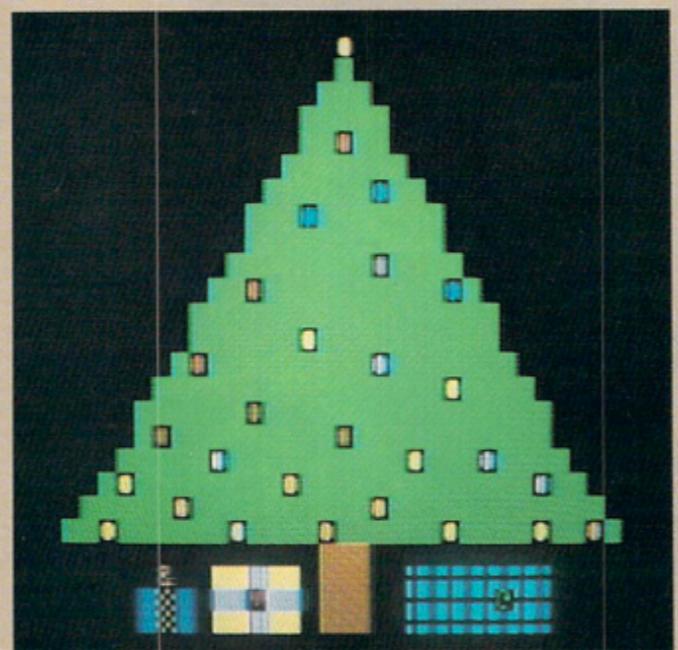
(Remember, each line must be terminated by pressing the RETURN key.)





HOLIDAY PROGRAMS**CHRISTMAS TREE**

BY JOEY LATIMER



The Commodore 64 version of Christmas Tree

As the snow falls outside, your family can gather 'round the computer with glasses of eggnog and fall under the spell of our *Christmas Tree* program. Watch your computer trim a tree on the screen and

surround its base with beautifully wrapped presents, while the tree lights flicker to the familiar tune of an old Christmas song. [Note: The TRS-80 Models I & III and Timex versions do not include music.]

Apple/Christmas Tree

```

10 HM = PEEK(116) * 256 + PEEK(115)
20 HIMEM: HM - 23
30 DIM LIGHT(50), BOX(3,2), S(64)
40 GR
50 POKE -16302,0
60 CALL -1998
70 INC = 2
80 COUNT = 19
90 COLOR= 4
100 FOR A = 7 TO 33
110 HOLD = A
120 FOR B = 1 TO 2
130 GOSUB 2000
140 NEXT B
150 COUNT = COUNT - 1
160 INC = INC + 2
170 NEXT A
180 READ C,L,H,X
190 IF C = -1 THEN 250
200 COLOR= C
210 FOR A = L TO H
220 VLIN X,44 AT A
230 NEXT A
240 GOTO 180
250 COLOR= 13
260 FOR A = 1 TO 13
270 READ F,G
280 PLOT F,G
290 NEXT A
300 FOR A = 1 TO 3
310 READ BOX(A,1),BOX(A,2)
320 NEXT A
330 FOR A = 12 TO 17
340 COLOR= 10

```

```

350 IF A <> INT (A / 2) * 2 THEN 400
360 PLOT A,BOX(1,1)
370 PLOT A,BOX(2,1)
380 PLOT A,BOX(3,1)
390 GOTO 430
400 PLOT A,BOX(1,2)
410 PLOT A,BOX(2,2)
420 PLOT A,BOX(3,2)
430 NEXT A
440 COLOR= 13
450 FOR A = 36 TO 44
460 TEMP = A
470 COLOR= 3
480 IF TEMP = 2 * INT(A / 2) THEN HLIN 24,28
AT A
490 NEXT A
500 COLOR= 1
510 FOR A = 30 TO 36
520 VLIN 42,44 AT A
530 NEXT A
540 COLOR= 2
550 HLIN 30,36 AT 43
560 PLOT 33,42
570 PLOT 33,44
580 FOR A = 1 TO 50
590 READ LIGHT(A)
600 NEXT A
610 COLOR= 5
620 VLIN 4,6 AT 20
630 COLOR= 3
640 PLOT 20,3
650 LCOUNT = 1
660 FOR X = 0 TO 22
670 READ Y
680 POKE (HM - 22 + X),Y
690 NEXT X
700 FOR A = 1 TO 64
710 READ S(A)
720 NEXT A
730 VAR = 31
740 GOSUB 1000
750 VAR = 63
760 GOSUB 1000
770 VAR = 31
780 GOSUB 1000
790 COL = INT(RND(1) * 9) + 1
800 IF COL > 2 AND COL < 6 THEN 790
810 COLOR= COL
820 PLOT 20,3
830 FOR I = 1 TO 500
840 NEXT I
850 GOTO 730
1000 FOR B = 1 TO VAR STEP 2
1010 X = S(B)
1020 Y = S(B + 1)
1030 Y = 49980 / Y
1040 X = X * (400 - Y) * .25
1050 I = INT (X / 256)
1060 J = X - 256 * I
1070 POKE 6,J
1080 POKE 7,I
1090 POKE 8,Y
1100 CALL HM - 22
1110 IF LCOUNT < 50 THEN COLOR= INT (RND (1)
* 9) + 1
1120 PLOT LIGHT(LCOUNT),LIGHT(LCOUNT + 1)
1130 LCOUNT = LCOUNT + 2
1140 IF LCOUNT >= 50 THEN LCOUNT = 1
1150 NEXT B
1160 RETURN
2000 PLOT COUNT,A
2010 FOR C = 1 TO INC
2020 PLOT COUNT + C,A
2030 NEXT C
2040 A = HOLD + 1
2050 RETURN
3000 DATA 8,19,21,35,11,3,5,38,11,7,10,37
3010 DATA 5,8,8,37,2,12,17,39,9,24,28,36 →

```

CORRECTIONS

All the line numbers in the modification box for the Trick or Treat program (October issue, p. 70) should have been 10 higher. For example, "in lines 10, 90, 150, . . ." should have read "in lines 20, 100, 160, . . ." We are sorry for any difficulties this may have caused you.

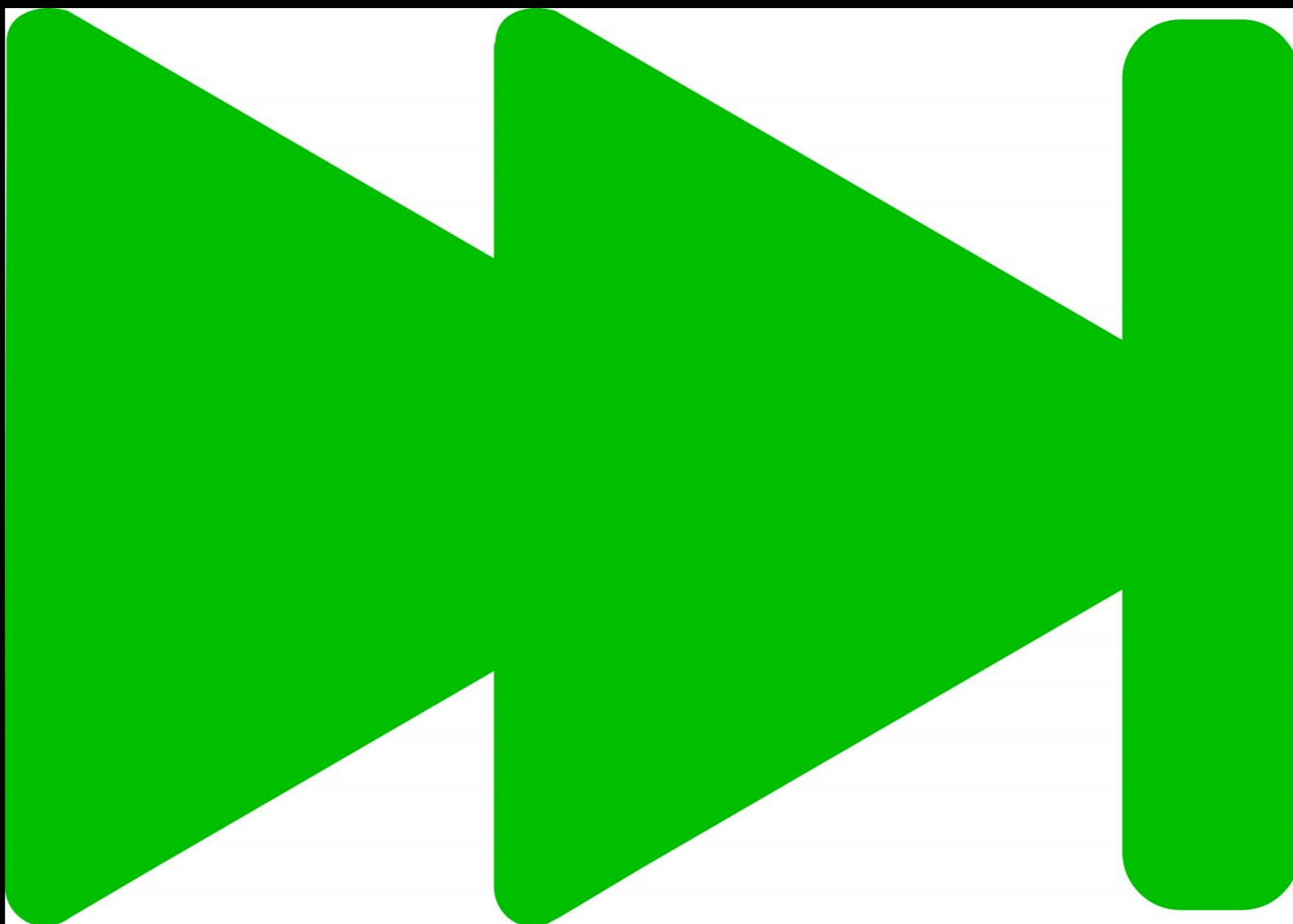
Also, the listing given for the Auto-Nag program (November issue, pp. 124-127) was the IBM PC version; it was mislabeled as the TRS-80 version due to a printer error. To make the program run on the TRS-80 Models III and 4, simply make the changes shown at the end of the program under "Modifications for Other Computers." TRS-80 Color Computer owners can use the Model III/4 version if they add two additional lines:

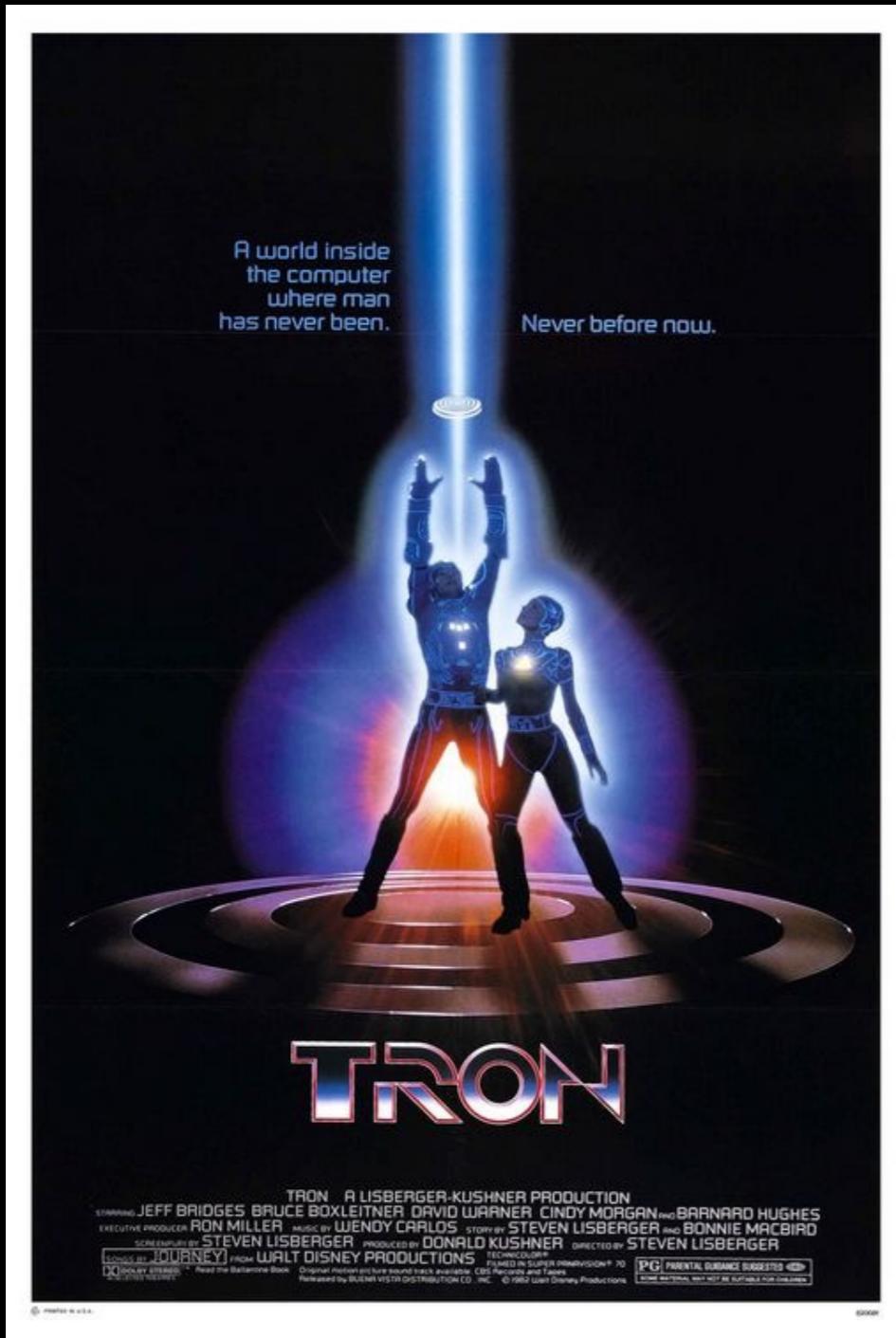
```
125 IF N = 0 THEN 135  
135 IF E = @ THEN CLOSE #1:GOTO 160
```

MODIFICATIONS FOR OTHER COMPUTERS

Atari/*Shopper Search*

Because the Atari does not allow string arrays, the Atari version of this program is very different from the base version. If you would like a free translation of this program for the Atari, send a self-addressed, stamped envelope to Karen Cohen, "Atari Shopper Search," FAMILY COMPUTING, 730 Broadway, New York, NY 10003.





```

void bubbleSort(int ar[])
{
    for (int i = (ar.length - 1); i >= 0; i--)
    {
        for (int j = 1; j <= i; j++)
        {
            if (ar[j-1] > ar[j])
            {
                int temp = ar[j-1]; O(1) O(i)
                ar[j-1] = ar[j];
                ar[j] = temp;
            }
        }
    }
}

```

$i=n$

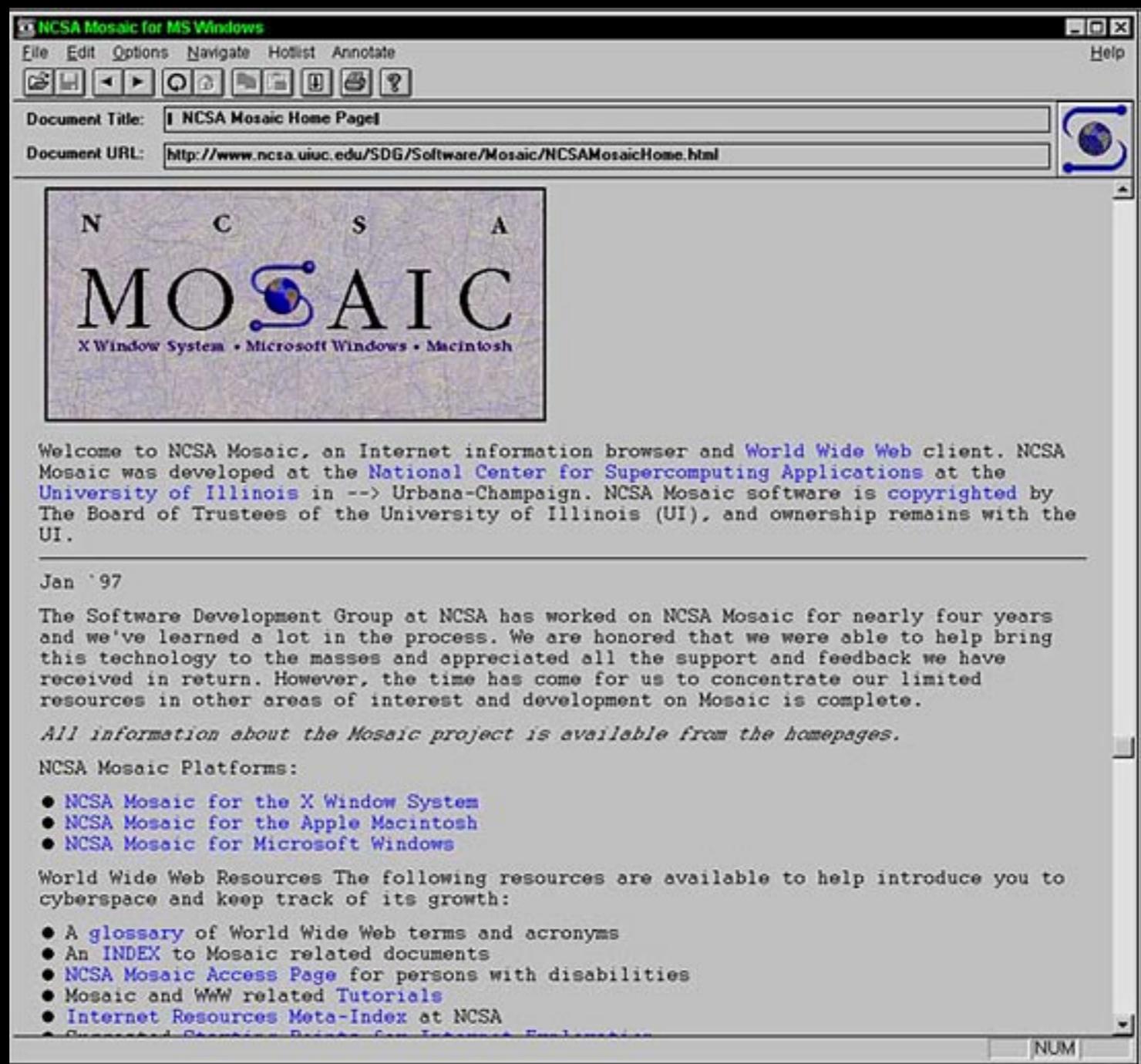
$\sum_{i=0}^n O(i)$

$$\sum_{i=0}^n O(i) = 1 + 2 + 3 + \dots + (n-1) = O(n^2)$$

I LOVE MATH...

IT MAKES PEOPLE CRY

Grumpy Cat™



```
danny@danny-desktop: ~
File Edit View Terminal Tabs Help
danny@danny -desktop:~$ ed lorem.html
824
1
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
2
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
4
    <head>
5
        <title>Lorem ipsum</title>
s/ipsum/lulz
        <title>Lorem lulz</title>
q
?
q
danny@danny -desktop:~$
```

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**me! WAH!
1500+Letters**

**NEW
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christine
full rep**

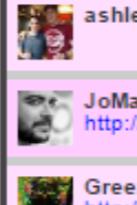


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JoMaRuiz: http://t.co/aVXTqVeIFk is getting better and better http://t.co/WFATpihToh
Greezael: Si alguna vez necesitas un coche, no lo dudaré: http://t.co/R8TOKKfooY @Nekokikles



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**BBC
TWO**
DRAGONS DEN



Richard Farleigh - "I wanted to invest; I was amazed by Ling's complete lack of nerves, and also by her business acumen."



Duncan Bannatyne - "I wanted to invest... but ye turrn'ed me dooon!"



Deborah Meaden
"Harrumph! I'm out!"



**I AM ATTACKED BY MIKE BREWER
FROM TV'S "WHEELER DEALERS"**

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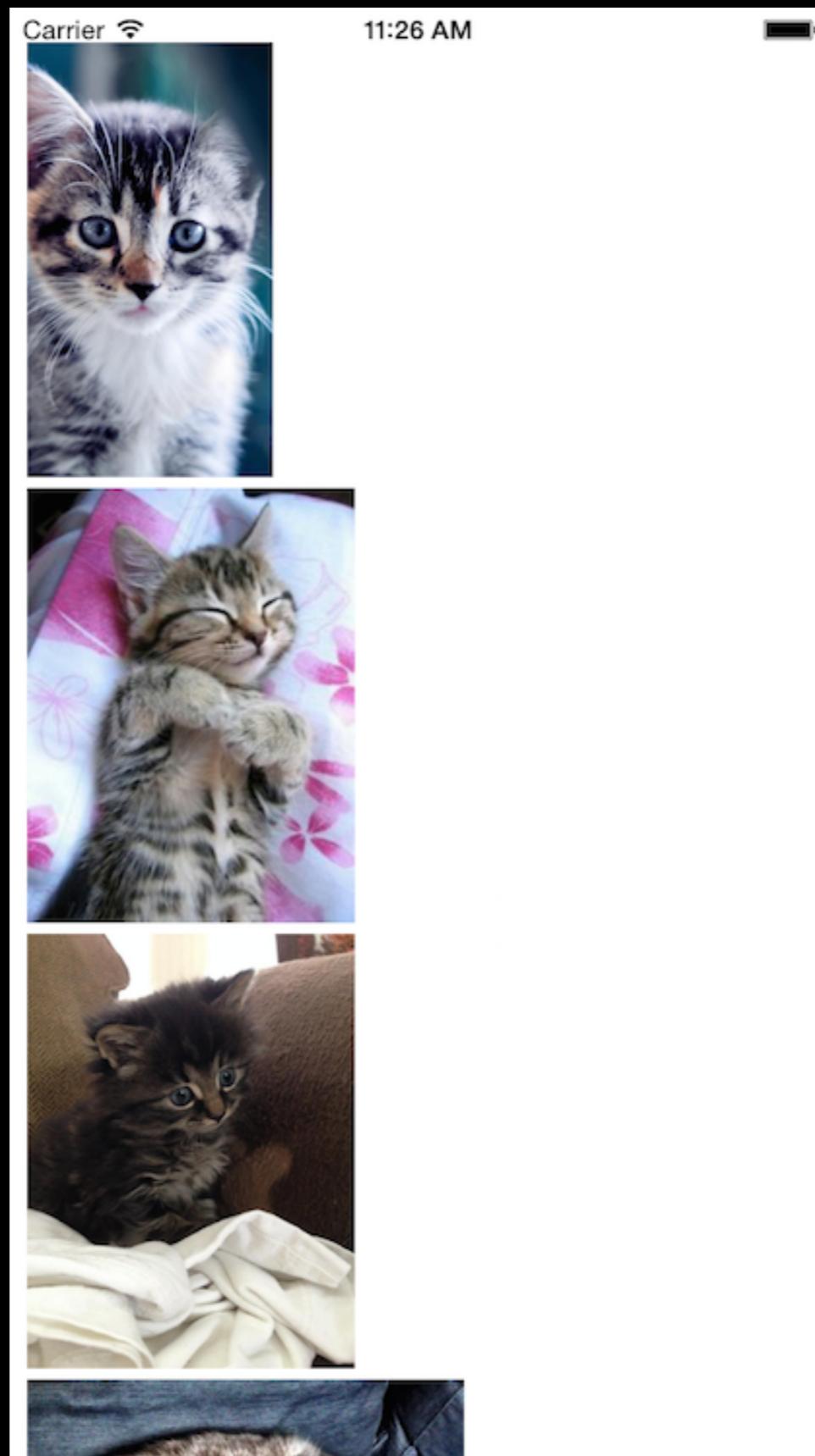
Mobile apps with **HTML, CSS & JS**

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+4 more...



Carrier

10:44 AM

Ionic + Bluemix + Watson Demo

Select Picture



Flower Scene

Flower

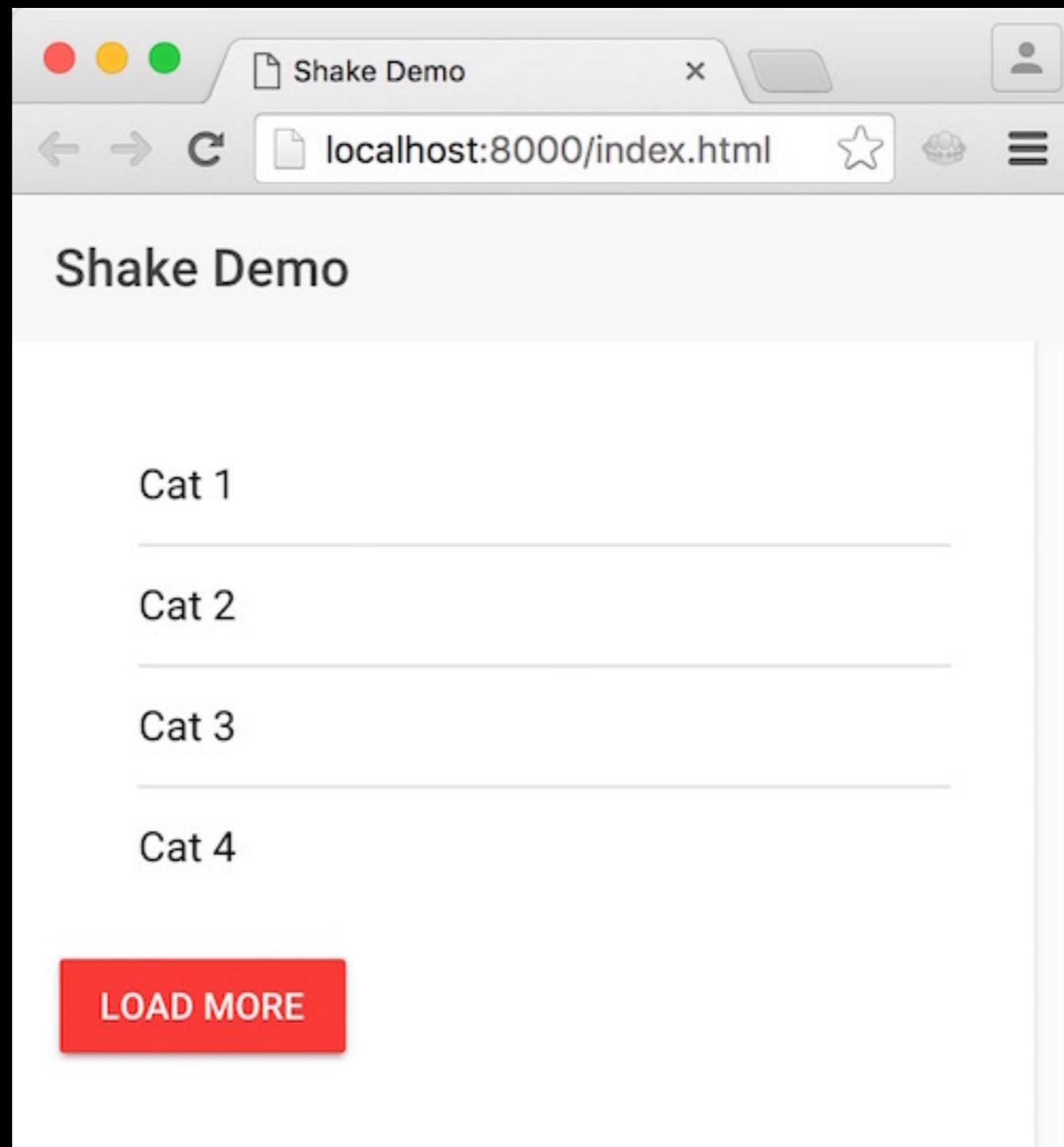
Animal

Meat Eater

Vertebrate

Nature Scene

Placental Mammal



Carrier

10:58 AM



OMG Kittens

What is best?



HIT ME

See them driven before you

Hear the lamentations of their women

Crush your enemies



N

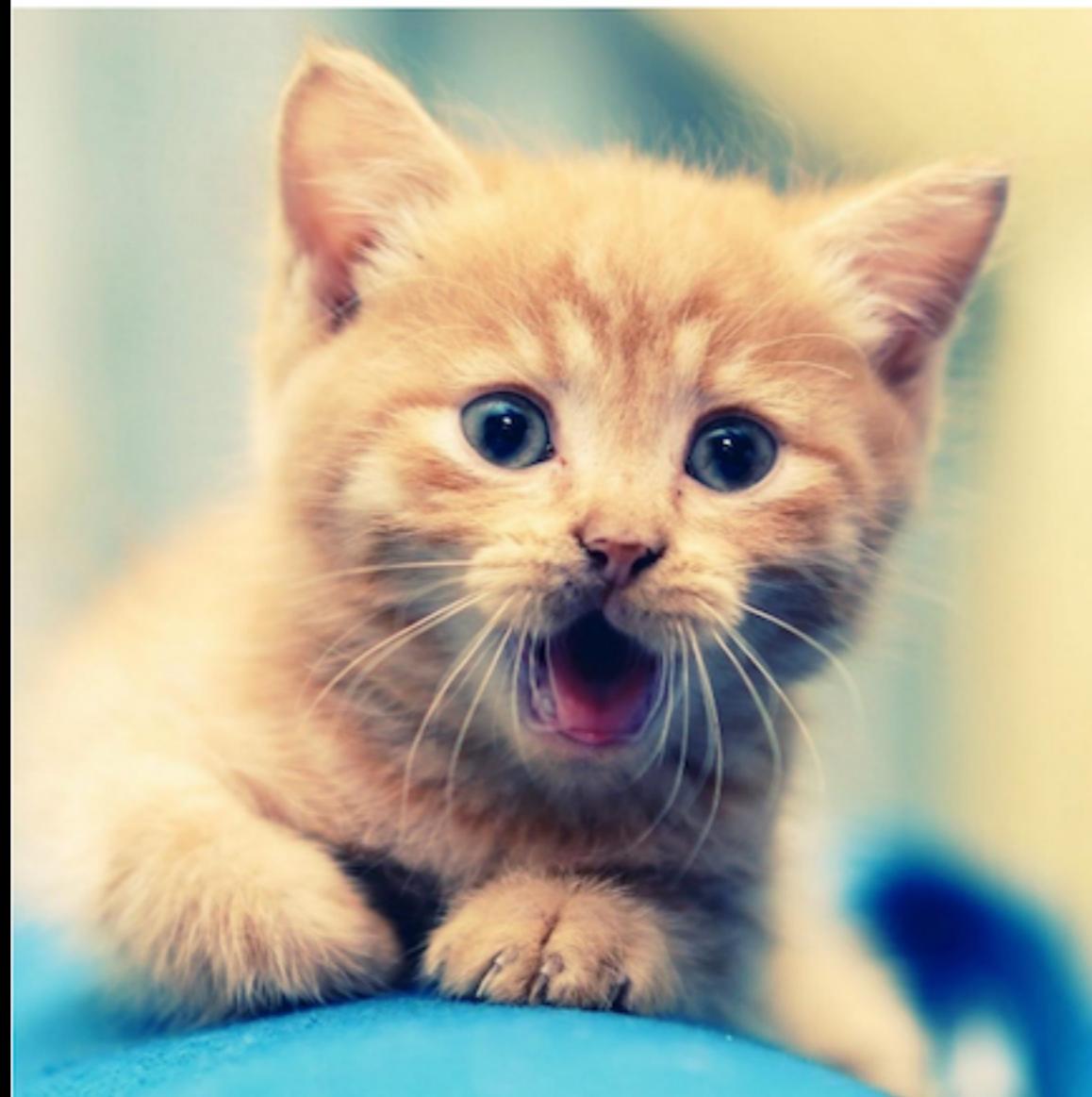
Carrier

4:54 PM



Camera Demo

Select Picture



Take aways

- Look for technology that enables your creativity
- Don't ask if it makes sense
- Build stupid crap

