

Writing Pitman shorthand with Metafont and L^AT_EX

Abstract

With pen shorthand, the traditional speech-recording method, unwritten speech is at first manually captured and then transcribed into a digital text. We have built programs which reverse the second step of this process, i.e. transform text into shorthand. Here we present as a special case an online system, which converts English text into Pitman 2000 shorthand using Metafont and L^AT_EX. The impact of our system on pattern recognition of handwritten shorthand and on stenography teaching is discussed.

In order to approximate the speed of speech, alphabet based shorthand systems make use of phonetic writing, abbreviations and simplified writing, thus reducing the redundancy of the orthographic code and the graphic redundancy of longhand characters.






In the following sections we exemplify these principles with the *Pitman shorthand language* (abbreviated as *rst*) and describe how the Pitman 2000 shorthand system can be implemented in Metafont [4].

Elements of PSL

A glyph of one or more words as denoted with *rst*, the so-called *stems* is composed of

- an *outline* – consisting of joined consonant signs,
- written without lifting the pen from the paper, and
- diacritics* – corresponding to vowel phonemes.

The stem components are written in this order.

An example: The stem of the word ‘rote’  pronounced as r + ou + t is built of the outline  formed by joining the strokes (r)– and (t)–, the signs¹ of the consonant phonemes r and t and the heavy dash sign [ou], the diacritical mark of the vowel ou, following .

The signs of consonant phonemes. These signs, also called *strokes*, are either line segments or quarter circles:



Though invented in 1807, the *rst* design is guided by modern phonological classifications and principles [7, 8].

Thus the signs of voiced consonants are more firmly written variants of their unvoiced counterparts. Friction vs. occlusion of a consonant is denoted by rounding the corresponding sign (cf. the rows). A change of the place of articulation causes a change of slant in consonant signs (cf. the columns).

Remaining strokes² are:



The signs    are horizontals,   are upstrokes,³ all other consonant signs are downstrokes.

Vowel, diphthong and triphthong signs. These diacritical signs are placed alongside a consonant sign, before or after it, depending on whether the vowel is read before or after the consonant, i.e. going from the beginning of a stroke on the left-hand or the right-hand side of upstrokes and horizontals if the vowel is read before or after the consonant. Places are changed for downstrokes.



Twelve vowel diacritics are realized in *rst*. They are differentiated by their glyph (light or heavy, dot or dash) and its position. Any consonant sign has three places for a vowel sign to be located according to the direction in which the consonant stroke is written: at the beginning (1st), in the middle (2nd) or at the end (3rd place).

Writing Pitman Shorthand With Metafont And Latex

Emily D. Smith



Writing Pitman Shorthand With Metafont And Latex:

TeX, XML, and Digital Typography Apostolos Syropoulos, Karl Berry, Yannis Haralambous, Baden Hughes, Steven Peter, John Plaice, 2004-11-12 This volume contains the papers that were accepted for presentation at the International Conference on T X XML and Digital Typography jointly held with E the 25th Annual Meeting of the T X Users Group in Xanthi Greece in the sum E mer of 2004 The term Digital Typography refers to the preparation of printed matter using only electronic computers and electronic printing devices such as laser jet printers The document preparation process involves mainly the use of a digital typesetting system as well as data representation technologies TXand E its offspring are beyond doubt the most successful current digital typesetters while XML is the standard for text based data representation for both business and scientific activities All papers appearing in this volume were fully refereed by the members of the program committee The papers were carefully selected to reflect the research work that is being done in the field of digital typography using T X and or its E o spring The problems for which comprehensive solutions have been proposed include proper multilingual document preparation and XML document processing and generation The proposed solutions deal not simply with typesetting issues but also related issues in document preparation such as the manipulation of complex bibliographic databases and automatic conversion of text expressed in one grammatical system to a more recent one as for the Greek language converting between monotonic Greek and polytonic Greek The conference is being graciously hosted by the Democritus University of Thrace in Xanthi and by the Greek T X Friends We wish to thank Basil K

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