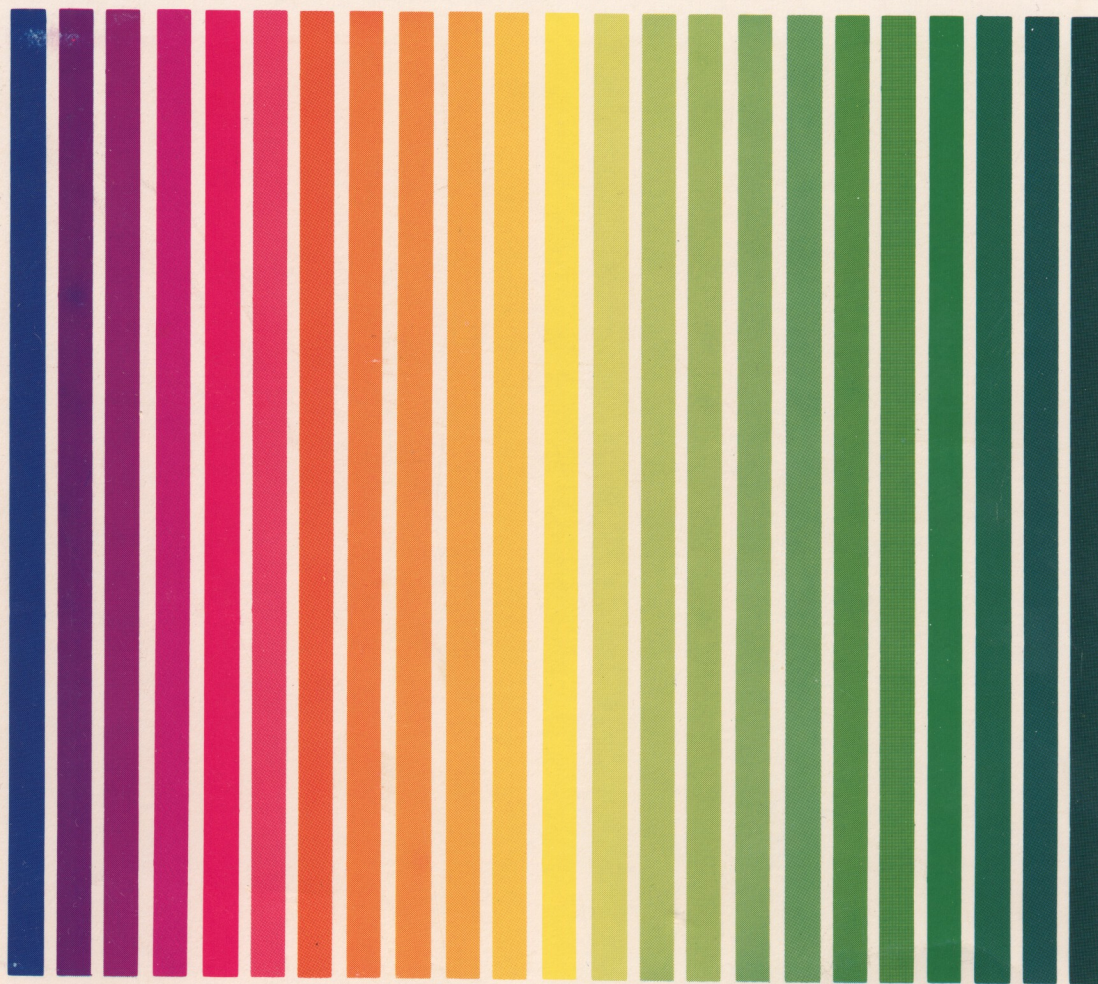


APX ATARI® PROGRAM EXCHANGE



Ingrid Langevin

TEXT ANALYST, Rev. 2

Use the Dale-Chall method to analyze text readability

Diskette: 40K (APX-20142)

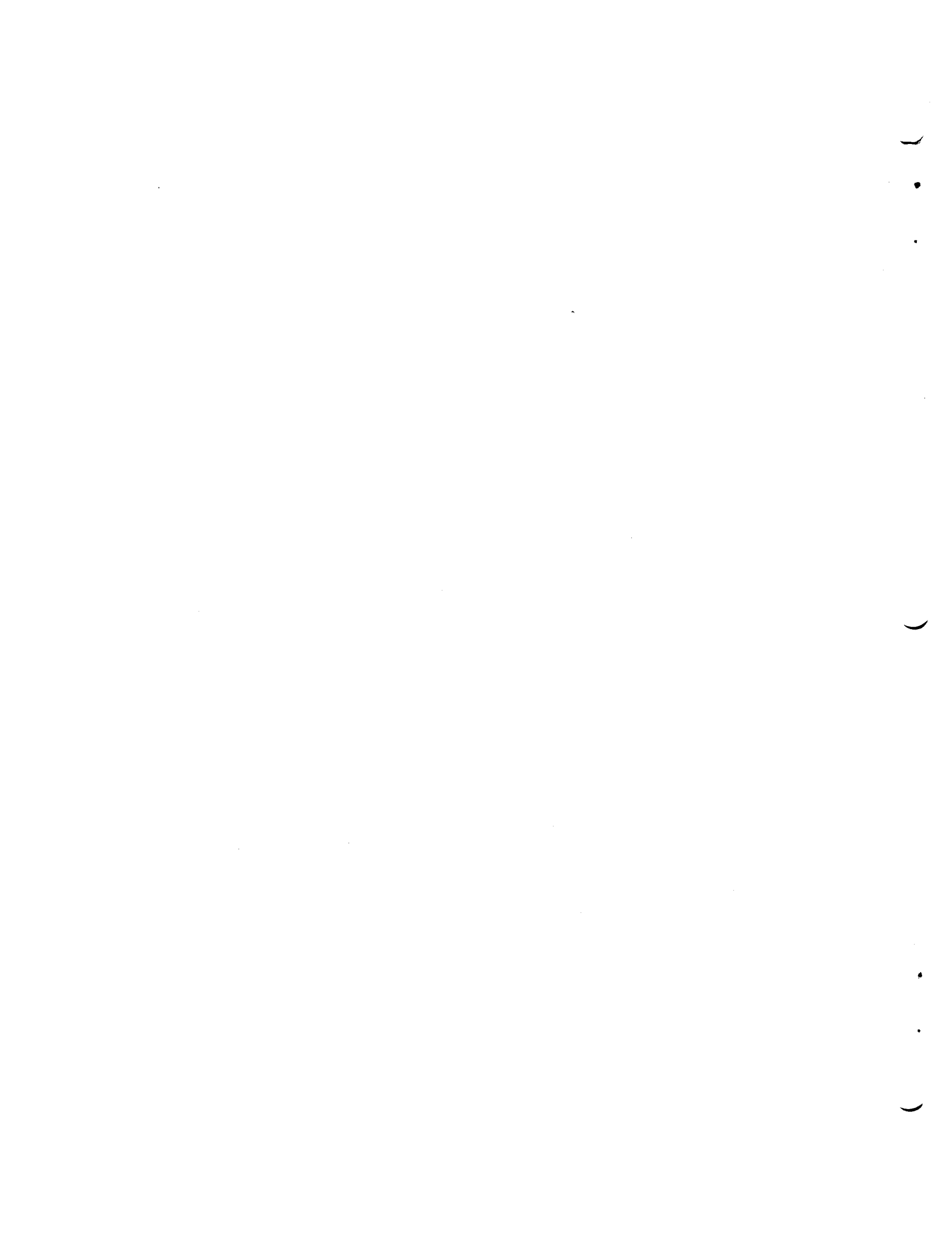
User-Written Software for ATARI Home Computers

Ingrid Langevin

TEXT ANALYST, Rev. 2

Use the Dale-Chall method to analyze text readability

Diskette: 40K (APX-20142)



TEXT ANALYST

by

Ingrid Langevin

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INTRODUCTION

OVERVIEW

TEXT ANALYST uses the Dale-Chall Readability Formula, which is based on a list of 3000 familiar words, to analyze the reading level of text. Studies of readability formulas have consistently found Dale-Chall to be the most accurate prediction method. However, because of the time required to perform the analysis (i.e., matching each word of one or more 100-word samples against the 3000 words on the Dale list, computing the average sentence length, weighting these variables, and working them into the Dale equation), less time-consuming methods such as the FOG Index (which is based on word length and syllabification) are often used, despite these other methods being poor predictors of readability compared to Dale.

Now TEXT ANALYST makes it possible to use the Dale formula at remarkable speed. Using an Atari 400 or 800 Computer, you can analyze a 100-word sample and determine its grade level and other relevant statistics in less than two minutes. If you prefer, you can also analyze more than a hundred words or even entire documents (in one file). TEXT ANALYST can analyze both text files and text created with the ATARI Word Processor or with Text Wizard. In addition, TEXT ANALYST is useful as a spelling checker and as a tool for evaluating writing style. A printing option lets you print both the unfamiliar words used in your file and the statistics for future reference.

Using TEXT ANALYST is easy. After it automatically loads into computer memory, you type the name of the text file or files you want analyzed and TEXT ANALYST takes over from there. As the program reads and compares each word, the total number of words read, the number of matched words, and the words not found on the Dale list display on your TV screen. If you chose the print option, the list of unmatched words prints during the analysis and the readability statistics print after the analysis is complete.

REQUIRED ACCESSORIES

- 40K RAM
- ATARI 800 Disk Drive
- BASIC Language Cartridge

OPTIONAL ACCESSORIES

- ATARI 825 80-Column Printer
- ATARI Word Processor (CX404) or Text Wizardtm

CONTACTING THE AUTHOR

The author encourages users of TEXT ANALYST to send their questions and comments to her at:

927 15th Street NW
Suite 1012
Washington, DC 20005

GETTING STARTED

LOADING TEXT ANALYST INTO COMPUTER MEMORY

1. Insert the ATARI BASIC Language Cartridge in the cartridge slot of your computer.
2. Turn on your ATARI 810 Disk Drive.
3. When the BUSY light goes out, open the disk drive and insert the TEXT ANALYST diskette with the label in the lower right-hand corner nearest you.
4. Turn on your computer and your TV set.
5. The TEXT ANALYST data file of 3000 words now automatically loads into computer memory.
6. If you plan to use the printer option, turn on your printer and ATARI 850 Interface Module, making sure the printer is in ONLINE mode.

USING TEXT ANALYST

ENTERING YOUR OPTIONS

Once the Dale list of words loads into computer memory, the title screen displays:

```
*****  
*                               *  
*   TEXT ANALYST               *  
*                               *  
*                               *  
*****
```

At this time, a machine-language program loads into computer memory and the program asks you to type in the number of the drive to contain your text file:

```
PLEASE ENTER THE NUMBER OF THE DRIVE  
INTO WHICH YOU WILL INSERT YOUR TEXT DISK.
```

You can analyze more than one file on the same diskette, and you can vary the length of text to be analyzed. Therefore, through prompted messages, TEXT ANALYST asks you for the name and length of analysis of each text file. First, the program asks you to insert your text file (the message below assumes you indicated you'll be using drive 1):

```
AT THIS TIME, PLEASE INSERT YOUR TEXT  
DISK INTO DRIVE 1.  
WHEN YOU HAVE DONE SO, PRESS RETURN.
```

Then the program asks you to type in the name of the first file to be analyzed:

```
ENTER THE NAME OF TEXT FILE #1  
  
TYPE DONE WHEN YOU HAVE ENTERED ALL  
THE FILES YOU WANT TO INCLUDE IN THE  
BATCH
```

After making sure the diskette containing your file is in the disk drive you specified, type the name of the first text file, using uppercase letters, and press the RETURN key. For example, to analyze the sample text file titled SAMPLE1.TXT included on the TEXT ANALYST diskette, you would type SAMPLE1.TXT [RETURN].

Next, you indicate how much of the file you want to analyze. The message is:

```
At this time, you may choose the  
number of words to include in the  
sample.  
To do so, type the number  
corresponding to your selection and  
then press RETURN.
```

- (1) 100 words
- (2) More than 100 words
- (3) The entire file

If you select 2 (More than 100 words), TEXT ANALYST asks you to indicate the number of words you want analyzed:

Please enter the number of words you want to analyze.

(Number must be greater than 100.)

Then TEXT ANALYST asks you for the same information for your second (and subsequent) text files--name of the file and length of the analysis. You can analyze as many files as you wish on one diskette, but you can't analyze files in automatic sequence on different diskettes. If you have no more files to analyze, type DONE in response to the prompt ENTER THE NAME OF TEXT FILE #n , where "n" is the next file number.

Finally, the computer beeps and asks whether you want to print the words not on the Dale list:

DO YOU WANT UNFAMILIAR WORDS TO BE PRINTED? (Y/N)

If you plan to print the analysis, be sure your printer and interface module are on and then type Y and press the RETURN key. Otherwise, type N [RETURN] to indicate you don't want to print the analysis.

After you respond, the computer starts processing the text file. If you chose to analyze a 100-word sample, the analysis takes about two minutes. If you chose to analyze more than 100 words, the time depends on the length you specified.

Don't touch the keyboard again until the computer beeps to let you know that the analysis has been completed and it is now displaying the readability statistics.

ANALYSIS DISPLAY SCREEN

As the program starts checking the text, the screen display looks roughly like this:

# OF WORDS	# OF MATCHES
42	37

motivation

WORD NOT ON DALE LIST
motivation

At the upper left is the counter for the total number of words read so far in the sample. At the upper right is the match counter, which increases each time a text word (or its stem) matches one on the Dale list. Each word read by TEXT ANALYST that isn't on the Dale list displays under the heading WORD NOT ON DALE LIST, and also prints if you chose the print option. Some words display (and print) with a double asterisk. This symbol indicates the words aren't included in the analysis, although they are counted in the "Total number of words read" category of the readability statistics. The program assumes these words are proper nouns and therefore not to be included in the analysis. Words ignored are:

1. Any non-Dale word with an initial uppercase letter (for example, the word "Unfortunately" in the sample below).
2. Any Dale word other than the first one in a sentence that has an initial uppercase letter in the text file but an initial lowercase letter on the Dale list. For example, if the word "North" appears within a sentence, the program assumes it's a proper name because it appears as "north" on the Dale list and therefore doesn't include it in the computations.

TEXT ANALYST does include in the analysis any Dale word normally beginning with an uppercase letter, such as December and America, regardless of its position in the sentence.

An example of the printed list of unfamiliar (non-Dale) words from the SAMPLE1.TXT file is as follows:

LIST OF UNFAMILIAR (NON-DALE) WORDS IN D:SAMPLE1.TXT

aware
providing
appropriate
motivation
Unfortunately**
factors
motivate
student
peers
microcomputer
provide
motivation
students
provide
motivational
adapted
variety
situations
program
computer
electives
local
terminals

If you chose to analyze a 100-word sample, the program stops reading words at the end of the sentence containing the hundredth word. If you chose to analyze more than a hundred words, TEXT ANALYST stops at the end of the sentence containing the nth word, where "n" is the number of words you specified be analyzed. If you chose to analyze the entire file, the program stops after reading the last word in the file. After you press the RETURN key it computes the Dale Formula and displays (and prints) the READABILITY STATISTICS and CORRECTED GRADE LEVEL of the text.

THE READABILITY STATISTICS

The readability statistics table for SAMPLE1.TXT looks like this:

READABILITY STATISTICS

Name of file: D:\SAMPLE1.TXT

Total number of words read: 103

Number of words in sample: 103

Number of sentences in the sample: 4

Number of words not on Dale list: 23

Average sentence length: 25.8

Average word length: 4.8

Formula Raw Score: 8.4

CORRECTED GRADE LEVEL: 11-12

COMPUTING THE DALE FORMULA

The Dale Formula is based on a factor of vocabulary load (X1) and a factor of sentence structure (X2). It may be expressed as follows:

$$DRS = (.1579 * X1) + (.0496 * X2) + 3.6365$$

where

DRS = Dale Raw Score

X1 = relative number of words outside the Dale list of 3000 words

X2 = average sentence length 3.6365 = a constant

Dale and Chall conducted several experiments comparing the formula predictions with the judgments of experienced teachers, the judgments of readability "experts" and the actual

comprehension scores of readers on passages. They report the following results:

"On 55 passages of health-education materials, we found that our two-factor formula predictions correlated .92 with the judgments of readability experts, and .90 with the reading grades of children and adults who were able to answer at least three questions out of four on thirty of these passages. They ranged from the extremely easy to the very difficult.

"On 78 passages on foreign affairs from current-events magazines, government pamphlets, and newspapers, the correlation between the predictions of the formula and judgments of difficulty by expert teachers in the social studies was .90." (From "A Formula for Predicting Readability", Educational Research Bulletin, January 1948.)

On the basis of these experiments, Dale and Chall set up the following table of estimated corrected grade levels:

<u>Formula Score</u>	<u>Corrected Grade Level</u>
4.9 and below	Grade 4 and below
5.0 to 5.9	Grades 5-6
6.0 to 6.9	Grades 7-8
7.0 to 7.9	Grades 9-10
8.0 to 8.9	Grades 11-12
9.0 to 9.9	Grades 13-15 (college)
10.0 and above	Grades 16+ (college graduate)

The Corrected Grade Level scores computed by TEXT ANALYST correspond to this table.

ANALYZING OTHER FILES

To continue using TEXT ANALYST, press the RETURN key after the readability statistics display for your last specified text file. The program displays the message:

QUEUE COMPLETED

and prompts you again to press RETURN to redisplay the prompts for entering information.

CREATING TEXT FILES

INTRODUCTION

You can create files for TEXT ANALYST in two ways. First, you may enter text using either the ATARI Word Processor or Text Wizard. If you already have a text file created by one of these programs, insert the diskette containing the file in your disk drive and enter the file name when TEXT ANALYST displays the message NAME OF FILE TO ANALYZE? .

You can also create a text file using the COPY function within the Disk Operating System (DOS 2.05). To do so, press the BREAK key to turn control over to BASIC and then type DOS. When the DOS menu displays, type C and press the RETURN key. In response to the prompt

```
COPY--FROM, TO
```

type

```
E:,D1:SAMPLE2.TXT
```

You can use any name you choose for the file you're creating. The name SAMPLE2.TXT simply illustrates the procedure.

ENTERING THE TEXT

Now you can type in your text. Use normal upper- and lowercase and standard punctuation (e.g., two spaces after a period). Type about 110 characters and press the RETURN key. If you enter more than this amount, a warning buzzer sounds. If this happens, delete back to the end of a word and then press the RETURN key.

Continue entering your text until you reach the ending punctuation of the sentence containing the hundredth word or the ending punctuation of the file. Don't end your file until you end a sentence. Failure to observe this rule will distort the computation of the Dale Formula.

AN EXAMPLE OF CREATING A TEXT FILE

The sample text file on your APX diskette, SAMPLE1.TXT, was created using the COPY method in DOS. The steps for entering this text were as follows:

1. Press the BREAK key, and type DOS
2. Type C for the COPY option
3. Type E:,"D1:SAMPLE1.TXT"
4. Type in text in the following sections:

```
Good teachers have long been aware that providing  
motivation is a major part of their job.[RETURN]  
Unfortunately, those factors that motivate one student  
not only may not work on his peers, but[RETURN]  
they may also not even be useful with him on another
```


day.[RETURN]
The microcomputer doesn't provide a motivation that
will work with all students at all times, but[RETURN]
it does provide the teacher with a motivational tool
that can be adapted to a wide variety of
situations.[RETURN]
Some years ago I was working with a high-school
program that offered six different computer
electives[RETURN]
using local time-sharing terminals.[RETURN]

(The above text is excerpted from the article "Computer Blackboard" by Walter Koetke
and appeared in the 1980 issue of Microcomputing.)

5. Press CTRL-3 (i.e., hold down the CTRL key and press 3) to close the text file.

To analyze the file, make sure the TEXT ANALYST diskette is in disk drive 1, type B to
return to the READY prompt in BASIC, then type

```
RUN "D:DALE"
```

and respond to the prompted questions.

USING MINIREAD

The TEXT ANALYST diskette contains a very simple text display program in case you want to look at a file before or after analyzing it. The program displays, and, if requested, prints, the contents of the unformatted text file.

To use this utility, interrupt TEXT ANALYST by pressing the BREAK key. Making certain the TEXT ANALYST diskette is in disk drive 1, type

```
RUN "D1:MINIREAD"
```

In response to the prompt

```
DO YOU WANT THE FILE PRINTED ON THE  
ATARI 825?
```

type Y and press RETURN to print as well as display the text file, or type N and press RETURN only to display the text file. Then, in response to the prompt:

```
NAME OF FILE TO READ?
```

enter the name of the text file you want to examine and press RETURN.

When you want to return to TEXT ANALYST, verify that the TEXT ANALYST diskette is in disk drive 1 and then type

```
RUN "D1:DALE"
```

Now you can restart the analysis.

TROUBLESHOOTING

NONEXISTENT FILE

If you respond to the question NAME OF FILE TO ANALYZE? by typing in the name of a file not on the diskette in your specified drive, the program notifies you that it can't find the file on that disk drive and redisplay the question. Be sure to enter the file name in uppercase letters. If you don't remember the exact name of a file, press the BREAK key and type DOS to enter DOS. Then, use Option A to check the Disk Directory for the drive containing your text files. To return to TEXT ANALYST, make certain that the TEXT ANALYST diskette is in disk drive 1 and then type B (to exit from DOS), followed by RUN"D1:DALE".

USING THE PRINT OPTION

If you respond Y [RETURN] to the question DO YOU WANT UNFAMILIAR WORDS TO BE PRINTED? (Y/N) without first turning on your printer and interface module, the program displays the message:

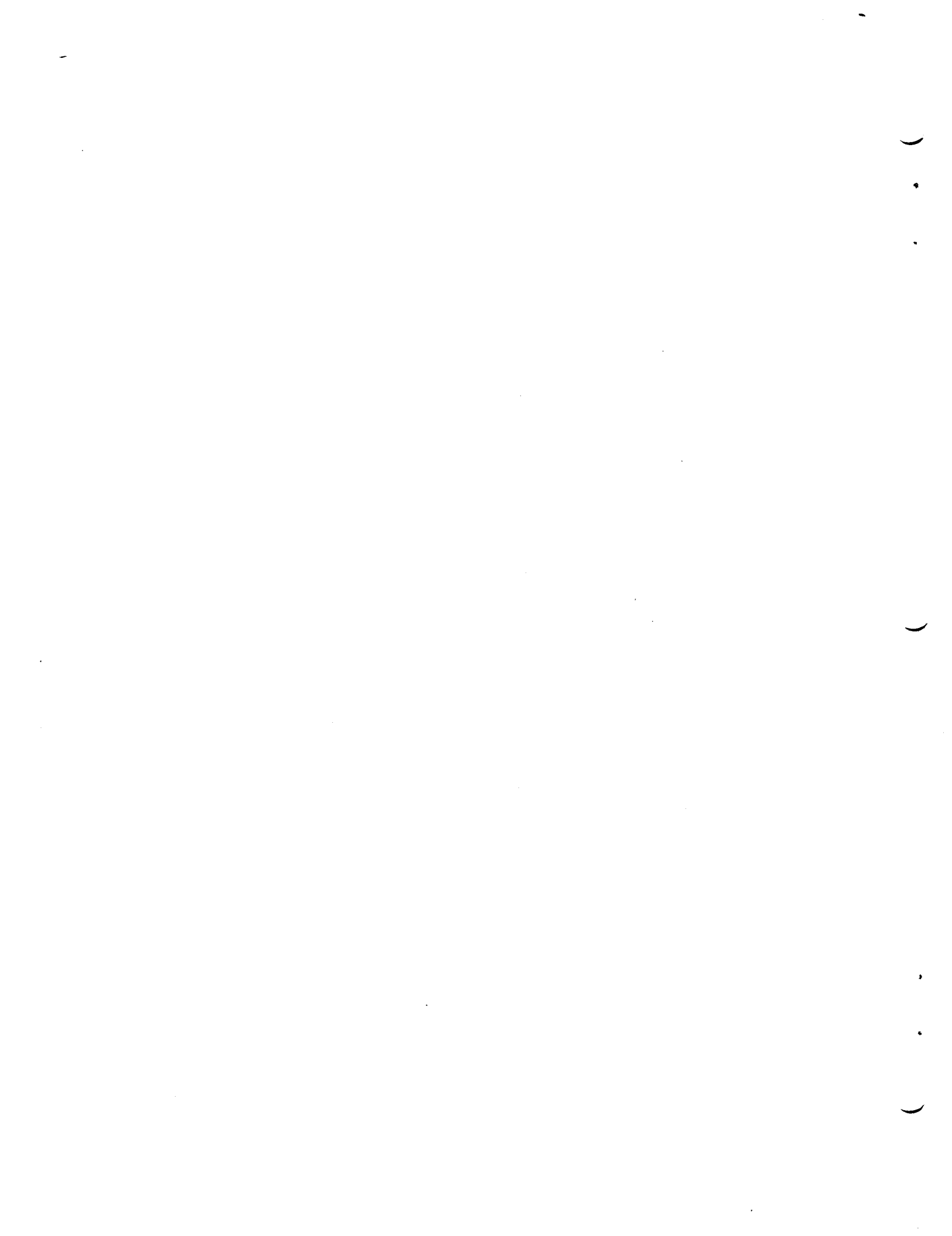
CANNOT PRINT

PLEASE CHECK YOUR PRINTER AND
INTERFACE MODULE TO BE SURE THEY ARE
TURNED ON AND THAT THE PRINTER IS IN
ONLINE MODE.

Turning on your printer and interface module lets the program proceed.

APPENDIX

THE DALE LIST



America		always	automobile	battle	besides	bobwhite
American		am	autumn	battleship	best	body
April		among	avenue	bay	bet	bodies
August	a	amount	awake	be	better	boil
Bible	able	an	awaken	being	between	boiler
Black	aboard	and	away	beach	bib	bold
Christmas	about	angel	awful	bead	bible	bone
December	above	anger	awfully	beam	bicycle	bonnet
Earth	absent	angry	awhile	bean	bid	boo
English	accept	animal	ax	bear	big	book
February	accident	another		beard	bigger	bookcase
French	account	answer	baa	beast	bill	bookkeeper
Friday	ache	ant	babe	beat	billboard	boom
God	aching	any	baby	beating	bin	boot
I	acorn	anybody	babies	beautiful	bind	born
I'd	acre	anyhow	back	beautify	bird	borrow
I'll	across	anyone	background	beauty	birth	boss
I'm	act	anything	backwards	became	birthday	both
Indian	acts	anyway	bacon	because	biscuit	bother
I've	add	anywhere	bad	become	bit	bottle
January	address	apart	badly	becoming	bite	bottom
July	admire	apartment	badge	bed	biting	bought
June	adventure	ape	bag	bedbug	bitter	bounce
March	afar	apiece	bake	bedroom	black	bow
May	afraid	appear	baker	bedspread	blackberry	bowl
Miss	after	apple	bakery	bedtime	blackbird	box
Monday	afternoon	apron	baking	bee	blackboard	boxes
Mr	afterward	are	ball	beech	blackness	boxcar
Mrs	afterwards	aren't	balloon	beef	blacksmith	boxer
Ms	again	arise	banana	beefsteak	blame	boy
Negro	against	arithmetic	band	beehive	blank	boyhood
November	age	arm	bandage	been	blanket	bracelet
October	aged	armful	bang	beer	blast	brain
Saturday	ago	army	banjo	beet	blaze	brake
September	agree	arose	bank	before	bleed	bran
Sunday	ah	around	banker	beg	bless	branch
Thanksgiving	ahead	arrange	bar	began	blessing	brass
Thursday	aid	arrive	barber	beggar	blew	brave
Tuesday	aim	arrived	bare	begged	blind	bread
United States	air	arrow	barely	begin	blinds	break
Wednesday	airfield	art	barefoot	beginning	blindfold	breakfast
	airplane	artist	bark	begun	block	breast
	airport	as	barn	behave	blood	breath
	airship	ash	barrel	behind	bloom	breathe
	airy	ashes	base	believe	blossom	breeze
	alarm	aside	baseball	bell	blot	brick
	alike	ask	basement	belong	blow	bridge
	alive	asleep	basket	below	blue	bridge
	all	at	bat	belt	blueberry	bright
	alley	ate	batch	bench	bluebird	brightness
	alligator	attack	bath	bend	bluejay	bring
	allow	attend	bathe	beneath	blush	broad
	almost	attention	bathroom	bent	board	broadcast
	alone	aunt	bathtub	berry	boast	broke
	along	author		berries	boat	broken
	aloud	auto		beside	bob	brook
	already					
	also					

broom	calf	cellar	clang	company	creep	darling
brother	call	cent	clap	compare	crept	darn
brought	caller	center	class	conductor	cried	dart
brown	calling	cereal	classmate	cone	croak	dash
brush	came	certain	classroom	connect	crook	date
bubble	camel	certainly	claw	coo	crooked	daughter
bucket	camp	chain	clay	cook	crop	dawn
buckle	campfire	chair	clean	cooked	cross	day
bud	can	chalk	cleaner	cooky	crossing	daybreak
buffalo	canal	champion	clear	cookie	cross-eyed	daytime
bug	canary	chance	clerk	cookies	crow	dead
buggy	candle	change	clever	cool	crowd	deaf
build	candlestick	chap	click	cooler	crowded	deal
building	candy	charge	cliff	coop	crown	dear
built	cane	charm	climb	copper	cruel	death
bulb	cannon	chart	clip	copy	crumb	decide
bull	cannot	chase	cloak	cord	crumble	deck
bullet	canoe	chatter	clock	cork	crush	deed
bum	can't	cheap	close	corn	crust	deep
bumblebee	canyon	cheat	closet	corner	cry	deer
bump	cap	check	cloth	correct	cries	defeat
bun	cape	checkers	clothes	cost	cub	defend
bunch	capital	check	clothing	cot	cuff	defense
bundle	captain	cheer	cloud	cottage	cup	delight
bunny	car	cheese	cloudy	cotton	cupboard	den
burn	card	cherry	clover	couch	cupful	dentist
burst	cardboard	chest	clown	cough	cure	depend
bury	care	chew	club	could	curl	deposit
bus	careful	chick	cluck	couldn't	curly	describe
bush	careless	chicken	clump	count	curtain	desert
bushel	carelessness	chief	coach	counter	curve	deserve
business	carload	child	coal	country	cushion	desire
busy	carpenter	childhood	coast	county	custard	desk
but	carpet	children	coat	course	customer	destroy
butcher	carriage	chill	cob	court	cut	devil
butt	carrot	chilly	cobbler	cousin	cute	dew
butter	carry	chimney	cocoa	cover	cutting	diamond
buttercup	cart	chin	coconut	cow		did
butterfly	carve	china	cocoon	coward	dab	didn't
buttermilk	case	chip	cod	cowardly	dad	die
butterscotch	cash	chipmunk	codfish	cowboy	daddy	died
button	cashier	chocolate	coffee	cozy	daily	dies
buttonhole	castle	choice	coffeepot	crab	dairy	difference
buy	cat	choose	coin	crack	daisy	different
buzz	catbird	chop	cold	cracker	dam	dig
by	catch	chorus	collar	cradle	damage	dim
bye	catcher	chose	college	cramps	dame	dime
	caterpillar	chosen	color	cranberry	damp	dine
cab	catfish	christen	colored	crank	dance	ding
cabbage	catsup	church	colt	cranky	dancer	dinner
cabin	cattle	churn	column	crash	dancing	dip
cabinet	caught	cigarette	comb	crawl	dandy	direct
cackle	cause	circle	come	crazy	dangerous	direction
cage	cave	circus	comfort	cream	dare	dirt
cake	ceiling	citizen	comic	creamy	dark	dirty
calendar	cell	city	coming	creek	darkness	discover

dish	drowsy	engineer	farther	flame	fox	gift
dislike	drug	enjoy	fashion	flap	frame	gingerbread
dismiss	drum	enough	fast	flash	free	girl
ditch	drunk	enter	fat	flashlight	freedom	give
dive	dry	envelope	father	flat	freeze	given
diver	duck	equal	fault	flea	freight	giving
divide	due	erase	favor	flesh	fresh	glad
do	dug	eraser	favorite	flew	fret	gladly
dock	dull	errand	fear	flies	fried	glance
doctor	dumb	escape	feast	flight	friend	glass
does	dump	eve	feather	flip	friendly	glasses
doesn't	during	even	February	float	friendship	gleam
dog	dust	evening	fed	flock	frighten	glide
doll	dusty	ever	feed	flood	frog	glory
dollar	duty	every	feel	floor	from	glove
dolly	dwarf	everybody	feet	flop	front	glow
done	dwell	everyday	fell	flour	frost	glue
dong	dwelt	everyone	fellow	flow	frown	go
donkey	dying	everything	felt	flower	froze	going
don't		everywhere	fence	flowery	fruit	goes
door	each	evil	fever	flutter	fry	goal
doorbell	eager	exact	few	fly	fudge	goat
doorknob	eagle	except	fib	foam	fuel	gobble
doorstep	ear	exchange	fiddle	fog	full	god
dope	early	excited	field	foggy	fully	godmother
dot	earn	exciting	fife	fold	fun	gold
double	earth	excuse	fifteen	folks	funny	golden
doubt	east	exit	fifth	follow	fur	goldfish
dove	eastern	expect	fifty	following	furniture	golf
down	easy	explain	fig	fond	further	gone
downstairs	eat	extra	fight	food	fuzzy	good
downtown	eaten	eye	figure	fool		goods
dozen	edge	eyebrow	file	foolish	gain	goodbye
drag	egg		fill	foot	gallon	goodness
drain	eh	fable	film	football	gallop	goody
drank	eight	face	finally	footprint	game	goose
draw	eighteen	facing	find	for	gang	gooseberry
drawer	eighth	fact	fine	forehead	garage	got
draw	eighty	factory	finger	forest	garbage	govern
drawing	either	fail	finish	forget	garden	government
dream	elbow	faint	fire	forgive	gas	gown
dress	elder	fair	firearm	forgot	gasoline	grab
dresser	eldest	fairy	firecracker	forgotten	gate	gracious
dressmaker	electric	faith	fireplace	fork	gather	grade
drew	electricity	fake	fireworks	form	gave	gram
dried	elephant	fall	firing	fort	gay	grand
drift	eleven	false	first	forth	gear	grandchild
drill	elf	family	fish	fortune	geese	grandchildren
drink	elm	fan	fisherman	forty	general	granddaughter
drip	else	fancy	fist	forward	gentle	grandfather
drive	elsewhere	far	fit	fought	gentleman	grandma
driven	empty	faraway	fits	found	gentlemen	grandmother
driver	end	fare	five	fountain	geography	grandpa
drop	ending	farmer	fix	four	get	grandson
drove	enemy	farm	flag	fourteen	getting	grandstand
drown	engine	farming	flake	fourth	giant	grape

grapes	hard	her	hopeless	inn	key	leader
grapefruit	hardly	hers	horn	insect	kick	leaf
grass	hardship	herd	horse	inside	kid	leak
grasshopper	hardware	here	horseback	instant	kill	lean
grateful	hare	here's	horseshoe	instead	killed	leap
grave	hark	hero	hose	insult	kind	learn
gravel	harm	herself	hospital	intend	kindly	learned
graveyard	harness	he's	host	interested	kindness	least
gravy	harp	hey	hot	interesting	king	leather
gray	harvest	hickory	hotel	into	kingdom	leave
graze	has	hid	hound	invite	kiss	leaving
grease	hasn't	hidden	hour	iron	kitchen	led
great	haste	hide	house	is	kite	left
green	hasten	high	housetop	island	kitten	leg
greet	hasty	highway	housewife	isn't	kitty	lemon
grew	hat	hill	housework	it	knee	lemonade
grind	hatch	hillside	how	its	kneel	lend
groan	hatchet	hilltop	however	it's	knew	length
grocery	hate	hilly	howl	itself	knife	less
ground	haul	him	hug	ivory	knit	lesson
group	have	himself	huge	ivy	knives	let
grove	haven't	hind	hum	00000	knob	let's
grow	having	hint	humble	jacket	knock	letter
guard	hawk	hip	hump	jacks	knot	letting
guess	hay	hire	hundred	jail	know	lettuce
guest	hayfield	his	hung	jam	known	level
gulf	haystack	hiss	hunger	jar		liberty
gum	he	history	hungry	jaw	lace	library
gun	head	hit	hunk	jay	lad	lice
gunpowder	headache	hitch	hunt	jelly	ladder	lick
guy	heal	hive	hunter	jellyfish	ladies	lid
	health	ho	hurrah	jerk	lady	lie
ha	healthy	hoe	hurried	jig	laid	life
habit	heap	hog	hurry	job	lake	lift
had	hear	hold	hurt	jockey	lamb	light
hadn't	hearing	holder	husband	join	lame	lightness
hail	heard	hole	hush	joke	lamp	lightning
hair	heart	holiday	hut	joking	land	like
haircut	heat	hollow	hymn	jolly	lane	likely
hairpin	heater	holy		journey	language	liking
half	heaven	home	ice	joy	lantern	lily
hall	heavy	homely	icy	joyful	lap	limb
halt	he'd	homesick	idea	joyous	lard	lime
ham	heel	honest	ideal	judge	large	limp
hammer	height	honey	if	jug	lash	line
hand	held	honeybee	ill	juice	lass	linen
handful	hell	honeymoon	important	juicy	last	lion
handkerchief	he'll	honk	impossible	jump	late	lip
handle	hello	honor	improve	junior	laugh	list
handwriting	helmet	hood	in	junk	laundry	listen
hang	help	hoof	inch	just	law	lit
happen	helper	hook	inches		lawn	little
happily	helpful	hoop	income	keen	lawyer	live
happiness	hem	hop	indeed	keep	lay	lives
happy	hen	hope	indoors	kept	lazy	lively
harbor	henhouse	hopeful	ink	kettle	lead	liver

living	manager	miller		nut	owe	peaceful
lizard	mane	million	nail		owing	peach
load	manger	mind	name	oak	owl	peaches
loaf	many	mine	nap	oar	own	peak
loan	map	miner	napkin	oatmeal	owner	peanut
loaves	maple	mint	narrow	oats	ox	pear
lock	marble	minute	naughty	obey		pearl
locomotive	march	mirror	navy	ocean	pa	peck
log	mare	mischief	near	o'clock	pace	peek
lone	mark	miss	nearby	odd	pack	peel
lonely	market	misspell	nearly	of	package	peep
lonesome	marriage	mistake	neat	off	pad	peg
long	married	misty	neck	offer	page	pen
look	marry	mitt	necktie	office	paid	pencil
lookout	mask	mitten	need	officer	pail	penny
loop	mast	mix	needle	often	pain	people
look	master	moment	needn't	oh	painful	pepper
lookout	mat	money	neighbor	oil	paint	peppermint
loop	match	monkey	neighborhood	old	painter	perfume
loose	matter	month	neither	old-fashioned	painting	perhaps
lord	mattress	moo	nerve	on	pair	person
lose	may	moon	nest	once	pal	pet
loser	maybe	moonlight	net	one	palace	phone
loss	mayor	mouse	never	onion	pale	piano
lost	maypole	mop	nevermore	only	pan	pick
lot	me	more	new	onward	pancake	pickle
loud	meadow	morning	news	open	pane	picnic
love	meal	morrow	newspaper	or	pansy	picture
lovely	mean	moss	next	orange	pants	pie
lover	means	most	nibble	orchard	papa	piece
low	meant	mostly	nice	order	paper	pig
luck	measure	mother	nickel	ore	parade	pigeon
lucky	meat	motor	night	organ	pardon	piggy
lumber	medicine	mount	nightgown	other	parent	pile
lump	meet	mountain	nine	otherwise	park	pill
lunch	meeting	mouse	nineteen	ouch	part	pillow
lying	melt	mouth	ninety	ought	partly	pin
	member	move	no	our	partner	pine
ma	men	movie	nobody	ours	party	pineapple
machine	mend	month	nod	ourselves	pass	pink
machinery	meow	move	noise	out	passenger	pint
mad	merry	movie	noisy	outdoors	past	pipe
made	mess	movies	none	outfit	paste	pistol
magazine	message	moving	noon	outlaw	pasteure	pit
magic	met	mow	nor	outline	pat	pitch
maid	metal	much	north	outside	patch	pitcher
mail	mew	mud	northern	outward	path	pity
mailbox	mice	muddy	nose	oven	patter	place
mailman	middle	mug	not	over	pave	plain
major	midnight	mule	note	overalls	pavement	plan
make	might	multiply	nothing	overcoat	paw	plane
making	mighty	murder	notice	overeat	pay	plant
male	mile	music	now	overhead	payment	plate
mama	milk	must	nowhere	overhear	pea	platform
mamma	milkman	my	number	overnight	peas	platter
man	mill	myself	nurse	overturn	peace	play

player	prison	raisin	right	saddle	seeing	shiny
playground	prize	rake	rim	sadness	seed	ship
playhouse	promise	ram	ring	safe	seek	shirt
playmate	proper	ran	rip	safety	seem	shock
plaything	protect	ranch	ripe	said	seen	shoe
pleasant	proud	rang	rise	sail	seesaw	shoemaker
please	prove	rap	rising	sailboat	select	shone
pleasure	prune	rapidly	river	sailor	self	shook
plenty	public	rat	road	saint	selfish	shoot
plow	puddle	rate	roadside	salad	sell	shop
plug	puff	rather	roar	sale	send	shopping
plum	pull	rattle	roast	salt	sense	shore
pocket	pump	raw	rob	same	sent	short
pocketbook	pumpkin	ray	robber	sand	sentence	shot
poem	punch	reach	robe	sandy	separate	should
point	punish	read	robin	sandwich	September	shoulder
poison	pup	reader	rock	sang	servant	shouldn't
poke	pupil	reading	rocky	sank	serve	shout
pole	puppy	ready	rocket	sap	service	shovel
police	pure	real	rode	sash	set	show
policeman	purple	really	roll	sat	setting	shower
polish	purse	reap	roller	satin	settle	shut
polite	push	rear	roof	satisfactory	settlement	shy
pond	puss	reason	room	sausage	seven	sick
ponies	pussy	rebuild	rooster	savage	seventeen	sickness
pony	pussycat	receive	root	save	seventh	side
pool	put	recess	rope	savings	seventy	sidewalk
poor	putting	record	rose	saw	several	sideways
pop	puzzle	red	rosebud	say	sew	sigh
popcorn		redbird	rot	scab	shade	sight
popped	quack	redbreast	rotten	scales	shadow	sign
porch	quart	refuse	rough	scare	shady	sign
pork	quarter	reindeer	round	scarf	shake	silence
possible	queen	rejoice	route	school	shaker	silent
post	queer	remain	row	schoolboy	shaking	silk
postage	question	remember	rowboat	schoolhouse	shall	sill
postman	quick	remind	royal	schoolmaster	shame	silly
pot	quickly	remove	rub	schoolroom	shan't	silver
potato	quiet	rent	rubbed	scorch	shape	simple
potatoes	quilt	repair	rubber	score	share	sin
pound	quit	repay	rubbish	scrap	sharp	since
pour	quite	repeat	rug	scrape	shave	sing
powder	00000	report	rule	scratch	she	singer
power	rabbit	rest	ruler	scream	she'd	single
powerful	race	return	rumble	screen	she'll	sink
praise	rack	review	run	screw	she's	sip
pray	radio	reward	rung	scrub	shear	sir
prayer	radish	rib	runner	sea	shears	sis
prepare	rag	ribbon	running	seal	shed	sissy
present	rail	rice	rush	seam	sheep	sister
pretty	railroad	rich	rust	search	sheet	sit
price	railway	rid	rusty	season	shelf	sitting
prick	rain	riddle	rye	seat	shell	six
prince	rainy	ride		second	shepherd	sixteen
princess	rainbow	rider	sack	secret	shine	sixth
print	raise	riding	sad	see	shining	sixty
						size

skate	soil	square	straight	swift	the	
skater	sold	squash	strange	swim	teater	tis
ski	soldier	squeak	stranger	swimming	thee	title
skin	sole	squeeze	strap	swing	their	to
skip	some	squirrel	straw	switch	them	toad
skirt	somebody	stable	strawberry	sword	then	toadstool
sky	somehow	stack	stream	swore	there	toast
slam	someone	stage	street		these	tobacco
slap	something	stair	stretch	table	they	today
slate	sometime	stall	string	tablecloth	they'd	toe
slave	sometimes	stamp	strip	tablespoon	they'll	together
sled	somewhere	stand	stripes	tablet	they're	toilet
sleep	son	star	strong	tack	they've	told
sleepy	song	stare	stuck	tag	thick	tomato
sleeve	soon	start	study	tail	thief	tomorrow
sleigh	sore	starve	stuff	tailor	thimble	ton
slept	sorrow	state	stump	take	thin	tone
slice	sorry	station	stung	taken	thing	tongue
slid	sort	stay	subject	taking	think	tonight
slide	soul	steak	such	tale	third	too
sling	sound	steal	suck	talk	thirsty	took
slip	soup	steam	sudden	talker	thirteen	tool
slipped	sour	steamboat	suffer	tall	thirty	toot
slipper	south	steamer	sugar	tame	this	tooth
slippery	southern	steel	suit	tan	tho	toothbrush
slit	space	steep	sum	tank		toothpick
slow	spade	steeple	summer	tap	thorn	top
slowly	spank	steer	sun	tape	those	tore
sly	sparrow	stem	sunflower	tar	though	torn
smack	speak	step	sung	tardy	thought	toss
small	speaker	stepping	sunk	task	thought	touch
smart	spear	stick	sunlight	taste	thousand	tow
smell	speech	sticky	sunny	taught	thread	tow
smile	speed	stiff	sunrise	tax	three	toward
smoke	spell	still	sunset	tea	threw	towards
smooth	spelling	stillness	sunshine	teach	throat	towel
snail	spend	sting	supper	teacher	throne	tower
snake	spent	stir	suppose	team	through	town
snap	spider	stitch	sure	tear	throw	toy
snapping	spike	stock	surely	tease	thrown	trace
sneeze	spill	stocking	surface	teaspoon	thumb	track
snow	spin	stole	surprise	teeth	thunder	trade
snowy	spinach	stole	swallow	telephone	thy	train
snowball	spirit	stood	swam	tell	tick	tram
snowflake	spit	stool	swamp	temper	ticket	tramp
snuff	splash	stoop	swan	ten	tickle	trap
snug	spoil	stop	swat	tennis	tie	tray
so	spoke	stopped	sweat	tent	tiger	treasure
soak	spook	stopping	sweat	term	tight	treat
soap	spoon	store	sweater	terrible	till	tree
sob	sport	stories	sweep	test	time	trick
socks	spot	stork	sweet	than	tin	tricycle
sod	spread	storm	sweetness	thank	tinkle	tried
soda	spring	stormy	sweetheart	thanks	tiny	trim
sofa	springtime	story	swell	that	tip	trip
soft	sprinkle	stove	swept	that's	tiptoe	trolley
					tire	trouble
					tired	truck

true	valley	web	window	yard
truly	valuable	we'd	wine	yarn
trunk	value	wedding	wing	year
trust	vase	wee	wink	yell
truth	vegetable	weed	winner	yellow
try	velvet	week	winter	yes
tub	very	weep	wipe	yesterday
tug	vessel	weigh	wire	yet
tulip	victory	welcome	wise	yolk
tumble	view	well	wish	yonder
tune	village	we'll	wit	you
tunnel	vine	went	witch	you'd
turkey	violet	were	with	you'll
turn	visit	we're	without	young
turtle	visitor	west	woke	youngster
twelve	voice	western	wolf	your
twenty	vote	wet	woman	yours
twice		we've	women	you're
twig	wag	whale	won	yourself
twin	wagon	what	wonder	yourselves
two	waist	what's	wonderful	youth
00000	wait	wheat	won't	you've
ugly	wake	wheel	wood	
umbrella	waken	when	wooden	
uncle	walk	whenever	woodpecker	
under	wall	where	woods	
understand	walnut	which	wool	
underwear	want	while	woolen	
undress	war	whip	word	
unfair	warm	whipped	wore	
unfinished	warn	whirl	work	
unfold	was	whisky	worker	
unfriendly	wash	whisper	workman	
unhappy	washer	whistle	world	
unhurt	washtub	white	worm	
uniform	wasn't	who	worn	
unkind	waste	who'd	worry	
unknown	watch	whole	worse	
unless	watchman	who'll	worst	
unpleasant	water	whom	worth	
until	watermelon	who's	would	
unwilling	waterproof	whose	wouldn't	
up	wave	why	wound	
upon	wax	wicked	wove	
upper	way	wide	wow	
upset	wayside	wife	wrap	
upside	we	wiggle	wrapped	
upstairs	weak	wild	wreck	
uptown	weakness	wildcat	wren	
upward	weaken	will	wring	
us	wealth	willing	write	
use	weapon	willow	writing	
used	wear	win	written	
useful	weary	wind	wrong	
	weather	windy	wrote	
valentine	weave	windmill	wrung	

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ATARI PROGRAM EXCHANGE

REVIEW FORM

We're interested in your experiences with APX programs and documentation, both favorable and unfavorable. Many software authors are willing and eager to improve their programs if they know what users want. And, of course, we want to know about any bugs that slipped by us, so that the software author can fix them. We also want to know whether our documentation is meeting your needs. You are our best source for suggesting improvements! Please help us by taking a moment to fill in this review sheet. Fold the sheet in thirds and seal it so that the address on the bottom of the back becomes the envelope front. Thank you for helping us!

1. Name and APX number of program _____

2. If you have problems using the program, please describe them here.

3. What do you especially like about this program?

4. What do you think the program's weaknesses are?

5. How can the catalog description be more accurate and/or comprehensive?

6. On a scale of 1 to 10, 1 being "poor" and 10 being "excellent", please rate the following aspects of this program?

- _____ Easy to use
- _____ User-oriented (e.g., menus, prompts, clear language)
- _____ Enjoyable
- _____ Self-instructive
- _____ Useful (non-game software)
- _____ Imaginative graphics and sound

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 rate the user instructions and why?

11. Other comments about the software or user instructions:

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