

# TALKING TURKEY

**This program has decided that although the English language does not exist, some of its rules do.**

Using these rules, the computer tries to invent English words, and manages to do so surprisingly often. Around seven per cent of the output of this program — written by Paul Holmes — should be real words. The ZX81 uses knowledge of the frequency of occurrence of certain letters in words in English to

dictate how often the letters are used in creating randomly generated words.

If you leave this program running for a million years it may well write the Gettysburg Address ('Three score and seven years ago our fathers founded...').

## PROGRAM LISTING

```

10 DIM A$(26,23)
20 LET A$(1)="TNIRSHMGBBCDFJLKP
QUAUVWXYZ"
25 LET A$(2)="EAOIU"
30 LET A$(3)="ETAOISHU"
35 LET A$(4)=A$(3)
40 LET A$(5)="ETANRSHMGBBCDFJL
POUUVWXYZ"
50 LET A$(6)=A$(2)
60 LET A$(7)="EAOISHU"
70 LET A$(8)=A$(2)
80 LET A$(9)="TEONRSHMGBBCDFJL
POUUVWXYZ"
90 LET A$(10)=A$(2)
100 LET A$(11)=A$(2)
110 LET A$(12)=A$(2)
120 LET A$(13)=A$(2)
130 LET A$(14)=A$(2)
140 LET A$(15)="TAONIRSHMGBBCDFK
JLPQUUVWXYZ"
150 LET A$(16)=A$(2)
160 LET A$(17)="U"
170 LET A$(18)=A$(2)
180 LET A$(19)="EAOIUH"
190 LET A$(20)=A$(2)
200 LET A$(21)="AO"
210 LET A$(22)=A$(2)
220 LET A$(23)=A$(2)
240 LET A$(24)=A$(2)
250 LET A$(25)=A$(2)
260 LET A$(26)=A$(2)
265 LET L=INT (3+RND*INT (RND*4
+1))
270 LET X=INT (RND*26+1)
280 FOR I=1 TO L
290 PRINT CHR$(X+37);
300 LET C=CODE A$(X,(INT (RND*I
NT (RND*23)+1)))
310 IF C=0 THEN GOTO 300

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320 LET X=C-37
330 NEXT I
340 IF INKEY$="" THEN GOTO 340
345 CLS
350 GOTO 265

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A 'poetry' version of the program:

```

5 REM "POETRY" VERSION
10 DIM A$(26,23)
20 LET A$(1)="TNIRSHMGBBCDFJLKP
QUAUVWXYZ"
25 LET A$(2)="EAOIU"
30 LET A$(3)="ETAOISHU"
35 LET A$(4)=A$(3)
40 LET A$(5)="ETANRSHMGBBCDFJL
POUUVWXYZ"
50 LET A$(6)=A$(2)
60 LET A$(7)="EAOISHU"
70 LET A$(8)=A$(2)
80 LET A$(9)="TEONRSHMGBBCDFJL
POUUVWXYZ"
90 LET A$(10)=A$(2)
100 LET A$(11)=A$(2)
110 LET A$(12)=A$(2)
120 LET A$(13)=A$(2)
130 LET A$(14)=A$(2)
140 LET A$(15)="TAONIRSHMGBBCDFK
JLPQUUVWXYZ"
150 LET A$(16)=A$(2)
160 LET A$(17)="U"
170 LET A$(18)=A$(2)
180 LET A$(19)="EAOIUH"
190 LET A$(20)=A$(2)
200 LET A$(21)="AO"
210 LET A$(22)=A$(2)
220 LET A$(23)=A$(2)
240 LET A$(24)=A$(2)
250 LET A$(25)=A$(2)
260 LET A$(26)=A$(2)
262 FOR G=1 TO 100
265 LET L=INT (3+RND*INT (RND*4
+1))
270 LET X=INT (RND*26+1)
275 SCROLL
277 FOR H=1 TO RND*5+2
280 FOR I=1 TO L
290 PRINT CHR$(X+37);
300 LET C=CODE A$(X,(INT (RND*I
NT (RND*23)+1)))
310 IF C=0 THEN GOTO 300
320 LET X=C-37
330 NEXT I
332 IF L<5 THEN LET L=L+INT (RN
D*2)-INT (RND*2)
335 PRINT " ";
336 NEXT H
337 IF RND>.8 THEN SCROLL
340 NEXT G
350 GOTO 262

```

Part of the output:

AIBO	YOP	AMA
DTEH	DEN	SUABA
TOO	LOT	DTAKA
UOTI	VEE	HACA
NEFAIT	NIT	MAT
REE	HUA	INAX
HUAH	RERA	XIO
BIE	TEGO	SOM
YINOR	PEAGH	SITE
YIE	UEF	LUOO
JEC	NUA	SEX
BATU	IEB	PIG
JIT	CET	ZEXE
RIH	NIO	ZOT
OGI	SAT	ZOGAN
RAC	UARIB	BED
IES	TEM	XAN
KITE	SHAG	FENE
LIO	KOR	BAUAN
BAHETA	HEMI	TAMA
KASITA	LUO	DTAC
LU		HAC