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## A Meaning-Based Thesaurus from Old English to the Present

A computer research project at Glasgow University is developing the *Historical Thesaurus of English*, the first such effort for any language. Like the familiar *Roget's Thesaurus*, it will arrange words semantically rather than alphabetically. But the historical thesaurus will uniquely include most of the English vocabulary from Old English to the present, including obsolete words—and the obsolete meanings of current English. At present, historical dictionaries are arranged alphabetically, not semantically.

Since literary criticism is not fully valid without a period-specific awareness of vocabulary meanings, the value to scholarship is self-evident. The chronological order of word lists will not only reveal the entire range of words ever used for a particular idea or object, but will also show the range of words available to earlier authors for expressing those ideas at any time. The evolution of ideas in a variety of humanities disciplines is expected to benefit from this research tool. Contact Miss Christian Kay, Department of English Language, Glasgow University, Glasgow, Scotland.

## American Society for Information Science

In addition to the larger context of computers in the humanities, word-processing applications to writing and literature remain an important emphasis for the American Society for Information Science's Special Interest Group for the Arts and Humanities, including "making concordances, collating tests, discovering verbal correspondences between passages, characterizing styles, (and) machine-editing bibliographies." Those interested in contributing to or receiving a copy of the *SIG/AH Newsletter* should contact Dr. Ralph Dumain, Editor, *SIG/AH Newsletter*, 242 Ashland Avenue, Buffalo, NY 14222.

## Software Evaluation Guidelines from NCTE

The NCTE Committee on Instructional Technology is making available a 1984 version of its "Guidelines for Review and Evaluation of English Language Arts Software," a four-page set of guidelines for selecting software to fit lesson objectives and levels of instruction. It includes tips for evaluating software features such as "teacher management, instructional strategy, content, and ease of operation." Despite its K-12 orientation, others might find the standards worth considering. For a free copy, send a stamped, self-addressed envelope to the National Council of Teachers of English, 1111 Kenyon Road, Urbana, IL 61801.

## **Call for Papers**

November 15, 1984, is the deadline for submitting paper and demonstration abstracts to the International Conference on Computers and the Humanities to be held June 26-28, 1985, at Brigham Young University in Provo, Utah. Papers and demonstrations may deal with the application of computers to any area of the humanities, including word processing, text analysis, and other such applications. Abstracts must include full name, address, telephone number, academic affiliations, and a list of any equipment needed for the presentation. They must be written in English and should not exceed 500 words. The sponsoring Humanities Research Center at Brigham Young has its own IBM 370/138 mainframe computer, numerous micros, several specialized printing devices, and a Kurzweil Optical Scanner—a reading machine equipped with 2,500 pronunciation rules to turn book print into synthesized speech. Contact Randall Jones/ICCH85, Humanities Research Center, 3060 JKHB, Brigham Young University, Provo, Utah 84602.

## **Electronic Text Consortium Newsletter**

A free subscription to the *Electronic Text Consortium Newsletter* is now available. Published bimonthly during the academic year, the newsletter focuses on academic uses of videotex-television and other "rapidly emerging electronic text technologies and their potential applications in higher education." First published in April-May 1984, the newsletter is a product of the Program on Electronic Text for Higher Education, "a complex of research and demonstration activities supported by the Annenberg/CPB Project." Contact: Newsletter, Electronic Text Consortium, Center for Communications, San Diego State University, San Diego, CA 92182.

## **National Science Foundation Research Awards**

Though the National Science Foundation makes no grant awards for curricular initiatives, its Division of Information Science and Technology accepts proposals in three research programs:

- 1) The Information Science Program seeks "to increase understanding of the properties and structure of information and information transfer.
- 2) The Information Technology Program seeks ``to contribute to the store of scientific and technical knowledge which can be applied in the design of information systems."
- 3) The Information Impact Program seeks "to improve understanding of the economic and other impacts of information science and technology."

Beyond computer science and information science departments, awards are most common in psychology, sociology, linguistics, and philosophy—including some awards for conferences, publications, and travel to foreign conferences. In general, research approaches should be primarily quantifiable. The computer itself has, however, made quantitative studies far more attractive to humanists in writing and literature programs—and other traditionally ``soft'' humanities disciplines. Interdisciplinary efforts between, say, English departments and scientific and engineering disciplines are also worth exploring.

Further information about Division programs can be obtained in the *Program Announcement* and *Summary* of *Awards: Fiscal Year 1983.* Contact Dr. Caroline Eastman, Director, Division of Information Science and Technology, NSF, Washington, DC 20550.

Title: ``Models of Human Performance Using Text Editors''

**Duration:** Two-Years

Amount: \$74,506

**FY:** 1983

Director: John M. Hammer

Place: Georgia Institute of Technology

**Summary:** "This is an investigation of how human beings use text editors to search for and modify text. When searching for text with an editor, the user is assumed to employ imprecise knowledge of the text across which the editor must be moved. This assumption, applied to several rather different search methods, can yield considerable insight into the behavior of a user searching for text. A second assumption is that when modifying text and when choosing which search method to employ the user chooses the optimal method subject to certain constraints. To construct models of these behaviors, it is necessary first to define the criteria to be optimized. Then one must find constraints such that the models approximate human performance. These constraints can be interpreted as limitations on human information processing."

Example of Funded Information Technology Program

# Faculty Position Announcements Welcomed

As a no-charge service, the Research in Word Processing Newsletter will publish position openings which invite applications from job-seekers with experience in word-processing applications to academic-writing programs. Send vacancy announcements to the Editors, Research in Word Processing Newsletter, South Dakota School of Mines and Technology, Rapid City, SD 57701.

## **Notice of Vacancy**

Texas A&M University has a tenure-track job opening for someone involved in computers and writing, including "technical writing, computers, and empirical research." The nine-month position offers a starting salary of \$21,000, in addition to excellent resources and exciting possibilities for research. Vitae are also encouraged from those with greater research experience who are seeking higher rank and salary. The deadline for applications is November 16, 1984. Contact: Dr. David Stewart, Chairman, Department of English, College of Liberal Arts, Texas A&M University, College Station, TX 77843-4227.

# Database Management for Teachers and Researchers — Part II

Last month we began our series on Database Management (DBM) software, introducing you to the two types of DBMs—file managers and relational database systems. Always keep in mind that your students, too, can benefit from the potentials afforded by DBM systems: in future installments we will explore some of these student-oriented applications of DBM. For now, though, let's begin Part II of "Database Management for Teachers and Researchers" by exploring how the limitations some DBM programs place on the length of information contained within a record's fields can have a significant effect on the program's overall usefulness for the teacher and researcher.

The amount of information which can be entered into a DBM's record field often depends on the primary application for which the software was written. Business-oriented DBMs—which make up the majority of programs currently on the market—frequently set maximum field lengths of between 40 and 255 characters (five to thirty-one words). While this range might seem quite small to academics used to penning protracted annotations in descriptive bibliographies, remember that most business applications in which data must be stored and retrieved use highly specialized, often cryptic alphanumeric and mnemonic codes for such things as part numbers, sales personnel, geographic regions, international distributors, etc.; thus, business has little need for record data fields longer than 255 characters.

Teachers and researchers, on the other hand, think and write in words and sentences—not part numbers—requiring a minimum of 700 to 1,000 characters per field (five to ten sentences).

Unfortunately, most DBM programs that afford users this increased field length exact a price both in terms of the software's increased cost and the additional memory (RAM) the computer needs to operate such a DBM system. Then again, even with enhanced field-length parameters, most software remains number-oriented instead of text-oriented: they can locate only single key words at the beginning of fields instead of being able to locate a word or phrase within a paragraph—or even a grouping of two words!

As you can see, there's a great deal to know about DBM systems before purchasing one. Still, with some advanced planning, a DBM can become the answer to your worst information-retrieval nightmare. Next time, we'll explore the differences between number-oriented and text-oriented DBMs and describe how each can be made to work for you in your teaching and research applications.

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## SOFTWARE REVIEW - SuperWriter

The newsletter does evaluations of word-processing software to help you discover programs that might fulfill your and your students' writing or research needs. This month, we evaluate *SuperWriter*, a full-featured word-processing program sold by Sorcim/IUS Corporation.

When reviewing a word-processing package, we are not endorsing any product. Rather, we are describing the software's strengths and weaknesses and examining how these features (or lack of them) might affect students and teachers in academic writing situations.

PROGRAM: PUBLISHER: ADDRESS:	SuperWriter Sorcim/IUS Corporation, Inc. 2195 Fortune Dr. San Jose, CA 95131
PUBLISHER: ADDRESS:	Sorcim/IUS Corporation, Inc. 2195 Fortune Dr.
ADDRESS:	2195 Fortune Dr.
	San Jose, CA 95131
LIST PRICE:	\$295.00
WILL RUN ON:	CP/M, MS-DOS, and PC-DOS systems
MEMORY (RAM) NEEDED:	64k (CP/M); 96k (MS-/PC-DOS)
DISK DRIVES NEEDED:	two
SPELLING DICTIONARY:	20,000 word, expandable by user
CORRECTION METHOD:	marks words
ON-DISK TUTORIAL:	n/a
QUALITY OF MANUAL:	excellent
EASE OF LEARNING:	moderate
EASE OF USE:	moderate
DISK COPY-PROTECTED:	no
	MEMORY (RAM) NEEDED: DISK DRIVES NEEDED: SPELLING DICTIONARY: CORRECTION METHOD: ON-DISK TUTORIAL: QUALITY OF MANUAL: EASE OF LEARNING: EASE OF USE:

#### COMPOSITION

<b>FEATURES</b> Help screens (video tutorials you can call upon while editing or formatting text)	YES-NO yes	<b>COMMENT</b> no matter where you are in the program's editing or formatting structure, depressing the CON- TROL key [CTRL] and the backslash key [\] together will provide you with currently available program options
Automatic headers (titles)	yes	insertable anywhere within the top and/or bot- tom margins of a document by using the <b>\HE</b> (for header) or <b>\FO</b> (for footer) embedded commands
Full-screen cursor control (ability to move to any spot on the screen to edit)	yes	you can get around quickly in your document by using various [CTRL] plus alphabetic character- key combinations (e.g., <b>[CTRL] F</b> moves the cur- sor word by word)
Automatic word wrap (no ``Return'' or ``Enter'' required at the end of each typed line)	yes	SuperWriter's wordwrap feature may be toggled off and on by using the command \WRAP Y (on) or \WRAP N (off)
Adjustable left- and right-margin settings (e.g., for indenting extended single-spaced quotations)	yes	the right margin is adjustable to up to 250 columns through the GLOBAL-SETTINGS MENU (see Fig. 1), the SW.DEF user-created default file (see Fig. 2), or by using the \LM embedded com- mand.

Single and double spacing

View your text on the screen as it will appear

on paper after printing

document

Search for and/or replace words

yes

full- and half-line spacing are supported through the \SP command; results not visible while editing, though

#### **Document: A: RWPNTEST** SuperWriter 1.02 11:25 Mode: Text Word-Wrap: Yes Visible Line Breaks: Yes Visible Returns: Yes Visible Print Controls: Yes Visible Blanks: No Visible Soft Hyphens: Yes Line Width: 65 Tab Columns: [---+---1---+----3---+---4---+---5---+---6----] Change Gobal Document Settings: - Change Line width - Change Tab stops - Set Program options - Set Text options - Select Custom options Space bar = Move Cursor, CR = Select, ESC = Cancel, ? = AnswerKey Fig. 1: Global Menu Settings Automatic text adjusting no SuperWriter provides four different insertion modes: type-over (where characters replace others), insert (where characters are inserted as existing text moves over to accommodate the additions), auto-insert (where inserted characters type over existing ones and move others when the cursor is over a space), and page (where the text following the cursor is moved down on the screen to make room for extended additions)

ves in addition, the program gives you the following options: print with or without formatting and print to disk instead of to paper

the find and replace character strings may be up yes to 24 characters long, including blanks and control characters (as with paragraph markers); user may request to be prompted or not as the operation takes place

Move text from one location to another in a ves first, mark the block of text you wish to move using [ESC] \ at the beginning and the end of the block; then move the cursor to where you want the block inserted and press either [ESC] C B to copy the block (leaving the original where it is) or [ESC] M B to move the original to the new location

_			
	SETTING	FUNCTION	RANGE
	LW #	Line width	0-250
	TAB #, #	Tab settings	1-Line Width
	WRAP y/n	Word wrap	
	VRET y/n	Visible returns	
	VBLNK y/n	Visible blanks	
	VBRK y/n	Visible line breaks	
	VCTRL y/n	Visible print controls	
	VHYPH y/n	Visible soft hyphens	
	SOLC #	Screen overlap	0-22 lines
	MTA y/n	Menu type-ahead	
	BELL y/n	Bell on/off	
	DDISK X	Document disk	Drives A through P
	INSERT X	Insert mode	I, A, or O
	OFF X	Output file format	Regularizes .EXT
	TRB y/n	Tabs replace blanks	-
	LM #	Left margin	0-99 columns
	SP #	Line spacing	1-65
	PL #	Page size in lines	1-99 lines
	TM #	Top margin	0-65 lines
	BM #	Bottom margin	0-65 lines
	PLW #	Print width	8-250 columns
	COPY #	Number of copies	1-999
	FORMS X	Continuous or single-sheet	C, S
	DRAFT y/n	Draft printer	
	PROP y/n	Proportional print	
	CPI #	Characters per inch	10, 12, 15
	LPI #	Lines per inch	6, 8
	Bl y/n	Bidirectional printing	
	UN b/s	Underling broken/solid	
	BFI #	Boldface intensity	1 through 9
	CMD X	Embedded formatting char.	replaces \
	JUST y/n	Word justification	spaces between
	JUSTC y/n	Character justification	spaces between
	DICT X	Default user dictionary	
	AUTHOR X	Author's name	20 characters
	COMMENT X	Comment	24 characters
	OPERATOR X	Operator's name	20 characters

# Fig. 2: SW.DEF Default Settings

for footnoting in research papers

#### LITERATURE yes

CREATIVE WRITING				
Ability to space lines in less than full increments (quarter- and half-line spacing)	yes	important when the appearance of a document complements content (i.e., in concrete poetry)		
Proportional spacing	yes	adjustments are made by inserting spaces be- tween letters (true micro-justification, which uses 1/120" increments between characters to make a document look like it was printed profes- sionally); in addition, <i>SuperWriter</i> supports an embedded command \K, in which you can adjust inter-character spacing on a character-by- character basis (referred to as "kerning" by printers)		
Right-justified text (text lines up on the right margin)	yes			
	TECHNICAL W	RITING		
Subscripting (H₂O)	yes			
Graphics	no	you can, however, insert ASCII control and print characters directly into your text by using [CTRL] Q ^ X (where ``X'' is the specific ASCII character you wish to insert)		
PROFESSIONAL				
Create your own ``HELP'' screens	no	with this feature, you can design your own on- disk grammar, rhetoric, and usage tutorials that your students may call up at anytime during an editing or writing session		
Text merging (also referred to as ''boilerplating'')	yes	with this feature, you can create, store, and recall frequently used citations; this feature is extremely powerful in <i>SuperWriter</i> , providing you with complex Boolean algebraic functions as well		

yes

Superscripting (... the end."<sup>12</sup>)

**Background printing** 

allows you to print a document while editing another

as the standard insert functions

with complex Boolean algebraic functions as well

Document: A: RWPNTEST DOCUMENT COMPOSER 1.02 11:27								
Printer: EPSON-MX GRAF Disk:	Pass 1 Page 1	Record #: 0 Line 1	Start Record #: 0 Stop Record #: Last					
Format Settings:Control Settings:Left Margin(0-99) is 10Copies(1-999) is 1Line Width(1-250) is 65Forms(C, S) is CSpacing(1-65) is 1End Page #(1-999) is 999Page Size(1-99) is 66Begin Page #(1-999) is 1Top Margin(0-65) is 6Begin Page #(1-999) is 1Top Margin(0-65) is 6Printing Options:Format and PRINT document-Format On-screen-Change Format settings-Change Control settings-Secondary Print functions-Return to System								
Space bar = Move Cursor, CR = Select, ESC = Cancel, ? = AnswerKey								
	Fig. 3: Print Menu							
Document: A: RWPNTEST		SuperWriter 1.02	11:30					

Output Format: S/Writer Save History: Yes

Tab Insertion: No

Workspace contains:

- 55 Words
- 279 Characters
  - 5 Lines
  - 1 Pages
- (32969 Free)

Save your document on disk:

- Save document
- Rename and save document
- Change output format

**Space bar =** Move Cursor, CR = Select, ESC = Cancel, ? = AnswerKey

Fig. 4: Menu Screen—File

#### **OTHER FEATURES**

SuperWriter has just about everything you could ask for in an advanced word-processing package, and more. Two of the more noteworthy features are the ability of the user to create any number of "default" configuration programs by defining variables in an SW.DEF file (see Fig. 2) and the ability of the program to "remember" a complex series of keystrokes as an .XQT extension file for reuse during an editing session or during a future session (simply recall the .XQT file before entering the SuperWriter program: A> SW "Name of .XQT file goes here"). Also, after each document is saved to disk, you are given a display of the number of words, characters, lines, pages, and keystrokes used in the text—as well as the amount of filespace remaining.

#### **PRINTER SUPPORT**

The ultimate test of any word-processing program is its ability to support basic and, when applicable, advanced text-formatting features on both letter-quality and dot-matrix printers (more specifically, the printer or printers you either presently own or can afford to purchase). Note that specific model numbers within printer families aren't always listed; therefore, it would be a good idea to try the program out before purchasing it. Here, then, is a list of printers directly supported within *SuperWriter's* "INSTALL" program: **STANDARD** (no underlines), **DRAFT** (with underlines), **NEC SPINWRITER, DIABLO, SELLUM, QUME, XEROX, EPSON MX80/100, EPSON W/GRAFTRAX, EPSON RX80, EPSON FX80/100,** and **IBM GRAPHICS.** 

#### **OVERALL EVALUATION**

SuperWriter isn't the easiest to learn word-processing program on the market, but many of the "easy-to-learn" packages fail to deliver features such as variable line spacing within a document, superscripting and subscripting, boilerplating capability, and the like. Since the software is, essentially, menu-driven, there are few wrong turns you could make that aren't easily changed either by the program directly or by you through program prompts. Recommended for high school and beyond, SuperWriter combines a versatile text editor with extensive print-formatting options, making it a real contender in the middle-priced range of WP programs.

[ED. NOTE: The categories we include in our software reviews reflect course offerings found in academic settings. If you feel we should add other categories that address common writing initiatives, or if you would like to see more program features included under existing categories, let us know.]

## Manuscript Submissions Welcome

The newsletter welcomes from our readers article submissions which pertain to word-processing applications in academic writing. Manuscripts should be OCR readable (Courier, Letter Gothic, or similar letter-quality typefaces) or may be submitted on disk using WordStar or standard ASCII code in IBM-PC DOS (5<sup>1</sup>/<sub>4</sub>" diskette; 1.1, 2.0, or 2.1) or CPT 8500 (8" disk) formats (direct uploading of articles via modem will be available soon). All manuscripts should include a short autobiographical sketch. The Editors reserve the right to edit articles, if necessary. If you want your manuscript returned, please enclose a stamped, self-addressed envelope with your submission. Address all correspondence to the Editors, *Research in Word Processing Newsletter*, Liberal Arts Department, South Dakota School of Mines and Technology, 500 E. St. Joseph, Rapid City, SD 57701-3995.

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