DisSPELLing a Myth

Judi Harris

College of William and Mary

Follow this and additional works at: https://scholarworks.wm.edu/educationpubs

Part of the Education Commons

Recommended Citation

To get back to the main board, simply type

`join "bbs`

To hang up, type

`hangup`

Try sending someone a page, just for fun. Exchange project ideas with colleagues. Set up electronic penpals for your students. Try an electronic cultural exchange with LogoWriter illustrations of "Life and Times in....." As we think about sharing actively and writing and creating for "publication" think of the possibilities of electronic sharing of children's work. Consider using LogoExpress to broaden the world for you and your students.

Useful Information

*LogoExpress* is available for MS DOS and 128K Apple computers from Logo Computer Systems, Inc. It comes with a program disk, either 3.5" or 5.25" format, with several pages set up for you. There is also a quick reference, a reference guide, a *LogoExpress* project book, and a user guide. *LogoExpress* requires a Hayes or Hayes-compatible modem and can operate at 300, 1200, or 2400 baud. A single computer version is available for $99.00. A single cpu host version, with the software to allow you to set up your own board, is $134. A building site license, allowing you to use *LogoExpress* at several computers, is $329.00 with a 10% discount to LogoWriter building site license holders. There's even a District License for a series of schools in a district, a great deal if you're purchasing anything more than a single host and single access. This costs $599.00 plus $159.00 per participating site and comes with extra booklets and quick reference cards for each site. Add 5% shipping and handling to these costs. Logo Computer Systems, Inc. can be reached by phone at 1-800-321-LOGO.

*Design Technology: Children's Engineering*, by Susan Dunn and Rob Larson, was published in 1990 by The Falmer Press, a division of Taylor & Francis, Inc., 1900 Frost Road, Suite 101, Bristol, PA 19007. ISBN: 1-85000-590-7. Taylor & Francis can be reached at 1-800-821-8312. They will charge the $18.00 cost to a major credit card and ship via UPS. My copy arrived in just three days!

Eadie Adamson
The Dalton School
108 East 89th Street
New York, NY 10128

On both LCSI bulletin boards my username is EadieA. I'd love to hear from you electronically!

---

**Logo LinX**

DisSPELLing a Myth
by Judi Harris

My students took spelling tests on words that they hadn't studied or memorized.

No, it wasn't cruel and unusual punishment. It was a different way to learn to spell. And, considering that they spelled most of the words (that they hadn't studied) correctly, I'd be willing to wager that either they learned to spell without memorization, or they were excellent spellers already.

If you had seen their writing in September, you would have known for sure that they did not begin the school year as national spelling champions. Yet they improved their spelling in a Logo-like way.

A Curricular Catalyst

"So what's so Logo-like about spelling?" you ask.

The answer is simple: *patterns*. Students can learn to spell better by recognizing and applying letter patterns, instead of memorizing 20 new words each week.

AIRS (Andover's Integrated Reading System), a mastery learning language arts program, contains a spelling module called "Structural Skills" that helps children to spell in this way. It is based upon the generalizations of eight structural skills: plurals, derived words, possessives, contractions, root words, hearing syllables, syllabication, and prefixes/suffixes.

With the AIRS program, students first learn a spelling *rule* by examining and discussing words that follow the same spelling *pattern*. For example, what common pattern do you see in the spellings of these root words?

<table>
<thead>
<tr>
<th>START</th>
<th>BUZZ</th>
<th>CRISP</th>
<th>BLINK</th>
<th>LAUGH</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUZZED</td>
<td>CRISPS</td>
<td>BLINKED</td>
<td>LAUGHED</td>
<td></td>
</tr>
</tbody>
</table>
The same is true for these words:

APPEAR
SEAM
COOL
TOOT
NAIL
BROAD

although they follow a different pattern. What is it?

Once students can recognize a spelling pattern and remember the rule that accompanies it, they can spell most words that they hear. There are a total of 39 structural skill rules in the AIRS spelling materials used in grades 3 - 8. That's fewer than two weeks' worth of things to remember, according to traditional spelling instructional methods.

DisSPELLing can be fun!

Paula Cochran and Glen Boll's "spelling fuzzies" ("SpecialTalk," Logo Exchange, October 1986) are a wonderful way to reinforce correct spelling using Logo. The AIRS materials inspired thoughts about some interesting ways to help insure correct spelling by attending to letter patterns.

Each of the words in the first sample (above) ended with two consonants. Let's see how to tell Logo to check a word for that pattern.

First, we need a procedure to tell if a letter is a consonant. One way to get the computer to determine this is to ask it to check to see if a certain letter is not a vowel.

```logo
TO CONSONANT? :LETTER
OUTPUT NOT VOWEL? :LETTER
END
```

To see how the CONSONANT? procedure works, type, for example,

```
PRINT CONSONANT "L"
```

The computer prints:

```
true
```

The following procedure uses CONSONANT? as a subprocedure to check for consonants as the last two letters of a word.

```
TO TWO.END consonants? :WORD
OUTPUT AND CONSONANT? (LAST BUTLAST :WORD) CONSONANT? (LAST :WORD)
END
```

Now you can type:

```
PRINT TWO.END consonants? "TURTLE"
```

and the computer will return:

```
false
```

Impelled to Spell

Did you figure out the second sample letter pattern mentioned above? All of those root words have two vowels appearing together, forming a vowel blend. Here is a procedure that uses the VOWEL? subprocedure to check recursively a word of any length to see if it has two vowels appearing in succession.

```
TO VOWEL.BLEND? :WORD
IF (COUNT :WORD) < 2 [OUTPUT "FALSE]
IF AND (VOWEL? FIRST :WORD) (VOWEL? FIRST BUTFIRST :WORD) [OUTPUT "TRUE]
OUTPUT VOWEL.BLEND? BUTFIRST :WORD
END
```

Now let's make the computer generate some root word and ending combinations that follow the vowel blend pattern.

```
TO DERIVED.WORD
OUTPUT WORD (PICK TWO.VOWEL.WORDS) (PICK VERB.ENDINGS)
END
```

TO PICK :OBJECT
OUTPUT ITEM (1 + RANDOM (COUNT :OBJECT)) :OBJECT
END

TO TWO.VOWEL.WORDS
OUTPUT [COOL MAIL NAIL WEED TOAST BREAD LEAF GROAN SEED LOAD]
END

TO VERB.ENDINGS
OUTPUT [S ED ER ING]
END
Type

PRINT DERIVED.WORD

and the computer might return NAILED or BREADING or GROANING. If you enter

REPEAT 5 [PRINT DERIVED.WORD]

what do you think will happen?

Pattern Power

Now, let's combine these procedures into a superprocedure that will help students to recognize and extend spelling patterns.

TO PATTERNS
  HT
  CT
  PRINT [Here are some words:]
  PRINT TWO.VOWEL.WORDS
  PRINT.BLANK.LINE
  PRINT [Please type a root word that follows the same pattern.]
  PRINT [[If you need a hint, type HINT.]]
  MAKE "NEW.WORD" READWORD
  IF :NEW.WORD = "HINT" [PRINT [V V]
    MAKE "NEW.WORD" READWORD]
  IFELSE VOWEL.BLEND? :NEW.WORD [PRINT
    [Great! Same pattern!]]
    [TRY.AGAIN]
  END

TO PRINT.BLANK.LINE
  PRINT CHAR 13
END

TO READWORD
  OUTPUT FIRST
  READLISTCC
END

TO TRY.AGAIN
  PRINT.BLANK.LINE
  PRINT [That's another spelling pattern. Try typing a different root word.]
  PRINT.BLANK.LINE PRINT [Press any key...]
  IGNORE READCHAR PATTERNS
END

TO IGNORE :KEYPRESS
END

I encourage you to write a similar set of procedures that utilize the two-final-consonants pattern. And then, how about plurals? Words that end in silent e? Contractions?

Yes, 'dis spelling can be fun.

For more information about AIRS Reading and Language Arts materials, write to:

AIRS
Andover Public Schools
Bartlett Street
Andover, MA 01810

An earlier version of this article was originally published in the April 1987 issue of Logo Exchange magazine.

Judi Harris works in the Department of Teacher Education at the University of Nebraska, Omaha as an assistant professor of educational technology.

BITNET: JHarris@UNOMA1
Internet: JHarris@Zeus.unomaha.edu
CompuServe: 75116,1207