

Wordgram (Model A)

Two versions of a very popular wordgame. Watch the letters move about the screen as you try to solve the JUMBLED game. The program allows you to select 'word endings' - a technique used frequently by crossword experts. You may also enter your own words for solution by someone else.

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1  REM *** BBC VERSION ***
10 GOTO 500
20 ** WORDGRAM **
30 CONVERTED & MODIFIED FOR BBC MICRO
40   BY Max lang                29 June 1983
50   :
60   FROM A SPECTRUM PROGRAM
70   BY MICHAEL BEWS
80   :
90   :
100  ROUTINE INDEX
110  -----
120  MAIN PROGRAM:.....500
130  INITATE:.....1000
140  OPTIONS:.....1200
150  OWNWORD:.....1400
160  VALIDATE:.....1500
170  GAME CHOICE:.....1600
180  NORMAL:.....1700
190  JUMBLED:.....2000
200  SETUP:.....2300
210  GUESS:.....2500
220  RESIGN:.....2700
230  NO:.....2800
240  YES:.....2900
250  CHECK:.....3000
260  RETURN:.....3100
270  ENDING:.....3300
280  MOVE LETTER:.....3500
290  INSTRUCTIONS:.....3600
300  TITLE:.....10000
310  WAIT:.....10200
320  YN:.....10300
330  SPACEBAR:.....10500

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340    BYE:.....10600
350    CHAR:.....20000
360    SHUFFLE:.....20100
370    ::::::::::::::::::::::::::::::
500    REM MAIN PROGRAM
510    MODE 7
520    PROC_TITLE("** WORDGRAM **",1)
530    PROC_INITIATE
540    PROC_OPTIONS
550    GOTO 1610
560    PRINT TAB(0,23)"Another go ? (Y/N) ";
570    PROC_YN
580    IF YES THEN PRINT "Yes"; ELSE PRINT "
No";
590    PROC_WAIT(150)
600    IF YES THEN GOTO 540
610    PROC_BYE
620    ::::::::::::::::::::::::::::::
1000   DEF PROC_INITIATE
1010   DIM D$(7,12)
1020   RESTORE 1100
1030   FOR X=1 TO 7
1040       FOR Y=1 TO 12
1050           READ D$(X,Y)
1060       NEXT Y
1070   NEXT X
1080   RG=0:      REM WORDS RIGHT
1090   ENDPROC
1100   DATA GATE, LINK, BUSH, EDGE, PLAN, AUNT, PI
NE, LEAF, WITH, MILE, STEP, PEST
1110   DATA CHAIR, NIECE, GRASS, PIANO, CELLO, RA
DIO, NYLON, MANOR, BRICK, APPLE, RIVER, SPICE
1120   DATA FAMILY, PALACE, PLAQUE, CINEMA, WIND
OW, FLOWER, FATHER, SISTER, FRIEND, PEANUT, MINUTE,
MIDDLE
1130   DATA PENDANT, OMNIBUS, CARAVAN, FEATHER,
DIAMOND, MASONRY, CHIMNEY, PACKAGE, MUSTARD, SWALL
OW, BICYCLE, BISCUIT
1140   DATA CHILDREN, NECKLACE, POSTCARD, PANOR
AMA, MATERIAL, FARMYARD, BLUEBELL, THOUSAND, PROSP
ECT, ELECTION, MULTIPLY, DIVIDEND
1150   DATA WATERFALL, FURNITURE, BOOKSHELF, AE
ROPLANE, PINEAPPLE, NEWSPAPER, GRAPEVINE, DESTITU
TE, FANTASTIC, PHOTOCOPY, DORMITORY, TELEPHONE
1160   DATA BENEFactor, HEREDITARY, PARLIAMENT
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, ELEMENTARY, GREENHOUSE, STRAWBERRY, SOMERSAULT,
 SUPPLEMENT, HENCEFORTH, ELECTRICAL, COMPENSATE, G
 RADUATION

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1170      ::::::::::::::::::::::::::::::::::::::
1200      DEF PROC_OPTIONS
1210      CLS
1220      PRINT TAB(0,1) "WORDGRAM"
1230      PRINT "-----"
1240      PRINT:PRINT "You have the following o
ptions :-"
1250      PRINT:PRINT "A) Press any number betw
een 4 and 9 for      the minimum number of lett
ers that      you require the word to contain
."
1260      PRINT:PRINT "B) Press B for a word co
ntaining less      than seven letters."
1270      PRINT:PRINT "C) Press C if you want t
o use your own      word."
1280      PRINT TAB(20,16);
1290      P=FN_CHAR("456789BC")
1300      IF P=8 THEN PROC_OWNWORD:ENDPROC
1310      IF P=7 THEN R=RND(3) ELSE R=RND(8-P)+
P-1
1320      RR=RND(12)
1330      WORD$=D$(R,RR)
1340      ENDPROC
1350      ::::::::::::::::::::::::::::::::::::::
1400      DEF PROC_OWNWORD
1410      PRINT TAB(0,18) "Enter your own word (
in CAPITALS)"
1420      INPUT WORD$
1430      PROC_VALIDATE(WORD$)
1440      IF valid THEN ENDPROC
1450      PRINTTAB(0,18) "Invalid character - ag
ain in CAPITALS
1460      PROC_WAIT(200)
1470      PRINT TAB(0,19) STRING$(40, " "):PRINT
TAB(0,19);
1480      GOTO 1420
1490      ::::::::::::::::::::::::::::::::::::::
1500      DEF PROC_VALIDATE(V$)
1510      valid=-1
1520      FOR X=1 TO LEN(V$)
1530          M=ASC(MID$(V$,X,1))
1540          IF M<65 OR M>90 THEN valid=0

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1550     NEXT X
1560     ENDPROC
1570     ::::::::::::::::::::::::::::::::::::
1600     DEF PROC_GAME_CHOICE
1610     PRINT TAB(0,21)"Do you require 1) Nor
mal game"
1620     PRINT "          OR          2) Jumbled game
"
1630     F=FN_CHAR("12")
1640     PROC_WAIT(150)
1650     IF F=1 THEN PROC_NORMAL ELSE PROC_JUM
BLED
1660     REM
1670     GOTO560
1680     ::::::::::::::::::::::::::::::::::::::
1700     DEF PROC_NORMAL
1710     PROC_SETUP("NORMAL")
1720     PRINT TAB(0,17)"GUESSES MADE"
1730     GM=0
1740     PRINT TAB(13,17);GM:PRINT TAB(0,14)ST
RING$(40," ")
1750     PRINT TAB(0,12)"Press SPACEBAR to gue
ss word          TAB to resign"
1760     *FX21,0
1770     G=GET
1780     PRINT TAB(0,12)STRING$(80," ")
1790     IF G=32 THEN PROC_GUESS:GOTO 1930
1800     IF G=9 THEN PROC_RESIGN:ENDPROC
1810     G=G+32*(G>95): REM CONVERT TO CAPITAL
S
1820     IF G<65 OR G>90 THEN GOTO 1750
1830     GM=GM+1
1840     G$=CHR$(G)
1850     IF INSTR(GUES$,G$) THEN PRINT TAB(0,1
2)"ALREADY GUESSED CORRECTLY":GOTO 1930
1860     IF TRIED$="" THEN GOTO 1880:REM KNOWN
BUG IN OS1.2
1870     IF INSTR(TRIED$,G$) THEN PRINT TAB(
0,12)"ALREADY GUESSED INCORRECTLY":GOTO 1930
1880     P=INSTR(WORD$,G$)
1890     IF P=0 THEN PROC_NO:GOTO 1930
1900     PROC_YES:IF P=LW THEN GOTO 1930
1910     P=INSTR(WORD$,G$,P+1)
1920     IF P<>0 THEN GOTO 1900
1930     PROC_WAIT(150)
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1940    PROC_CHECK
1950    IF NOT CORRECT THEN GOTO 1740
1960    RG=RG+1
1970    PRINT TAB(13,17);GM;" WORDS RIGHT ";R
G
1980    ENDPROC
1990    ::::::::::::::::::::::::::::::::::::
2000    DEF PROC_JUMBLED
2010    PROC_SETUP("JUMBLED")
2020    J$=FN_SHUFFLE(WORD$)
2030    LFT$=J$
2040    FOR X=1 TO LW
2050        PRINT TAB(2*X,6);MID$(J$,X,1)
2060    NEXT X
2070    PRINT TAB(0,12)"Press TAB to resign"
2080    PRINT TAB(7,13)"(1) to return letter"
2090    PRINT TAB(7,14)"(2) to shift letters
to end"
2100    PRINT TAB(0,10);STRING$(40," ")
2110    PRINT TAB(0,10);
2120    G=GET
2130    IF G=9 THEN PROC_RESIGN:ENDPROC
2140    IF G=49 THEN PROC_RETURN
2150    IF G=50 THEN PROC_ENDING
2160    G=G+32*(G>95): REM CONVERT TO CAPITAL
S
2170    IF G<65 OR G>90 THEN GOTO 2120
2180    G$=CHR$(G)
2190    P=INSTR(LFT$,G$)
2200    IF P=0 THEN PRINT TAB(10,10)"No ";G$;
"s remaining":PROC_WAIT(200):GOTO 2100
2210    PROC_MOVE_LETTER
2220    PROC_CHECK
2230    IF INSTR(GUES$," ")=0 AND NOT CORRECT
THEN GOTO 2010
2240    IF NOT CORRECT THEN GOTO 2100
2250    PRINT STRING$(80," ")
2260    ENDPROC
2270    ::::::::::::::::::::::::::::::::::::
2300    DEF PROC_SETUP(T$)
2310    CLS
2320    PRINT TAB(0,1)"WORDGRAM - ";T$;" GAME
"
2330    PRINT "-----"
2340    LW=LEN(WORD$)

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2350     FOR X=1 TO LW
2360         PRINT TAB(2*X,5) "-"
2370     NEXT X
2380     TRIED$=""
2390     GUES$=STRING$(LW," ")
2400     O$=""
2410     ENDPROC
2420     ::::::::::::::::::::::::::::::::::::::
2500     DEF PROC_GUESS
2510     PRINT TAB(0,12)"Enter your guess word
now"
2520     PRINT TAB(0,14);
2530     PRINT TAB(0,14)STRING$(40," ")
2540     PRINT TAB(0,14);
2550     INPUT GW$
2560     PROC_VALIDATE(GW$)
2570     IF valid THEN GOTO 2610
2580     PRINT TAB(0,12)"Invalid character - e
n
ter again"
2590     PROC_WAIT(150)
2600     GOTO 2520
2610     IF GW$<>WORD$ THEN PRINT TAB(0,12)"WR
ONG WORD - KEEP TRYING
OC
2620     GUES$=GW$
2630     FOR X=1 TO LW
2640         PRINT TAB(2*X,4);MID$(GUES$,X,1)
2650     NEXT X
2660     GM=GM+1
2670     ENDPROC
2680     ::::::::::::::::::::::::::::::::::::::
2700     DEF PROC_RESIGN
2710     FOR X=1 TO LW
2720         PRINT TAB(2*X,4)MID$(WORD$,X,1)
2730     NEXT X
2740     FOR X=1 TO 3:SOUND1,-15,12-3*X,20:SOU
ND0,-10,6,20:NEXT X
2750     ENDPROC
2760     ::::::::::::::::::::::::::::::::::::::
2800     DEF PROC_NO
2810     PRINT TAB(2,12)"NO"
2820     SOUND1,-15,3,0:
2830     TRIED$=TRIED$+G$
2840     PRINT TAB(0,6)TRIED$
2850     ENDPROC
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2860      ::::::::::::::::::::::::::::::::::::
2900      DEF PROC_YES
2910      PRINT TAB(0,12)"** YES **"
2920      SOUND1,-15,120,20
2930      GUES$=LEFT$(GUES$,P-1)+G$+MID$(GUES$,
P+1)
2940      PRINT TAB(2*P,4)G$
2950      ENDPROC
2960      ::::::::::::::::::::::::::::::::::::
3000      DEF PROC_CHECK
3010      CORRECT=0
3020      IF GUES$=WORD$ THEN CORRECT=-1 ELSE E
NDPROC
3030      PRINT TAB(0,12);CHR$(136);"      ** CO
RRECT **      "
3040      PRINT STRING$(80," ")
3050      FOR X=1 TO 150:SOUND1,-15,5*X,1:NEXT
X
3060      ENDPROC
3070      ::::::::::::::::::::::::::::::::::::
3100      DEF PROC_RETURN
3110      IF O$="" THEN ENDPROC
3120      P=ASC(O$)-32
3130      O$=MID$(O$,2)
3140      G$=MID$(GUES$,P,1)
3150      PRINT TAB(2*P,4)" "
3160      GUES$=LEFT$(GUES$,P-1)+" "+MID$(GUES$
,P+1)
3170      X=0
3180      X=X+1
3190      IF MID$(LFT$,X,1)<>" " THEN GOTO 3180
3200      LFT$=LEFT$(LFT$,X-1)+G$+MID$(LFT$,X+1
)
3210      PRINT TAB(2*X,6)G$
3220      ENDPROC
3230      ::::::::::::::::::::::::::::::::::::
3300      DEF PROC_ENDING
3310      T$=""
3320      X=0
3330      X=X+1
3340      IF MID$(GUES$,X,1)<>" " THEN T$=T$+MI
D$(GUES$,X,1)
3350      IF X<LW THEN GOTO 3330
3360      GUES$=STRING$(LW-LEN(T$)," ")+T$
3370      FOR X=1 TO LW

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3380      PRINT TAB(2*X,4)MID$(GUES$,X,1)
3390      NEXT X
3400      ENDPROC
3410      ::::::::::::::::::::::::::::::::::::
3500      DEF PROC_MOVE_LETTER
3510      LFT$=LEFT$(LFT$,P-1)+" "+MID$(LFT$,P+
1)
3520      PRINTTAB(2*P,6)" "
3530      P=INSTR(GUES$," ")
3540      PRINT TAB(2*P,4)G$
3550      GUES$=LEFT$(GUES$,P-1)+G$+MID$(GUES$,
P+1)
3560      O$=CHR$(P+32)+O$
3570      ENDPROC
3580      ::::::::::::::::::::::::::::::::::::::
3600      DEF PROC_INSTRUCT
3610      CLS
3620      PRINT TAB(0,1)"WORDGRAM"
3630      PRINT "-----"
3640      PRINT:PRINT "This game has two option
s"
3650      PRINT:PRINT "      1) To try to guess a
hidden word - as      in HANGMAN. I will keep
a check      of the letters that you have
used."
3660      PRINT "      2) To try to sort out a jum
bled word."
3670      PRINT "You can set your own words or
I will      choose one for you if you tell me h
ow      hard or easy you want it."
3680      PROC_SPACEBAR
3690      ENDPROC
3700      ::::::::::::::::::::::::::::::::::::::
10000     DEF PROC_TITLE(T$,I):REM I=0 - NO INS
TRUCTION OPTION, I=1 - OPTION
10010     CLS
10020     PRINT TAB(1,1)"Max Lang"
10030     PRINTTAB(19-LEN(T$)/2,10)CHR$(141);T$
10040     PRINTTAB(19-LEN(T$)/2,11)CHR$(141);T$
10050     PROC_WAIT(150)
10060     IF I=0 THEN ENDPROC
10070     PRINT TAB(0,22)"Do you require instru
ctions ? ";
10080     PROC_YN
10090     IF YES THEN PRINT "Yes"; ELSE PRINT "
```



```

No";
10100 PROC_WAIT(150)
10110 IF YES THEN PROC_INSTRUCT
10120 ENDPROC
10130 ::::::::::::::::::::::::::::::::::::::
10200 DEF PROC_WAIT(T)
10210 LOCAL NOW
10220 NOW=TIME
10230 REPEAT
10240 UNTIL TIME=NOW+T
10250 ENDPROC
10260 ::::::::::::::::::::::::::::::::::::::
10300 DEF PROC_YN
10310 *FX21,0
10320 LOCAL G
10330 REPEAT
10340 G=GET
10350 G=G+32*(G>95): REM CONVERT TO CAPIT
ALS
10360 YES=(G=89)
10370 NO=(G=78)
10380 UNTIL YES OR NO
10390 ENDPROC
10400 ::::::::::::::::::::::::::::::::::::::
10500 DEFPROC_SPACEBAR
10510 PRINT TAB(0,23)"Press SPACEBAR to con
tinue";
10520 LOCAL G
10530 *FX21,0
10540 REPEAT
10550 G=GET
10560 UNTIL G=32
10570 CLS
10580 ENDPROC
10590 ::::::::::::::::::::::::::::::::::::::
10600 DEF PROC_BYE
10610 CLS
10620 PRINT TAB(18,10)CHR$(141);"BYE"
10630 PRINT TAB(18,11)CHR$(141);"BYE"
10650 END
10660 ::::::::::::::::::::::::::::::::::::::
20000 DEF FN_CHAR(C$)
20010 LOCAL P,G$
20020 REPEAT
20030 G$=GET$

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20040      P=INSTR(C$,G$)
20050      UNTIL P<>0
20060      PRINT G$;
20070      =P
20080      ::::::::::::::::::::::::::::::::::::
20100      DEF FN_SHUFFLE(S$)
20110      LOCAL L,X,R1,R2,R1$,R2$
20120      L=LEN(S$)
20130      FOR X=1 TO L
20140          R1=RND(L)
20150          R2=RND(L)
20160          R1$=MID$(S$,R1,1)
20170          R2$=MID$(S$,R2,1)
20180          S$=LEFT$(S$,R1-1)+R2$+MID$(S$,R1+1)
20190          S$=LEFT$(S$,R2-1)+R1$+MID$(S$,R2+1)
20200      NEXT X
20210      =S$
20220      ::::::::::::::::::::::::::::::::::::
```