

An Index of Greek Ligatures and Contractions Author(s): William Wallace Source: *The Journal of Hellenic Studies*, Vol. 43, Part 2 (1923), pp. 183-193 Published by: The Society for the Promotion of Hellenic Studies Stable URL: <u>http://www.jstor.org/stable/625810</u> Accessed: 11/09/2008 07:39

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AN INDEX OF GREEK LIGATURES AND CONTRACTIONS

INTRODUCTION

THIS Index owes its origin to the deciphering of a folio printed in Greek in Paris in 1628. As other books came under my eye, I found that in addition to the ligatures which I had analysed there were still many others, and I was so beguiled by their manifold and often obscure forms that I went far afield in my researches. It was surprising, no less than disconcerting, that with the exception of Proctor, to whom reference will presently be made, no one in modern days had occupied himself with a phase of Greek typography which, owing to its crabbedness and elusive contractions, based no doubt upon the Tironian practices of the scribes, had estranged students from the study of later Greek literature.

Beginning with the Baskerville fount of 1763, I worked backwards, overtaking the Paris fount, till, with a Froben as a complication, I was entangled in an Aldine. This led me to Proctor's erudite monograph on *The Printing of Greek in the Fifteenth Century*, which was of great value, for by its means I was able to verify my own decipherings and at the same time to add to my list fresh examples from the texts and founts which he had analysed.

Apart from Proctor's work only three lists were accessible. The first was that of Aldus Manutius (1494–5), who gave clues to the more complicated sorts ¹ in one of his founts, adding that he passed over many 'connexiones' as they could be identified very easily. The next list was that printed at the end of the Greek Grammar of Ramus (Hanover, 1605), in which the Aldine 'connexiones' were included and others as well, a thoughtful proceeding if the Grammar was to be of any use, for it was printed almost entirely in ligatures. There were over 300 examples in this list. The last was the *Grande Police* of Fournier le jeune, Paris, 1764, which gave 376 ligatures in a fount of 776 sorts.

Obviously these lists could print only such sorts as existed in their founts; the Fell types, for instance, had extremely few, a sign that the English printers had begun to discard the ligature in favour of the simple sort.

Owing to the melting down of founts containing ligatures, an Index of this kind cannot be printed from type; it has to be copied by hand and reproduced by process from the manuscript. When it is considered that in an old fount there were hundreds of sorts—sometimes over a thousand—it is conceivable that in the preparation of this Index of over 500 ligatures some rare examples may have been overlooked, and therefore any additions will be gratefully acknowledged. When a fresh fount was examined its contractions were

¹ A "sort" is the printer's term for a single character or piece in his fount.

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compared with those already noted in order to secure accuracy. The deciphering was simple when a modern reprint was available, but the works which afforded the richest harvest were for the most part strange treatises on all manner of subjects, from Astronomy to Gastronomy, which had remained enshrined if not interred in their original garb. In these the open letters of a word threw light upon the ligature, and when these failed, examples and sentences had to be collated. Again, though the meaning of a ligature was clear, its shape was not accepted until a number of specimens in the same book had been examined in order to exclude the possibility of a batter or broken type.

This is not the place to discuss what was the unit in a combination sort. My sole purpose is to assist the eye of the student, and purists in typography will perhaps visit me with their censure for including as a ligature a combination which consists of a 'kern' and a ligature. A 'kern'-French, créné or crénage -is defined as ' that part of a letter which overhangs its body, as in a lower-case f,' (Jacobi, Printing, sixth edition, p. 63). But in Greek typography a 'sort' is said to be 'kerned' when part of the body or shoulder is cut away so as to allow the next ' sort ' to be brought so close that there is no visible space beween the two. Thus sigma alpha or tau alpha (there are many other instances) were frequently kerned so as to present an unbroken continuity, and as they appeared to run into one another they were accepted as ligatured. Hence it is possible that some of the examples were copied from two sorts so neatly kerned that they looked like one. My aim, however, was to reproduce appearances and shapes rather than to split hairs over typographical niceties. Accents and breathings are shown when they form part of the ligature, but in doubt the word itself, and failing it the context, will prove the surest guide.

It is rather late in the day to asperse the practices of the early designers of Greek founts or to quarrel with their type-setters. Litera scripta manet. What the 'litera' meant is the whole function of this Index. The compositor who read olov as we prefer it had no scruples about printing it as blov and blov in one and the same line. Compare xi. 20 and 21. In one fount ἀραρίσκω occurred with a different ligature for each $\alpha \rho$, as though the breathing demanded discrimination. The compositor merely picked up the sort that was nearest. There are dozens of instances of misplaced accents and breathings, of different sorts and different ligatures for the same letters in one line of print. The crux in xix. 18 might weigh against accuracy in transcription. But it is just these liberties which the fifteenth-century compositors took which disconcert the scholars of the twentieth. Examined in the light of scholarship the ligature is wide of the mark in the placing of a circumflex over a short vowel, but the contraction exists in print. What happened was this. The compositor had to get in the words $\lambda \alpha \mu \beta \dot{a} \nu \epsilon \tau' o \dot{\nu} \nu$, but in order to justify his line he left out the space and ran two words together. So he kerned omikron and tau, put the apostrophe and breathing over omikron, and the circumflex on top. A short vowel circumflexed is, like metal on metal or colour on colour in heraldry, pour enquérir, and an Index of this kind, if it is to serve its purpose, must contain examples of inconsistencies and perversions, for it is these, far more than the stereotyped ligatures, that are difficult to interpret.

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Ligatures are more easy to read when they are detached from the words in which they occur, and therefore when a syllable or word has a variety of ligatures, as iii. 1 to 8, the reading is given once only so as to avoid crowding and repetition. Detached specimens of a single sort, such as ii. 18, or xviii. 13, are written on the same line.

The sorts in brackets show the manner in which symbols and contractions are combined with sorts, as in xi. 23 and xxiii. 12. The sort viii. 2 is an example of an apostrophe and rough breathing kerned, though it looks like an error in transcription. It is the unexpected that complicates deciphering, especially in founts of small size, and it is safer not to pillory the interpretation of a ligature without patient inquiry, for, however wrong the compositor, the scrupulous transcriber cannot be held accountable for breaches of scholarly decorum. The pitfalls are many, but it is hoped that this *farrago literarum* will be of some use in allaying the apprehensions of those who have been deterred from investigating early books printed in Greek owing to the forbidding aspect of their typography.

I wish to acknowledge my indebtedness to Mr. V. Scholderer of the British Museum for his interest and advice, and for his calling my attention to some examples which I had overlooked.

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WILLIAM WALLACE.