



Ed Stewart and Ray Lyons

LETTERMAN

A non-violent hangman game for 1-2 players (ages 8 and up)

Cassette: 16K (APX-10096) Diskette: 32K (APX-20096)

User-Written Software for ATARI Home Computers

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INTRODUCTION

OVERVIEW

LETTERMAN is a word guessing game similar to hangman—except no one is hanged! Instead, LETTERMAN uses lively animation, colorful graphics, and sound effects to provide an exciting learning experience. The program contains more than 400 words in three difficulty levels. Either the computer can select a secret word from this list or a friend can type in a word for you to guess. You have six turns in which to guess the word, one letter at a time. You guess by typing in a letter on your computer keyboard and watching the results.

Owing to different computer memory requirements, the cassette and diskette versions differ slightly. Both work as described above. However, the diskette version offers some added features. You can request hints if you get stuck. You can choose to play under a time limitation for making each guess. And, the program can keep track of as many as nine players' turns and scores.

When you're familiar with the 400 words in the program's list, you can continue to enjoy LETTERMAN by adding to (if your system has 24K of RAM for the cassette version or 32K of RAM for the diskette version) or revising the list, following the instructions in this manual.

REQUIRED ACCESSORIES

Cassette version

16K RAM ATARI 410 Program Recorder

Diskette version

32K RAM ATARI 810 Disk Drive

ATARI BASIC Language Cartridge

CONTACTING THE AUTHORS

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GETTING STARTED

LOADING LETTERMAN INTO COMPUTER MEMORY

- 1. Insert the ATARI BASIC Language Cartridge in the (Left Cartridge) slot of your computer.
- 2. If you have the cassette version of LETTERMAN:
 - a. Turn on your TV set.
 - b. Turn on your computer and connect your program recorder to the computer and to a wall outlet.
 - c. Slide the LETTERMAN cassette into the program recorder's cassette holder and press REWIND on the recorder until the tape rewinds completely. Then press PLAY.
 - d. Type CLOAD on your computer and then press the RETURN key two times. The tape will load into computer memory.
 - e. After the tape finishes loading, the word READY will display on your TV screen. Type RUN and press the RETURN key. The first display screen will appear on your TV screen.

If you have the diskette version of LETTERMAN: .

- a. Turn on your disk drive.
- b. When the BUSY light goes out, open the disk drive door and insert the LETTERMAN diskette with the label in the lower right-hand corner nearest to you. Close the door.
- c. Turn on your computer and TV set.
- d. When the READY prompt displays on your TV screen, type RUN "D:LTTRMAN" and press the RETURN key. If you're using more than one disk drive, remember to follow the device initial (D) with the number of the drive containing the LETTERMAN diskette (e.g., RUN "D2:LTTRMAN" for disk drive two). The program will load into computer memory and start.

FIRST DISPLAY SCREEN

After a few seconds, LETTERMAN welcomes you with a special musical greeting and title display. Then you select your option(s)—word difficulty level (and for the diskette version, whether to have hints, the number of players, and whether to have a time limitation).

SELECTING WORD DIFFICULTY LEVEL.

The WORD LEVEL option menu appears immediately after the introduction. It looks roughly like this:

SELECT WORD LEVEL
EASY
SO-SO
GOOD LUCK
THEN PRESS START

The orange word (or the lighter shade, if your screen is black and white) indicates your currently selected option. Press the SELECT key to change the level until the one you want displays in orange; then press START to go on to the next option.

[For diskette version only--HINTS, NUMBER OF PLAYERS, and TIME LIMIT options]

The diskette version of LETTERMAN next asks you to indicate whether you want to play with hints. Press the SELECT key to choose your option (HINTS or NO HINTS), and then press START to continue.

Next, the program asks you to enter the number of players. Your choices are "1 PLAYER" and "2 OR MORE PLAYERS". Press the SELECT key to choose your option and then press the START key to continue.

A third option in the diskette version asks you to indicate whether you want a time limit per guess. Using a time limit can help make a game more fair. Your choices are TIME LIMIT and NO TIME LIMIT. Press the SELECT key to choose your option and then press the START key to continue.

If you chose 2 OR MORE PLAYERS for the SELECT PLAYERS option, the program will now ask you to enter the number of players. Enter a number between 2 and 9 (pressing the RETURN key isn't necessary).

If you chose a TIME LIMIT, the program will next ask you to enter how many <u>seconds</u> you want the limit to be. Enter your number and press the RETURN key to go on to the final option.

SELECTING THE SECRET WORD

[Note for diskette version. If you choose the 2 OR MORE PLAYERS option, you'll hear a tone and the number of the player flashes on the lower left of your TV screen.]

LETTERMAN next asks you to select a secret word. The prompt is "ENTER A SECRET WORD...OR SELECT A WORD". You have two choices. You may either enter the secret word yourself (or have another player do so for you to guess), or you may have LETTERMAN pick a word for you to guess.

1. Entering the secret word yourself. You may type a word on your keyboard. When you enter your secret word, it won't display on the TV screen. Instead, blue dashes (or dark shading for black and white TV screens) display, one dash for each letter you type. Your word can be as long as 15 letters. Don't use numbers, punctuation, CTRL characters, or other keys. A buzzer will sound if you press any key other than a letter.

You can erase a letter by backspacing with the DELETE/BACK S key. When you've entered the word correctly, press the START key to begin playing. (Note. You can change your mind and have LETTERMAN select your secret word instead by pressing the SELECT key at any time before pressing the START key. The program will then ignore anything you've typed in and pick a word for you.)

2. <u>Letting the computer select the secret word</u>. To tell LETTERMAN to pick a secret word for you, press the SELECT key. LETTERMAN will select a word randomly from the difficulty level you chose in an earlier option. Orange (or light shading for black and white TV screens) dashes representing the number of letters in the secret word display on the screen. (<u>Note</u>, Once you tell LETTERMAN to select a word for you, you can't change your mind and enter your own.)

LETTERMAN won't repeat words during a game session. However, it may do so if you rerun the program.

PLAYING LETTERMAN

GUESSING THE SECRET WORD

Once you've picked your options, the alphabet displays at the top of your TV screen. For the cassette version and for the 1 PLAYER option in the diskette version, a "W" (for "wins") and "L" (for "losses") displays to the right of the alphabet for scoring. For the 2 OR MORE PLAYERS in the diskette version, the "W"/"L" information displays briefly at the bottom right of the screen following each player's turn.

It's now your turn to guess a letter. Type in any letter (letters only). If your letter is part of the secret word, the letter replaces the dash(es) corresponding to where it belongs in the word (it can replace one or more dashes), and it also disappears from the alphabet display. LETTERMAN does a little "dance for joy", since your correct guess has kept the arrow from coming closer to his juicy apple! However, if you guess incorrectly, the arrow swishes towards the apple on LETTERMAN's head and the letter you chose disappears from the alphabet display.

You may make six (6) incorrect guesses before LETTERMAN ends your turn and displays the secret word.

Hints in diskette version

If you selected the HINTS option, why not try one when you get stuck? Type in a question mark by pressing SHIFT +? and then watch the screen. LETTERMAN chooses the hints and may give you the same hint twice (too bad . . .). Here are the kinds of hints you can expect:

FIRST LETTER = (first letter of secret word)
LAST LETTER = (last letter of secret word)

* VOWELS = (total A,E,I,O,U, and Y's in the word)

* HARD ONES = (total J, Q, V, X, and Z's in the word)

You're allowed only two hints per turn.

Time limit for diskette version

If you're playing with a time limit, LETTERMAN automatically starts keeping time from the moment the alphabet displays on your screen until you type in your first guess, and it times all other guesses. LETTERMAN notifies you when you have 30 seconds left to type in your guess. A tone sounds and a countdown displays on the screen. If you chose a time limit less than 30 seconds, the countdown displays as soon as a turn begins. If you chose a time limit more than 30 seconds, LETTERMAN keeps time quietly until it reaches the 30-second mark.

If you don't enter your guess before the count reaches zero, you lose that guess. A buzzer sounds and the arrow swishes toward the apple! LETTERMAN then resets the timer for your next guess and again warns you when you have 30 seconds left for guessing.

You can play LETTERMAN as long as you like. To change options during the game, see the section below.

Giving up

If you don't want to continue guessing during a turn, you may end your turn by typing CTRL-Q, for "quit", LETTERMAN then displays the secret word and adds 1 to your "loss" score, However, LETTERMAN's apple escapes the arrow!

CHANGING OPTIONS DURING A GAME

You may change any options after finishing a turn, when the "ENTER A SECRET WORD...OR SELECT A WORD" prompt displays. Press the OPTION key instead of the SELECT or START keys to tell LETTERMAN to return to the option menus. To change one option, you must go through <u>all</u> the options for the cassette or diskette version. LETTERMAN resets all scores to zero when you change options.

SCORING

When you guess a word, LETTERMAN does a colorful dance, among other surprises. When you miss a word, LETTERMAN becomes gloomy and flees from the poor squished apple.

Each word you guess earns you one point in your WIN column. Each word you fail to guess results in one point in your LOSS column. Your score displays immediately in the cassette version and in the 1 PLAYER option of the diskette version. It displays after each turn for the 2 OR MORE PLAYER option of the diskette version.

RESTARTING OR REPLAYING THE GAME

You can interrupt LETTERMAN at any time and start over by pressing the SYSTEM RESET key. When the READY prompt displays, type RUN and press the RETURN key.

If you accidentally stop LETTERMAN by pressing the BREAK key, flashing vertical strips will appear on your screen. Use the SYSTEM RESET key, RUN command, and RETURN key, as described above, to start again.

PROBLEMS

You may encounter one problem with LETTERMAN. If you accidentally press the ATARI Inverse key of the CAPS/LOWR key in response to the prompt ENTER A SECRET WORD...OR SELECT A WORD, the words "ENTER" and "OR" will stop flashing because the computer senses a key has been pressed, but it has a bit of trouble with these two keys. It's expecting you to press a letter key.

If you meant to type in your own secret word, go ahead and type it in and then press the START key. If you wanted LETTERMAN to select the word, type in any letter and then press the SELECT key.

You needn't worry if you press either of these two keys during game play. The program will continue to run normally.

ADVANCED PROGRAM INFORMATION

CHANGING OR ADDING WORDS TO LETTERMAN

You can change the word lists contained in the LETTERMAN program.

IMFORTANT. Don't change your original version of LETTERMAN. Make your modifications on a copy of the program.

In the subroutine beginning at line 4000, the word list for any given difficulty level is assigned to the string "W\$" (see lines 4000-4299). Difficulty levels are divided as follows:

Table 1 Word List Sections of Program

Difficulty level	Line Nos.	<pre># Words in section (cassette)</pre>	<pre># Words in section (diskette)</pre>
	****	****	
EASY	4000-4099	123	126
so-so	4100-4199	126	138
GOOD LUCK	4200-4299	128	148

Changing the word list

1. To change words, LIST the program on your TV screen (e.g., use the command LIST 4000,4099 to list the line numbers for the EASY words). These lines will have the following form:

line no.
$$W$(Z,Z+WL)="$$
 words . . . "

- 2. Type your new words right over the words appearing between the quotation marks. <u>Leave at least one space</u> between each word you type. Be careful not to go past the final quotation mark, unless room remains on that logical line to extend the string. Remember to use the final quotation mark. Also, leave at least <u>one</u> space before the quotation mark ending each logical line.
- 3. Then use the SAVE command to store this modified version of the program (refer to the <u>ATARI BASIC Reference Manual</u> for more information about saving a program). If you change the total number of words in any of the three levels, you must also change the value of the variable WCNT, as described in the next section.

Adding to the word list

To add words to LETTERMAN, you must have at least 24K of RAM for the cassette version or 32K of RAM for the diskette version. The maximum number of words this program supports for each difficulty level is 255. The program won't work correctly if you extend this limit.

 $\underline{\text{NOTE}}$. If you add words to a copy of this program and save such a revision, the cassette version won't load in 16K of RAM.

1. You add more words to the program by adding <u>lines</u>. For any difficulty level, choose new line numbers for your lines that are within the ranges appearing in Table 1 above. For example, to add new words to the EASY level, choose line numbers between 4026 (the first available line number within this range) and 4098 (the last available line number within this range).

Use this form to enter your new lines:

Leave at least <u>one space</u> between each word you type between the quotation marks and leave one space before the final quotation mark in each new logical line.

2. The program can accommodate up to 255 words in each difficulty level. The number of words in a section (see Table 1) is stored in the variable WCNT. You'll need to update this value by LISTing to the screen the last line of the word level section to which you're adding. This line will be 4099 for EASY, 4199 for SO-SO, and 4299 for GOOD LUCK. It will have this format (where "X" is the appropriate hundreds digit):

4X99 WCNT=(no. of words in section):RETURN

Change the number to the right of the equal sign to reflect the total number of words now in that section. For example, if WCNT=138 <u>before</u> you added twenty words, change the value of WCNT to 158.

3. SAVE this expanded version on a different cassette tape or under a different diskette file name. Refer to the <u>ATARI BASIC Reference Manual</u> for more information about saving programs.

Machine language subroutine to select the secret word

Owing to the great length of the string variable W\$, including a machine language subroutine to search this string was necessary. (BASIC took too long.) This routine is included here because it's general enough to be useful for other purposes. The routine chooses the Nth word from a string and returns its relative byte offset within that string. The calling sequence is:

OFFSET=USR(1536,ADR(W\$),N)

where N is the word number to select relative to one, and OFFSET is set to equal the displacement within W\$ of the Nth word. OFFSET is relative to zero. To save space, this routine is contained in LETTERMAN in character form in line 9120. ATASCII codes of these characters are POKEd into locations 1536-1602 (decimal). The program listing appears on the following page.

Machine Language Listing

DATA	ADDR	LABEL	OP CODE	OPERAND	COMMENTS
104 104	600 601		PLA		PULL OFFPARM COUNT
133,204	602		PLA	\$20.4	PULL
104	604		STA	\$204	OFF
133,203	60 5		PLA	¢200	STRING ADDR
104	607		STA PLA	\$2 03	AND SAVE IT
133,212	608		STA	¢010	HI-BYTE OF "n" IS ZERO
133,213	60A		STA	\$212	CLEAR RESULT
168	60C		TAY	\$21 3	AREA
104	60 D		PLA		AND INDEX
133,205	60E		STA	¢one	GET WORD COUNT
234	610		NOP	\$2 05	AND SAVE IT
177,203	611	SCAN1	LDA	¢002 W	RESERVE FOR BUGS
201,32	613	DOANI	CMP	\$203,Y	GET STRING VALUE
208,16	615		BNE	SCAN2	Q. IS IT BLANK
230,212	617	SCAN1A	INC	\$212	A. YES, DO WORD COUNT
208,2	619	50/11/1/1	BNE	B1	+1 TO STRING LENGTH
230,213	61B		INC	\$21 3	NO OVERFLOW
20 0	61 D	B1	INY	Ψ213	+1 TO HI-ORDER BYTE +1 TO INDEX
208,2	61 E		BNE	B2	
230,204	620		INC	\$204	NO OVERFLOW
76,17,6	62 2	B 2	JMP	SCAN1	+1 TO ADDR HI-ORDER BYTE CONTINUE SCAN
234	625	~-	NOP	DOANI	RESERVE FOR BUGS
234	626		NOP		RESERVE FOR BUGS
198,205	627	SCAN2	DEC	\$205	REDUCE WORD COUNT
208,1	629	_	BNE	B3	MORE WORK TO DO
96	62B		RTS	20	RETURN IF NO MORE WORDS
230,212	62C	B 3	INC	\$212	+1 TO STRING LENGTH
208,2	62E		BNE	B4	NO OVERFLOW
230,213	630		INC	\$213	+1 TO HI-ORDER BYTE
200	632	B4	INY	,	+1 TO INDEX
208,2	633		BNE	B5	NO OVERFLOW
230,204	635		INC	\$204	+1 TO ADDR HI-ORDER BYTE
177,203	637	B5	LDA	\$203,Y	GET STRING BYTE
201,32	639		CMP	11 11	Q. IS IT BLANK
208,3	63B		BNE	B 6	A. NO GO SCAN FOR A BLANK
76,17,6	63D		JMP	SCAN1A	GO BACK TO BLANKS SCAN
76,44,6	640	B6	JMP	B3	CONTINUE NON-BLANKS SCAN

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Easy to use User-oriented (e.g., menus. prompts. clear language) Enjoyable Self-instructive Useful (non-game programs)

7. Describe any technical errors you found in the user instructions (please give page numbers).	
	
8. What did you especially like about the user instructions?	
·	
9. What revisions or additions would improve these instructions?	
10. On a scale of 1 to 10, 1 representing "poor" and 10 representing "excellent", how would you instructions and why?	rate the user
11. Other comments about the program or user instructions:	
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