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16-bit Sound I/O: Power Macintoshes and AV-Macintoshes, AudioMedia, any Apple-compatible driver

8-bit Sound I/O: Apple integrated, MacRecorder
Sound Reproduction: Slow down or speed up speech, up to five times normal

Editing: Signal editing, automatic trimming, manual scoring, text editing for scoring results, horizontal and vertical signal zoom

Labelling: Interactive, nine hierarchical levels, saved in ASCII with signal

Spectral Analysis: Spectrum, cepstrum, LPC, cone kernel

Spectrograms: Black & white, 16 and 256 colors/grays, saveable, long-term averaged spectrum, can be saved to file as dB or raw FFT values

Pitch extraction: FFT-comb, autocorrelation, temporal structure analysis

Statistics: Max, min, delta, mean, sd, ratio max/min, slope, relative dB in signal and spectrum, kurtosis, skewness, number of observations, duration

Transformations: Arithmetic, transcendental, up- & down-sampling, limits, splines

Analyses: RMS/Power envelopes, zero-crossings

Filtering: Butterworth, Chebychev, Average, Hamming

Signal Formats: Signalyze, AIFF, Sound Designer, Sound Edit, Sound Resource, ASCII, plus 15 other Mac, DOS, UNIX and binary 8-16 bit formats via file conversion utility

Image Format: PICT (B/W, 16 and 256 colors/grays)

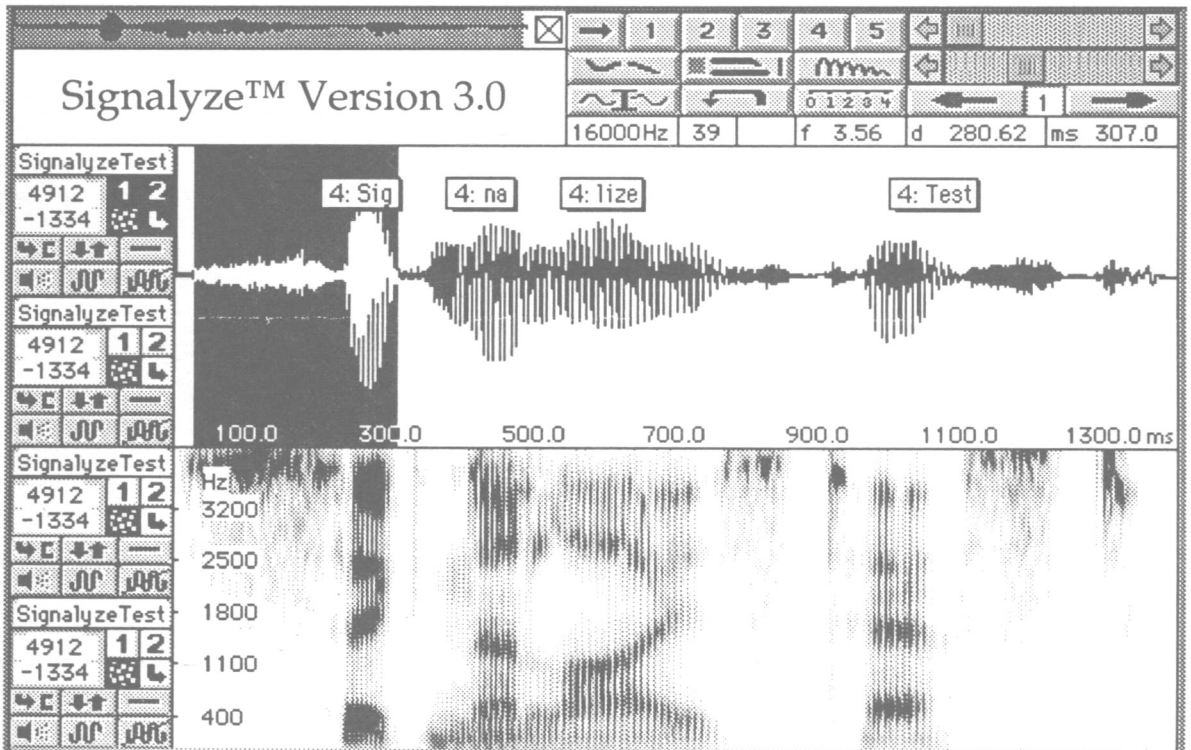
Compatibility: Macintoshes from MacPlus, 4 Mb + HD and up, including PowerBooks, Portable, IICX, IICi, IIVI, IIVX, IIFX, Quadras, Centris, Power Macintosh etc.

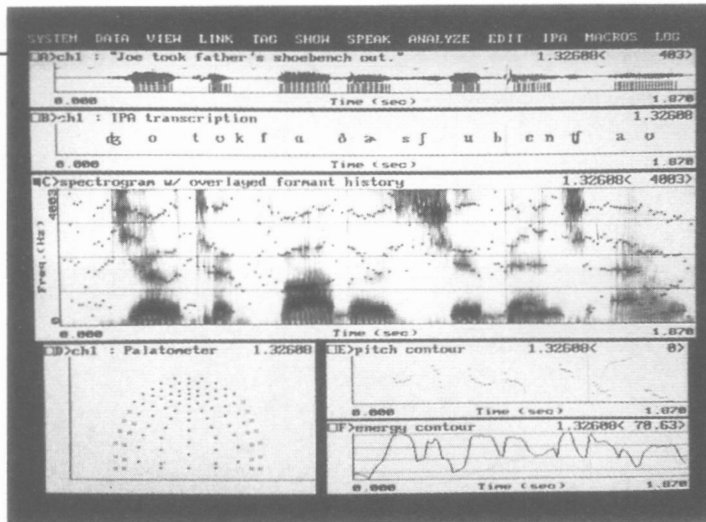
Interface: Switchable into English, French and German

Help: Trilingual 170 k on-board Help, trilingual Balloon Help. Also on-board Help in Italian.

Manual: Eight tutorials, Reference, Technical Information, English or French, 250/270 pages

Price: Individual US\$450, departmental US\$750, organisational US\$1250.





Multiple windows of analysis including speech waveform, phonetic transcription (time-linked to waveform), spectrogram overlaid with formant trace, pitch and energy contour and lingua-palatal contact in lower left is linked to cursor in spectrogram.

CSL offers extensive analysis capabilities for acoustic phonetics.

The Computerized Speech Lab (CSL™, Model 4300) is the most powerful PC-based system available for speech acquisition, analysis, editing and playback. Built on Kay's long experience in speech analysis, the CSL is designed to accommodate the wide variety of speech processing tasks required in acoustic phonetics teaching and research.

Features

- Extensive analysis formats including spectrograms, power spectrums, LPC formant traces, pitch extraction, amplitude traces and waveform analysis
- On-screen IPA transcription with all 196 characters including diacritics, time-linked to the waveform and spectrogram
- Extensive commands for editing, digital filtering, warping, splicing, appending, mixing, signal generation and other commands for exact manipulation of the signal for perceptual experiments
- Interface to Palatometer display to precisely relate lingua-palatal contact patterns to speech acoustics

Programs for Acoustic Phonetics

- Speech parameter manipulation, editing and synthesis with pitch-synchronous residual-driven LPC for superior speech output
- Real-Time Spectrogram display for classroom demonstrations
- Phonetic Database of over 1,800 speech samples from 25 languages on CD-ROM
- Database of English phonemes in development showing IPA symbols, waveform, lingua-palatal contact, spectrogram and high fidelity sounds
- Direct-to-Disk recording to allow acquisition of signals longer than the system RAM can accommodate

Contact Kay today at (800) 289-5297 to receive your FREE "demonstration disk".

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Journal of the International Phonetic Association

NOTES FOR CONTRIBUTORS

Policy. The *Journal of the International Phonetic Association* (formerly entitled *Le Maître Phonétique*), is concerned with all aspects of the theory, description, and use of phonetics and phonology. Contributions are subject to review, and to the Editor's final decision as to publication. The primary language of the *Journal* is English, though contributions in other languages of wide scholarly currency, such as French, German, and Russian will be accepted. Contributions not written in English should be accompanied by an English abstract.

Manuscript style. Contributors are encouraged to submit their text, if possible, on Macintosh diskette (800Kb or 1.4Mb), in 12 pt. Times font. The *Journal* is set using Microsoft Word, which is compatible with MacWrite and many other word-processing programs. Disks from DOS-based computer systems (5 $\frac{1}{4}$ " or 3 $\frac{1}{2}$ "") can also be used if a Macintosh is not available; in such cases the text file should preferably be in Word or WordPerfect format or in ASCII. In other circumstances, contributions should be submitted in typewritten or computer printout form, in double spacing with wide margins, printed on one side of the sheet only. The *Journal* uses American standard spelling and punctuation. The text should use two levels of headings: (1) Main headings are placed above the paragraph, numbered, and formatted flush left, bold; (2) subheadings are also placed above the paragraph, unnumbered, and formatted flush left, italic, with a period following. Acknowledgments (with a centered bold heading) follow the text and precede the references. Tables should be included in the text at the appropriate location. The style conventions of the *Journal* should be followed wherever possible, and the Editor reserves the right to alter contributions so that they conform to house style.

Footnotes and references. Footnotes should be avoided as far as possible. Citations are to be made IN THE TEXT by giving in parentheses the name of the author and the year of publication, and where relevant the page(s) referred to: e.g. "... (Jones 1963) ...", or "... Jones (1983: 453) ...". Where essential, footnotes should be indicated in superscript consecutively throughout the text, and collected as a separate sheet at the end of the manuscript. All works referred to should be listed at the end of the article, using the following format:

References

- CHAO, Y.-R. (1930). A system of tone letters. *Le Maître Phonétique* 30, 24-27.
- O'CONNOR, J. D. and ARNOLD, G. F. (1973). *The Intonation of Colloquial English*. Second edition. London: Longman.
- SAGEY, E. (1986). The Representation of Features and Relations in Nonlinear Phonology. Ph.D. dissertation, MIT.
- SAMPSON, G. (1987). Probabilistic models of analysis. In Garside, R., Leech, G., and Sampson, G. (editors), *The Computational Analysis of English*, 30-41. London: Longman.

Transcriptions and figures. Phonetic transcriptions should make use of the symbols and conventions of the Association's alphabet in its latest revision. The set of phonetic symbols used at present in the *Journal* is available as LaserIPA from Linguist's Software, Inc., P.O. Box 580, Edmonds, WA 98020-0580. Phonemic symbols should be enclosed in slashes, and allophonic or general-phonetic symbols in square brackets, e.g. /teI/, [tet], [m]. Figures may be submitted either in computer file form, using one of the standard paint programs on the Macintosh, or as clear originals on paper. In either case they should be drawn to a standard which will allow them to be reproduced clearly in photo-reduction.

Proofs and offprints. Proofs will be sent to the author (or their nominee), who will be expected to correct them and return them to the Editor, by airmail where appropriate, within ten days of receipt. The Editor may also confer with authors by e-mail; please supply an e-mail address if available. Upon publication, 25 copies of a contribution will be supplied to the author free of charge; further offprints may be purchased at cost.

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