

PIE CHART: A REFINEMENT

John Pazmino
NYSkies Astronomy Inc
www.nyskies.org
nyskies@nyskies.org
1983 Novmeber 1

This article adds to wrlrier one by Oblander. His piece follows below it.

Pie Chart: A Refinement

Syntax

Author(s): John Pazmino

Date: November 1983

Volume: 4 Issue: 11

Page(s): 22

Refining Ron Oblander's chart (Nov. 82) makes it run faster and puts table and chart on 1 display.

Refining Ron Oblander's chart (Nov.82) makes it run faster and puts table and chart on 1 display. But, it omits the segment titles. After entering PC, SAVE using GOTO 970. It comes up running and stops with a 9 report. For another chart, RUN again.

After a title screen, PC asks the number of segments. You enter up to 18, the most the table holds on one screen. Then enter segment values one by one. After the last value, the computer shifts to FAST for about 6 seconds to produce the pie outline and table heading. Now in SLOW, the computer lays in the segments and table. At the end you can COPY the screen to a printer.

On the chart, segment 1 starts at the 12 o'clock position; others follow serially clockwise. The table gives segment number, value, percent of pie, & total of values.

Variables Q and R control pie position and radius. PC puts the pie in the lower right corner with an 18-pixel radius. The trig work exploits ZX/TS's internal MOD

```
120 FOR P=N0 TO 6.3 STEP 0.056
140 PLOT Q+SIN P*R,R+COS P*R
200 NEXT P
205 PRINT AT N0,N0;"SEG";TAB 4;
      "VAL ";TAB 10;"0/0"
217 SLOW
220 FOR I=1 TO C
230 LET Z=E(I)*2*PI/T
405 LET W=Z+W
410 LET M=SIN W
420 LET N=COS W
560 FOR J=N0 TO R
570 PLOT Q+M*J,R+N*J
580 NEXT J
920 PRINT AT I,N0,I;TAB 4;E(I);
      TAB 10;INT (E(I)*100/T+0.5)
930 NEXT I
960 PRINT TAB 4;"----";TAB N0;"
SUM " T
965 STOP
970 SAVE "PIECHAR"
980 RUN
SYNTACTIC SUM: 38512, 8K ROM
```

CLASSIFIED ADS: Reach thousands of ZX/TS users--just \$9/line! We must receive your typed copy (35 characters per line) with check or money order by the 15th for publication in the next issue. We print ad exactly as you type it. No fractions or cent symbols. Include your phone number, SYNTAX, Classified, RD 2, Box 457, Harvard, MA 01451.

INTRO TO COMPUTER PROGRAMMING FOR

position and radius. PC puts the pie in the lower right corner with an 18-pixel radius. The trig work exploits ZX/TS's internal MOD feature. One array, E(C), holds each segment value. I serves as index variable in two loops. You can use tokens in the print statements (Syntactic Sum here is for words spelled out.--AZ). Variable N0 carries the number 0.

John Pazmino, Brooklyn, NY

```

1 LET N0=0
2 PRINT AT 10,N0;"PIECHART FO
R UP TO 18 SEGMENTS"
3 PAUSE 2000
4 CLS
5 LET T=N0
6 LET R=18
10 LET Q=45
12 LET W=N0
15 PRINT " INPUT NUM OF SEG:"
20 INPUT C
22 DIM E(C)
26 FOR I=1 TO C
41 PRINT " THEN INPUT VAL FOR
SEG ",I," "
42 INPUT E(I)
45 CLS
57 LET T=T+E(I)
59 NEXT I

```

phone number, SYNTAX, Classified,
RD 2, Box 457, Harvard, MA 01451.

INTRO. TO COMPUTER PROGRAMMING FOR
INFO. SERVICES (TS1000/1500). \$20.
UCLA Course Notes. MC/VISA (213)
760-8110. Cibbarelli, 11684 Ventura
#295, Studio City, CA 91604.

SERVICE from SYNTAX:	\$ US
o Zilog Z80-Z80A Tech. Man	7.88
o Zilog Assy Lang Prog Man	15.75
o Crash Course in Micros Hardware and Mach Lang	19.95
o Exper. in Artfcl Intell AI Programs for Micros	9.95
o Plastic Micro Charts	
Z80 CPU	5.95
8080A & 8085A	5.95
8048 & RELATIVES	5.95
6502 (65XX)	5.95
BASIC ALGORITHMS	5.95
Any 5 charts for	24.95
Shipping & handling charges:	
Micro Charts \$1/order	
Books (except Zilog) \$1.50/book	
ORDER by telephone:	617/456-3661
PAY by	MC/VISA/AMEX/DINERS

22

=====

Pie Chart Graph and Display

Syntax

Author(s): Ron Oblander

Date: November 1982

Volume: 3 Issue: 11

Page(s): 6-7

Program draws a pie chart graph with up to 10 sections.

Refining Ron Oblander's chart (Nov.82) makes it run faster and puts table and chart on 1 display. But, it omits the segment titles.

After entering PC, SAVE using GOTO 970. It comes up running and stops with a 9 report. For another chart, RUN again.

After a title screen, PC asks the number of segments. You enter up to 18, the most the table holds on one screen. Then enter segment values one by one. After the last value, the computer shifts to FAST for about 6 seconds to produce the pie outline and table heading. Now in SLOW, the computer lays in the segments and table. At the end you can COPY the screen to a printer.

On the chart, segment 1 starts at the 12 o'clock position; others follow serially clockwise. The table gives segment number, value, percent of pie, & total of values.

Variables Q and R control pie position and radius. PC puts the pie in the lower right corner with an 18-pixel radius. The trig work exploits ZX/Ts's internal MOD

```

120 FOR P=N0 TO 6.3 STEP 0.055
140 PLOT Q+SIN P*R,R+COS P*R
200 NEXT P
205 PRINT AT N0,N0;"SEG";TAB 4;
"VAL ";TAB 10;"0/0"
217 SLOW
220 FOR I=1 TO C
230 LET Z=E(I)*2*PI/T
405 LET W=Z+W
410 LET M=SIN W
420 LET N=COS W
450 FOR J=N0 TO R
70 PLOT Q+M*J,R+N*J
80 NEXT J
900 PRINT AT I,N0,I;TAB 4;E(I)
TAB 10;INT (E(I)*100/T+0.5)
930 NEXT I
950 PRINT TAB 4;"----";TAB N0;"
SUM " I
965 STOP
970 SAVE "PIECHAR"
980 RUN
SYNTACTIC SUM: 38512, 8K ROM

```

CLASSIFIED ADS: Reach thousands of ZX/TS users--just \$9/line! We must receive your typed copy (35 characters per line) with check or money order by the 15th for publication in the next issue. We print ad exactly as you type it. No fractions or cent symbols. Include your phone number, SYNTAX, Classified, RD 2, Box 457, Harvard, MA 01451.

INTRO TO COMPUTER PROGRAMMING FOR