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PRONUNCIATION
OF
ANCIENT GREEK

TRANSLATED FROM THE THIRD GERMAN
EDITION OF DR BLASS

WITH THE AUTHOR'S SANCTION

BY

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PREFACE.

THE present translation of Dr Blass' work on ancient Greek pronunciation represents the third and latest German edition, and the translator has throughout its production had the advantage of the advice and help of the author, who kindly undertook to read all the proof-sheets.

A few words are necessary touching the system of transliteration adopted by the translator. As regards the consonants little difficulty presented itself. He was able here simply to adopt the transliteration used by the author, only making the necessary changes of *y* for *j*, *ch* for *tsch*, *j* for *dzh*, and so on, according to the different values of the letters in German and English. With regard to the vowel sounds however his course was not so plain. As, in spite of the labours of Mr Sweet and Mr Ellis, no artificial system of phonetic representation has obtained sufficient acceptance to be really familiar to English scholars, he has resolved to retain the vowels with what may roughly be called their continental values. The alternative plan, namely to represent them by their approximate English equivalents, presented great difficulties. To take an instance: to represent the continental long *i* sound by *ee*, not to speak of its cumbrousness, labours under the additional disadvantage that the short sound must still be represented by *i*, thus obscuring the identity of the two sounds.

Again Dr Blass has in the case of the *e* and *o* sounds adopted diacritic marks to distinguish the open and closed sounds, and it therefore seemed especially desirable here to

retain simple symbols. In all cases therefore where the Greek vowels are represented by Roman letters, these must be understood to have their continental sound, that is to say roughly speaking:—

\bar{a}	must be pronounced as in <i>father</i> .
$\bar{\alpha}$	„ as in <i>man</i> .
$\bar{\iota}$	as in second syllable of <i>quinine</i> .
$\bar{\iota}$	as in first syllable of <i>quinine</i> .
\bar{e}	as in <i>fête</i> *.
\bar{e}	as in <i>ebb</i> .
\bar{o}	as in <i>note</i> *.
\bar{o}	as in <i>not</i> .
\bar{u}	as in <i>lute</i> .
\bar{u}	„ as in <i>put</i> .

The translator has already mentioned his indebtedness to the author for his kindness in reading the proof-sheets; he has also to express his gratitude to Mr R. A. Neil, Fellow of Pembroke College, for similar help.

* It ought to be remarked that these two sounds in English contain a diphthongic element which phoneticians call a *glide*—in the case of \bar{e} an *i*-glide, in the case of \bar{o} a *u*-glide—which gives them a decidedly different sound to that heard on the Continent. The nature of this difference may be suggested by saying that in the case of \bar{o} the continental sound often tends in the direction of our *aw* in *saw* etc.

June, 1890.

ADDITIONS AND CORRECTIONS.

P. 37, note 5. *δινάρια* for *Δινάρια*.

P. 47 (text) l. 12 after *λητουργία* add “*κλείς* for *κλής*” and substitute for end of sentence “in which cases even inscriptions shew *ει* and the grammarians designate *ηι* as old Attic.”

P. 52 (text) l. 12, *ἐπιτήδεος* for first *ἐπιτήδειος*.

P. 72 (text) l. 7, *υ* for *ο*.

P. 77 (text) l. 14, *a-no-si-ya* for *a-no-si-ja*.

P. 118 (text) l. 23 after *Auramazda* add *Μαζαῖος, Μαζάκης, Mazdai, Mazdak*.

SECTION 1.

The theoretical and practical sides of the subject.

THE investigation of the pronunciation of Ancient Greek may be considered from the point of view of theory and again from that of practice. In the former case its object is the phonetic value, which the Greek letters and combinations of letters had in the living ancient speech; in the latter the point under discussion is, what phonetic value are we to give to those letters and combinations in reading and teaching Ancient Greek? The answer to the question of theory will influence the answer to the question of practice; not however exclusively, for in the case of the latter appropriateness and feasibility must be taken into consideration. I intend in the present work to enter but little into the practical question. For the Germans are not in need of reform either in the case of Greek or in that of Latin in the same degree as the English, and even if they were, the welfare of Greek and Latin instruction does not depend on the abolition of this misusage and this only. Our object is contact with the spirit of classical antiquity; but for the purpose of such a contact it is by no means a hindrance to me, if I say something like *Tsītsěrō*, while the actual man called himself *Kĭkĕrō*. And there is according to my conviction nothing in our pronunciation of Greek so positively and stupidly wrong as the ordinary pronunciation of Latin *c*. If however anyone feels himself bound in the interest of what we may call a more workmanlike prosecution of classical studies to pay scrupulous regard to such things, and can in so doing guard against the reproach of straining at gnats and swallowing

camels, for such a man I have of course nothing but praise. But the attempts, constantly repeated here as well as in other countries, to introduce in practice the modern Greek pronunciation for ancient Greek, must be withstood in view of not only practical but also theoretical and scientific interests. For even the champions of the modern Greek pronunciation appeal not to a practical superiority, which it obviously does not possess, but to a supposed scientific accuracy. A short history of the whole contest from the beginning of Greek studies in the West may conveniently be introduced here.

SECTION 2.

History of the contest about the pronunciation of Ancient Greek.

The knowledge and study of ancient Greek came to the countries of the West towards the close of the Middle Ages through the medium of Byzantine scholars, who naturally brought with them and introduced their own pronunciation, that is to say that current among the Greeks of their day.

As however these studies were prosecuted more independently and thoroughly in the countries of the West, there arose against the traditional pronunciation a reaction which started with some support in the fact, that quite a different pronunciation was customary in the case of the sprinkling of Greek words in Latin, such as *ecclesia*, *ethice*, *alphabetum*. Moreover the Byzantine pronunciation deviated so widely from the writing and confused so many sounds, that it of necessity not only appeared unpractical but also called forth doubts as to its originality. Finally, many passages in ancient authors spoke so plainly for a different ulterior pronunciation, that the fact of an alteration having taken place could not by any possibility escape classical scholars. Accordingly so early as Aldus Manutius we have his little *πάρεργον*¹, which has appeared in many forms in

¹ Aldi Manutii *de vitiata vocalium et diphthongorum prolatione πάρεργον*, first printed (1512) in the appendix to the Aldino edit. of the *Ἐπιτομὴ τῶν*

print, relating to the diphthongs, η and υ , and some consonants. A short treatise on the pronunciation of all the letters was furnished by Jacobus Ceratinus¹, professor at Louvain, who died in 1530. But the most celebrated of these early combatants was the renowned Desiderius Erasmus, in a dialogue *de recta Latini Graecique sermonis pronuntiatione*², which appeared first at Basel in 1528. Although the author was pleased to clothe his subject in the facetious, or more correctly the rather insipid, dress of a dialogue between a lion and a bear, nevertheless his treatment is so thorough and comprehensive, that there can be no doubt whatever of his scientific seriousness. The fact is not altered by our knowledge that Erasmus himself continued to use the traditional pronunciation³: a reformer he certainly was not. A greater stir was made by some English scholars at Cambridge, John Cheke and Thomas Smith, moving the condign wrath of Stephen Gardiner, bishop of Winchester, at that time Chancellor of the University, whom we know in Church History also as a fierce persecutor of heretics. In 1542 he issued an edict for his University, in which e.g. it was categorically forbidden to distinguish $αι$ from ϵ , $\epsilon ι$ and $οι$ from $ι$ in pronunciation, under penalty of expulsion from the Senate, exclusion from the attainment of a degree, rustication for students, and domestic chastisement for boys. Cheke's correspondence with the Bishop on pronunciation appeared at Basel

ὀκτῶ τοῦ λόγου μερῶν by Const. Lascaris (as R. Meister shews, *z. griech. Dialektologie, Progr. Nikolaigymn.* Leipzig, 1883, p. 13), then repeated in the Cologne pirated reprint of the Erasmian Dialogue (1529), also in the *Orthographiae ratio Aldi* (published by his grandson, 1566).

¹ His proper name was Teyng, born at Hoorn in Holland, died 1530. The treatise was printed at Antwerp 1527 (vid. E. Lohmeyer, *Phon. Stud.* i. 183), reprinted in the above-mentioned Cologne piracy of Erasmus, also in *Sylloge scriptorum, qui de linguae Graecae vera et recta pronun-*

atione commentarios reliquerunt, ed. Sigeb. Havercampus, Lugd. Bat. 1736, p. 355—376. Title, *de sono litterarum, praesertim Graecarum*. It is dedicated to Erasmus, but does not make the smallest reference to his labours on this subject, so that the priority is evident.

² Reprinted 1530, pirated 1529 at Cologne (vid. supra); see further in Havercamp's *Sylloge altera scriptorum qui*, etc. (Lugd. Bat. 1740), p. 1—180.

³ S. Vossius, *Aristarch.* i. c. 28 (*Opp.* vol. ii. p. 36); Ellissen, *Göttinger Philologenversammlung* (1853), p. 108 ff.

in 1555, published by Coelius Secundus Curio¹; the Bishop uses for the most part the weapon of authority, Cheke on the other hand that of respectable learning and intelligent critical discussion. He was seconded by his friend Thomas Smith, whose missive to the Bishop is dated in the year of the edict². At this point the movement began also among the French scholars, among whom Petrus Ramus and Dionysius Lambinus³ must be mentioned as the first combatants. Before the century had closed, the victory of the Erasmians was decided in all the chief centres of classical philology. A pretty thorough exposition was written by the well-known reformer Theodor Beza, *de germana pronuntiatione Graecae linguae*⁴. He as well as Cheke was made use of in a somewhat questionable manner by the Dutchman Adolph van Metkerke (Mekerchus) in his work *de linguae graecae veteri pronuntiatione*⁵, Bruges 1565, the most complete confirmation of the Erasmian system that had been written. Finally in 1578 the famous Henr. Stephanus entered the lists in the same cause, *Apologeticus pro veteri ac germana linguae Graecae pronuntiatione*⁶. Stephanus is already able to say, that in France, England, the Netherlands and elsewhere the reformed pronunciation was eagerly learnt and practised. In this there is nothing to cause surprise; for not only had the Erasmians, on the whole, the better cause, but the opposite party were very weakly represented. Joh. Reuchlin, from whom the pronunciation of the latter takes its name in Germany, gave the impulse to it only in so far as he was the founder of Greek studies in that country; for although he used and taught the modern Greek pronunciation, he could have no object in establishing and defending it, inasmuch as he never lived to see Erasmus' treatise. Bishop Gardiner cannot be reckoned a scientific combatant; and the short treatise directed

¹ Printed in Hav. II. p. 181—468 (the Chancellor's edict p. 205—207).

² Hav. p. 469—574. According to Hav.'s Praefatio this was published in 1568 by Rob. Stephanus.

³ Both directly or indirectly victims of the massacre of St Bartholomew (1572). Their participation in the

contest on pronunciation is learnt from H. Stephanus in the work to be cited below (p. 391 f.).

⁴ Printed in Hav.'s *first Sylloge*, p. 305—352, appeared (acc. to Ellissen) 1554.

⁵ Hav. p. 1—170.

⁶ Id. p. 377—476.

against Mekerchus by the Englishman Gregory Martin¹ (died 1582) was of trifling importance. Accordingly the Erasmian pronunciation prevailed throughout the West, and the counter-efforts of Erasmus Schmidt of Wittenberg (1560—1637²) and of Joh. Rud. Wetstein of Basel (end of the 17th century³) failed to make any alteration in this result. There was now a lull in the contest, and the interest in the question waned, until the revival of grammatical studies in our century gave it new life. All our great grammarians have entered the arena either entirely or essentially on the side of the Erasmian pronunciation, e. g. G. Hermann, August Matthiae, Phil. Buttmann, R. Kühner, K. W. Krüger, G. Curtius⁴. Seyffarth and Liscovius, who published special works on the subject in 1824 and 1825 respectively⁵, affect an independent attitude towards both schools, and arrive at mixed results. About the same time the Dane S. N. J. Bloch⁶, who was refuted by his countryman R. T. F. Henrichsen in a justly valued book, was a zealous champion of the modern Greek pronunciation. The matter was next treated of in the Göttingen and in the Frankfort *Philologenversammlung* in the years 1852 and 1861, Ellissen supporting the modern Greek pronunciation and Bursian a mixture⁷.

The hottest and most persistent combatants are the Greeks

¹ In the *Syll. altera* p. 575—622.

² Id. p. 631—674.

³ *Joh. Rod. Wetstenii pro graeca et genuina linguae Graecae pronuntiatione orationes apologeticae*, editio II. Basileae 1686.

⁴ G. Curtius, *Erläuter.* p. 15 ff., and more thoroughly *Ztschr. f. d. österr. Gymn.* 1852, p. 1 ff.

⁵ Seyffarth, *de sonis litterarum gr. tum genuinis tum adoptivis*, Leipz. 1824; Karl Fr. Sal. Liscovius *über die Aussprache des Griechischen*, Leipz. 1825.

⁶ S. N. J. Bloch, *Revision der Lehre von der Ausspr. des Altgr.*, Altona and Leipz. 1826; additions in Seebode's *Archiv*, 1827 and 1829; also three Copenhagen Schul-Programme, 1829—

1831; *Zweite Beleuchtung der Matthiae'schen Kritik, die Ausspr. des Altgr. betr.*, Altona 1832. R. J. F. Henrichsen, *über die Neugriechischen oder sogen. Reuchlinische Aussprache d. Hellen. Sprache*, übersetzt von P. Friedrichsen, Parchim and Ludwigs-lust 1839.

⁷ *Verhandl. der XIII. Vers. deutscher Philologen*, Gött. 1853, p. 106—144; id. *d. xx. Vers.* Leipzig, 1863, p. 183—195. Ellissen's treatise is valuable on account of its thorough treatment both of the history of the Greek nation and the history of the contest over the pronunciation: an index of the literature of the subject is given p. 137 f. note.

themselves, who, now that the German pronunciation has been adopted even in Russia, are in fact the only people who still cherish itacism. Among them however there are not wanting enlightened investigators of language, who do not refuse to take a scientific view even of this subject.

SECTION 3.

Genuine and counterfeit Erasmian principle.

It is however worthy of remark, that the Erasmian pronunciation, in the actual form which it has taken in various countries, is by no means identical with that theoretically developed by Erasmus and his adherents. In reality the axiom which has been more or less followed is this, that the symbols and combinations of symbols are to be pronounced as the corresponding symbols in the various languages; but this is an axiom of convenience not of science. The genuine teaching of the Erasmians is on the contrary really scientific; they endeavoured, independently of the modern Greek tradition, to recover the ancient pronunciation from direct evidences, from transcripts into and out of foreign languages, and from linguistic precedents. They also, as was right and fair, called in to their help the analogy of modern languages; Erasmus heard the sound of *ai*, i.e. *a + i*, in the German *Kaiser*, that of *oi*, i.e. *o + i*, in the *moi toi soi* of certain Frenchmen, while Beza expresses the pronunciation of these words by *moae toae soae* (triphthongal), and recognizes the genuine *oi* (*o + i*) in *soin* and *besoin*. The train of thought then is this, various modes of writing such as *ι, η, υ, ει, οι, υι* cannot possibly from the beginning have stood for the same sound, but rather, when the writing was diphthongal, the pronunciation also was diphthongal, i.e. the members of the diphthong were pronounced distinctly but united into one syllable, as they are heard in numerous instances in living languages. But finally in practice only so much, as was convenient, was retained from those scholars' scientific discovery, namely the freedom from modern Greek tradition and the employment of West European analogies, the most obvious being

of course unconsciously adopted. Accordingly the Germans pronounce ζ as *ts*, οἶνους like εἴνους, both syllables of εἶναι with the same vowel sound, and call this the Erasmian pronunciation, although the ancient Erasmians required the pronunciations *ds* for ζ, ε + υ for εῦ, ε + ι for εἰ.

SECTION 4.

Relation of Sound and Writing.

However, as I have said before, I shall here disregard practice and keep to scientific discovery; for as such, and indeed as a very great discovery, I regard the achievement of Erasmus and his predecessors and followers. The theoretic and scientific significance of these researches can indeed be far more easily undervalued than overvalued. The history of Greek pronunciation is the history of that phonetic change, which took place in the language so to speak covertly, but which is on that account by no means less real and important than the alteration, which became apparent in the writing. It is indeed the case with all languages, that the writing does not keep pace with the changes of sound, but remains more or less in the lurch. Writing is ^{an} unconscious translation of sound into symbols, but, after this has been done once and originally, habit has stepped in, and one race hands on this habit to the other. Hence arises the well-known variation between pronunciation and writing in modern languages, which is nowhere greater than in English. Not that the present English orthography is the same as that under Henry the Eighth: but we should be entirely misled, if we were to estimate the deviation of the language of that period from that of the present day by the deviation in the writing. The matter is well known to and treated of by specialists¹; that however need not prevent us citing here the results of the above-mentioned treatises of Cheke, Smith and others. They transcribe Engl. *mane* μᾶν, *gate* γᾶτ; Erasmus ascribes the pro-

¹ H. Sweet, *History of English Sounds*, *Transactions of the Philol. Society*, 1873—1874, p. 461 (517).

A. Ellis on *E. English Pr.*, *ib.* extra vol. v. 1869—1870, 1869—1878, 1871, 1875.

nunciation of *a* as *ae* to the Scotch. Further, *mean* μην, *meat* μητ, *heat* ήτ, *wheat* ούητ; the η signifies the open sound, the closed sound in *me*, *bee* being called *e italicum*. The Scotch according to Erasmus pronounced this *e* as *i*. Βίτ *bite*, φιλ *file*, βι ιτ *buy it*. Γών *gone*, γò òν *go on*. Δυκ λυτ ρεβυκ *duke lute rebuke*, the long French *u*, which was also attested for *rude*, *rue*; the corresponding short sound, says Smith, is heard more frequently in central than in southern England, but would be general in *ruddy*, *bloody* (written at that time *bludy*), *muddy*. Latin *u* is heard according to them in *bow* the verb βου, *gown* γούν, *foul* φουλ; in *bow* the substantive, *bowl* etc., the sound of the Greek ων (the modern *ou*). For the diphthong *ai*, i.e. *a + i*, *way*, *pay* are cited (in these cases however in more cultivated pronunciation more of an *ei*, in Scotch and north English almost a monophthongal *ae* was heard), for *ei* *neigh*, for *au* *claw*, for *eu* *few*, *dew*. To sum up, we find, that an extraordinary alteration has taken place in the actual language, quite as great as that established for Greek by the Erasmians. French also of that period was pronounced quite differently to what it is at the present day: mute *e* had its value, the mute final consonants were perceptibly dwelt upon at all events before a pause; in *beau* Smith heard the Greek diphthong ηυ, Erasmus and Stephanus a triphthong, all three vowels being heard. So shifting is pronunciation, and so stable writing, juggling away as it does the most important changes. But the enquirer must not allow himself to be juggled with, not even to the extent of regarding what is apparent as more important owing to its transparency than that which comes to pass covertly.

But if these sound-changes are not apparent, how can we know anything at all about them and about the earlier sound-stage of Greek? I might answer at once: in the same way that we do with regard to the earlier sound-stage of English; for Greek too there is a whole series of similar evidences in ancient authors. But Erasmus was perfectly right in inferring a variety of sound from the application of various symbols, and a diphthongal pronunciation from diphthongal writing. The simple and natural rule, write as you speak, has never from the beginning been infringed without special reason. Such a reason

existed in many instances for the Romance languages in the deference paid to the Latin mother language; French modes of writing such as *corps*, *doigt*, at an earlier period also *faict* for *fait* and so on, where the penultimate consonant was always mute, could never have existed but for the Latin *corpus*, *digitus*, *factum*¹. For the *ai* in *aimer*, *faire* etc. Erasmus and Beza attest the living dialectal use of the diphthongal pronunciation in their time; *eu* is according to them universally a diphthong, = *e* + (Fr.) *u*, in like manner *au* (= *a* + *o* according to Beza); *eau* and *oi* have been already mentioned, and for the latter the original pronunciation as *o* + *i* is guaranteed by the living English *voice* from *voix* and *choice* from *choix*². Similarly English orthography, disregarding the mixture of different systems of sound-notation, has arrived at its present incongruity with the sound through deference to Latin and the permanence given by writing to sounds formerly—but now no longer—really heard. Since then the ancient Greeks were not in a position to pay deference to a previous language in a higher stage of cultivation, they must consequently have originally striven to bring their writing as near as possible to the sound. As the language underwent further development, it may well have happened both in Attic and in the other dialects that the orthography did not progress evenly; but this must have consisted much more in what was old not being entirely crowded out by what was new, than in the retention of the old to the absolute exclusion of the new. For a crystallization of orthography can only occur where the word forms have stamped themselves firmly

¹ Diez, *Gramm. d. roman. Spr.* 1³, p. 442.

² Stephanus, p. 414, ed. Haverc., makes the universal statement as regards the French: “non solum diphthongos et triphthongos, bisque longiores recte pronuntiamus; verum etiam nullam ex vocalibus devorantes, indissoluta voce plane distinguimus *beau*, *lieu*, *ioyaux*, *ioyeux*.... Quotum enim quemque Gallorum hodie reperias, qui aequo animo ferat *μονοφωνίαν* suarum diphthongorum et triphthongorum? Id est,

si una sola enunciatur, velut quaelibet ex tribus vocalibus?” Modern Provençal still retains diphthongal *ai* (*faire*, *paire*, *maire* = *père*, *mère*), *au*, *eu* (*Diéu*, *castèu* = *château*) etc. Cp. Diez, p. 429 ff., who adduces for *au* from Beza's treatise *de francicae linguae recta pronuntiatione* (1584) a somewhat discrepant testimony to the effect that the pronunciation like *ao* was Norman, the ordinary pronunciation much like *o*.

by much reading and writing; where there is but little reading and writing, as in Greece in the classical period and in western Europe in the Middle Ages, unless the sound is very stable and well defined, the orthography is extremely shifting. Now it is actually the case that in Attica towards the close of the fifth century the entire system was absolutely changed. Here was the opportunity in those cases, where the living sound had here and there deviated from the writing, to bring them again into harmony. Moreover, since the Athenians and also the other races did not yet possess any grammarians or etymologists to attach importance to a historical mode of writing, the only principle which could have weight was the phonetic. Accordingly it is actually the case that on Attic inscriptions of the fourth century the orthography is by no means established in all points: *τεῖ τιμῆι* and *τῆι τιμῆι* are written promiscuously. When in the course of time the Attic dialect extended itself beyond the boundaries of Attica, and became essentially the standard for the *κοινή* of Hellenized countries, and at the same time habits of composition and literary culture increased to an extraordinary degree, fluctuation in orthography must most certainly have become far less easy. To the Macedonians, the Egyptians, the Carians and Lydians, and also the Dorians of the Peloponnese, Attic Greek was an acquired tongue, and that in part by means of its literature, so that sound and writing impressed themselves simultaneously. We soon have to add to this the influence of the learned grammarians. However even at that period the orthography did not yet crystallize: the *ι* of the diphthongs *αι, ηι, ωι*, which had gradually disappeared in the spoken language, was in the time of Augustus consciously omitted by many in writing also, as Strabo says¹, *πολλοὶ ἐκβάλλουσι τὸ ἔθος φυσικὴν αἰτίαν οὐκ ἔχον*. In like manner, after *ει* had become attenuated to a long *ι*, although it was not given up in writing, it was applied to a new purpose, namely the regular notation of long *ι*².

¹ Strabo xiv. p. 648, speaking of the *ι* of the Dative.

² Cp. Quint. 1. 7. 15 (of the Ro-

mans): *Diutius duravit, ut ei jungendis eadem ratione qua Graeci ει uterentur (for a long ι).*



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tradition. For when, to take an example, Bursian appeals to the fundamental axiom of philological criticism, that tradition is to be regarded as correct, until its incorrectness can be demonstrated, he forgets that we have here two traditions, and that it is a not less recognized principle to prefer the older and the literary to the later and oral¹. The present sound in any language proves nothing for the earlier, although the mode of writing it may have remained the same; this testimony requires in each single case further confirmation, before it can be admitted with any certainty. And if there is an absolute incongruity of sound and writing, this forms the strongest presumption against the so-called testimony. Modern Spanish has or had a short time ago three notations for the guttural *ch*, *g* (before *e* and *i*), *j* and *x*. This is an incongruity, in so far as the sound is everywhere similar, the writing dissimilar. The writing of *g* side by side with *j* is easily explainable by the deference paid to Latin; that of *x* is stranger: why *relox* 'horologium,' *baxo* Fr. 'bas,' *Quixote*, *Xerez*, *Mexico*, *Texas*, and not from the beginning *reloj*, *bajo*, *Jerez* etc., as has been written since 1846? An explanation might perhaps be found, shewing the present value of *x* to have been the original; still there would be ample ground to justify doubts as to the original similarity of *x* on the one side and *j* and *g* on the other. For as specialists know and tell us, *x* had at all events up to the 16th century the value of French *ch*, *g* and *j* of French *j*². The writing therefore was in this case too the true witness, oral tradition the false.

There must be added however an important point, which has been emphasized by the Greek Psichari³. As a matter of course that only can pass for oral tradition and evidence, which really exists in the language of the people, not anything which may have been violently foisted on the language by the learned and cultivated out of regard for writing or some other supposed standard of accuracy. Now in the case of the Greek of to-day the genuine language falls foul of the traditional writing much

¹ *Frankfurter Philologenvers.* (1861), p. 184.

³ J. Psichari, *Rev. critique*, 1887, p. 262 ff.

² Diez, p. 371 f.

more frequently than the language of the learned. The latter it is true has in those cases, where a sound has undergone a universal transition into another, adopted the new sound, so that now this new value is actually attached to the symbol, as for instance that of *f* to *ϕ* and that of *i* to *η*; but where the new sound has appeared only under certain conditions occurring in a minority of cases, the cultivated language, clinging to the writing, frequently does not admit it. Every *e* (*αι, ε*) or *i* (*ι, υ, ει, etc.*) when followed by a vowel becomes *y* in the real spoken language: *nyos νέος, palýós παλαιός, yos υίός*; but neither the cultivated nor the Reuchlinians are willing to pronounce thus, although the latter, if they want to follow the testimony of the living language, would certainly be bound to shew their adherence in this point also. Moreover the language as now spoken tolerates neither two tenues in juxtaposition nor the combination of nasal with spirant; we must therefore force on ancient Greek the rules that *κ* and *π* are to be pronounced as (German) *ch* and *f* before *τ*, and that *ν, μ* and *γ* must be assimilated or allowed to drop out before *θ, ϕ, χ*. It is of no importance whatever in this respect that educated Greeks are careful to preserve the value of *κ* and *ν*; for that takes place not as an effect of oral tradition, which they wish to make their support, but of written tradition, which they despise. The Reuchlinian therefore ought to say *está, ochtó, niffi (nifi)* for *νύμφη* etc., and arrange everything under proper rules the number of which must certainly be very great; otherwise he transgresses at every step his own principle. Finally there is no lack of points, as regards which the testimony of oral tradition is entirely at variance, according to dialects and localities; for example with respect to the pronunciation of *κ* before *ε* and *ι* (*kye, tye, chye, che, tsye, tse = κε*), or that of *χ* after *ρ* (*k* or *ch*): where consequently as a matter of fact we have no evidence. This is all emphasized by Psichari, and the necessary inference to be drawn from it is that the Reuchlinian principle neither is nor can be carried out in practice.

SECTION 5.

Method of ascertaining the ancient pronunciation.

The matter then stands thus ; for the original sound, writing is our evidence, for the present sound (and for this only), the living representatives of the nation, and the point to be investigated is, how long the original sound has stood its ground, and when the present sound began. This investigation must be carried on separately for every single sound, for the results may be very various. The sum of these is a piece of sound-history of the Greek language, to be supplemented from the alterations which become apparent in the writing, which latter however belong more to the prehistoric than the historic period. Looking at it in this light we first see the whole of the significance of the subject, and, it must be confessed, the whole of its difficulty. It is true the general rule, by which to decide, whether a sound at a given time retained its original value or had already passed into another, may simply be taken over from allied fields of enquiry. E.g. the fact that French *en* in the golden age of old French literature was identical with *an*, is inferred among other proofs from its confusion with *an* which already took place at that period¹; conversely if such a confusion did not appear, it would be concluded with equal certainty that *en* still had the *e* sound. If then in like manner we say with regard to the Greek *αι*; it was in the Attic period a real double sound, since it is exchanged neither with η nor with ϵ ; this is a mode of reasoning, the justness of which no one would impeach in the domain of any other language. In fact it is quite clear that, if *αι* was identical with ϵ and also η , even in the case of a much more learned people than the ancient Athenians some confusion in writing would infallibly have occurred, especially during the course of so many centuries. We have only to notice in comparison, how shifting and uncertain the Latin writing is in the period of the Republic in spite of the exertions made by the grammarians from an early date to regulate it. Even if we suppose that *αι* was an *e très*

¹ Lücking, *d. ältesten franz. Mundarten*, p. 106 ff.

ouvert, while η was an ordinary open e , such a trifling difference as that would not long have been adequate to hinder confusion. This then is the first and most general method: investigate up to what period the writing is constant and when it begins to be no longer so. Next we have direct information and descriptions in the works of the grammarians, and can also draw inferences indirectly from the grammatical nomenclature and classifications of sounds, from directions as to orthography and so on. Further phonetic transitions within the word and especially in the combination of words have weight; for if ἐπὶ $\hat{\omega}$ becomes ἐφ' $\hat{\omega}$, and καὶ ἔστι becomes κᾶστι, this teaches us something about the value of ϕ and $\alpha\iota$, since this fact is utterly irreconcilable with certain values of these symbols. Of great importance too are transcriptions from and into other languages, and here Latin is of primary value for Greek, just as Greek is for Latin. Κέλρες Κικέρων, *Cimon Cyrus*, are in themselves adequate evidence for the fact, which is established by other considerations, that Latin c was always k in the classical language; for no one can doubt that this was the value of κ ¹. In like manner transcriptions such as *Athenae, ecclesia, κῆνσος, Λουκρήτιος* are alone sufficient proof that η was equivalent to \bar{e} ; for that Latin e was not equivalent to i is doubted by none except those who have given their verdict after having bowed their necks once for all to modern Greek authority. Such people are doubtless skilled to throw doubt on that which is most firmly established, and give a plausible appearance to that which is most questionable, according as it falls foul of or is at harmony with this authority². Much light can be obtained for Greek from

¹ It is true that in the 16th century the point was not considered to be settled; Bishop Gardiner prescribes: in k et g quoties cum diphthongis aut vocalibus sonos i aut e referentibus consonantur, quoniam a doctis etiamnum in usu variantur, aliis densiorem aliis tenuiorem sonum affingentibus, utriusque pronuntiationis modum discito, ne aut horum aut illorum aures offendas...; caeterum qui in his sonus a

pluribus receptus est, illum frequentato.

² Ellissen, p. 136: "we do not know how the Romans pronounced e ; we do know however, that in the Romance daughter-languages an i has been developed out of it in numberless words" (*Diez*, 1³, 150 f. states that the transition of e to i is common to the Romance languages but not usual outside France).

oriental languages also, for instance from Coptic. Lastly the plays on words depending on similarity of sound (analogous to rime, which in the case of Mediæval languages is certainly a far more excellent resource), also etymologies in ancient writers, imitations of the cries of animals and so on must be laid under contribution for information. This last expedient, especially the $\beta\eta\ \beta\eta$ of Kratinus, furnishes a Reuchlinian like Ellissen with a handle for cheap witticism making it appear as though the contest about η was merely a contest to decide the competence of a wether as witness for the pronunciation of a Plato and a Demosthenes; with these and similar turns of speech he can wriggle successfully out of the quite unimpeachable evidence, which is contained in this representation of the cries of animals¹. I mention this here, as I have no inclination after this to enter the lists at all with opponents, who substitute dogma for enquiry; they will not submit to refutation, and we can only take leave of them with the words recommended by the ancient Euænus for such combatants, $\sigma\omicron\iota\ \mu\grave{\epsilon}\nu\ \tau\alpha\upsilon\tau\alpha\ \delta\omicron\kappa\omicron\upsilon\upsilon\upsilon\tau\prime\ \epsilon\acute{\sigma}\tau\omega,\ \epsilon\grave{\mu}\omicron\iota\ \delta\grave{\epsilon}\ \tau\acute{\alpha}\delta\epsilon$. They are fortunately not too numerous among us.

SECTION 6.

Degree of accuracy attainable.

If then all these expedients and especially the deviations of writing in the inscriptions and papyri, which have become so numerous in our time, are made use of in a critical and unbiassed manner, satisfactory results can certainly be obtained, provided that we do not look for too much. For neither can precise limits of time be given for the transitions, nor can these themselves and the original sound be denoted with mathematical precision. We find Cheke insisting that these things must be treated rather $\epsilon\grave{\nu}\ \pi\lambda\acute{\alpha}\tau\epsilon\iota$ than $\pi\rho\acute{\omicron}\varsigma\ \acute{\alpha}\kappa\rho\acute{\iota}\beta\epsilon\iota\alpha\nu$; in fact every science has its own degree of precision attainable. For instance it is certainly not sufficiently precise, if I give the

¹ Cp. on this proof as well as on other methods of proof the meritorious

exposition of K. Zacher: *die Aussprache des Griech.*, Leipzig, 1888.

sound of η as e ; for there are two sorts of e 's, the open and the closed. If however I say η was the open e , I ought not to be asked further, which open e ? although, as is well known, the French distinguish three sub-varieties in their language: an ordinary open e , a more open, and a very open one. This is by no means a matter of indifference for harmony and correctness of pronunciation: but no one can expect to know anything about such subtleties in the case of a dead language. Lastly there are not merely three open e 's, but a numberless series, and the same holds good with regard to the other sounds and combinations of sounds; for instance a diphthong can be spoken with greater or less preponderance of one or the other vowel, without regard to the possible variety in the single elements. I am perfectly convinced, that, if an ancient Athenian were to rise from his grave and hear one of us speak Greek, on the basis of the best scientific enquiry and with the most delicate and practised organs, he would think the pronunciation horribly barbarous. But if he heard a modern Greek, he would not indeed be so loud in his censure, simply because he failed to observe that this is supposed to be his own language. For where, not to mention all the other points of difference, acute and circumflex are not differentiated, and every accented vowel is pronounced long, every unaccented vowel short (e.g. $\gamma\acute{\epsilon}\nu\omicron\iota\tau\omicron$ $y\grave{e}n\grave{i}t\omicron$), there the language has suffered a change affecting its very essence and something absolutely new has been developed out of the old. Nor would the ancient Athenian think the language especially agreeable to the ear, I mean ancient Greek in the mouth of the modern Greek. His taste would probably coincide with that of Dionysius of Halicarnassus and Hermogenes, who both declare ι to be of all vowels the least agreeable to the ear and the most wanting in dignity¹. But in ancient Greek, spoken according to the fashion of the modern Greek, this vowel has an unnatural preponderance. Finally, if a German came with his Reuchlinian pronunciation, observing quantities with pedantic care, the ancient Athenian would probably stop his ears at such disfigurement of

¹ Dionys. π. συνθέσ. p. 77 R. (ἔσχατον δὲ πάντων τὸ ι); Hermog. π. ιδ.

p. 225 W. 291 Sp. (τὸ ι ἥκιστα σεμνὴν ποιεῖ τὴν λέξιν πλεονάσαν).

his language (if indeed he recognized it as such) and at such discordant sounds. For who (to take an instance from Herodotus) would put up with *tīs alīthūīs τῆς ἀληθείης*, *tīs iyīūs τῆς ὑγείης* and all the similar monstrosities, such as never appear in any real language? The ancient Greeks, as soon as *ει* became simple *ī*, no longer said *ύγεία* but *ύγεία*, and in like manner *ταμείον* for *ταμιείον*, *πεῖν* for *πιεῖν*, just as at an earlier date *πόλι* was contracted to *πόλι*, *Δί* in many cases to *Δί*. However we are at liberty by all means to pronounce as we please; we are perfectly secure against the censure of the hypothetical ancient Athenian, and this fiction only illustrates the fact, that we can attain perfect accuracy neither in practical pronunciation nor in theory.

After this rather long introduction I reach my subject, and first in order the history of the vowels and diphthongs.

I. VOWELS AND DIPHTHONGS.

SECTION 7.

System of Vowels.

The relation of the vowels to one another is excellently illustrated by modern authorities, for instance R. Lepsius¹, by the well-known triangle, having at its corners *a* *i* and *u*. Between *a* and *i* come the two *e*'s, the open (French *è é*, Lepsius' *e*) nearer to *a*, the closed (French *é*, Lepsius' *e*) nearer to *i*. Both *e*'s are found both long and short; the German language however wants the short closed *e*, which must be sought in the short *i* of certain dialects. In like manner between *a* and *u* come two *o*'s, an open and a closed (*o* and *o*); these also occur in French: open in *encore*, closed in *anneau*, *dos*; they are however distinguished by no diacritic mark.

¹ R. Lepsius, *Standard Alphabet* (2nd ed. London and Berlin, 1863). I see the less reason for exchanging this triangle for the vowel line which has

lately won favour, since in Greek its end-*u*-has changed back again to the beginning-*i*-.



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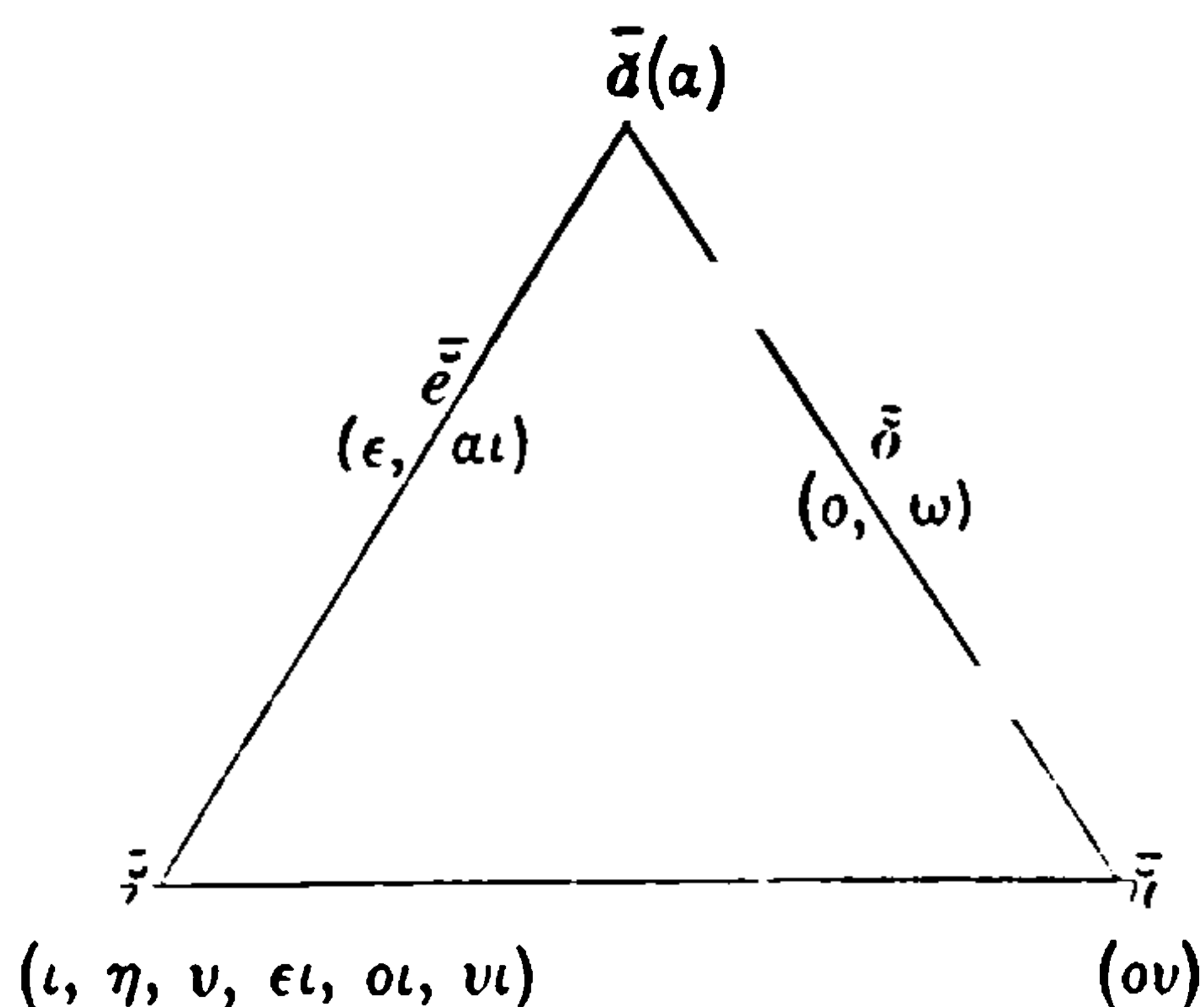
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has evidently been the guide; but the point to be investigated is, how the writing has assumed this form. The names of the vowels were: ἄλφα, εἶ, ἦτα, ἰῶτα, οὐ, υ̇, ῶ. The use of ε̇ ψιλόν and υ̇ ψιλόν, i.e. 'simple e', 'simple u', as names ought in reason to be dropped; for when the Byzantines say e.g. τὸ παῖδες κατὰ τὴν παραλήγουσαν διὰ τῆς αἰ διφθόγγου (γράφεται), τὸ δὲ πέδαι διὰ τοῦ ε ψιλοῦ, they do not mean the adjective to be understood as part of the name of the symbol. 'Simple ε' is contrasted with the diphthongal writing αἰ, 'simple υ' with οἰ, as these pairs in Byzantine times coincided in sound, and we find the expressions κυ ψιλόν, φυ ψιλόν, contrasted with the writings κοἰ, φοἰ. The case is not far otherwise with the definitions ὀ μικρόν, ῶ μέγα, additions which were about as necessary to the Byzantines, with whom these two vowels had the same sound, as the definitions, "hard T (D)", "soft D (T)", to the Saxons¹. Should the names εἶ, οὐ not be permissible as liable to be misunderstood, it is at any rate better to say with the later grammarians ě, ǝ (ě, ǝ)². But the origin of these old names, which do not tally with the pronunciation, will have to be investigated. In the Greek of the present day the vowel-system has developed in the following way:—



In this complete incongruity between sound and writing we see a clear indication of the transformation which has taken place in the former since classical times. The e is in modern Greek

¹ The definitions ε̇ ψιλόν, υ̇ ψιλόν have been disposed of by Karl Ernst Aug. Schmidt, *Ztschr. f. Gymn. Wesen* 1851 p. 433 ff.; *Beiträge zur Geschichte d. Grammatik des Griech. u. Lat.* (Halle

1859) p. 64 ff. As names of symbols they are only found in the grammarian of the *Etym. Gud.* and in Chrysoloras.

² For the evidence see ib. p. 62 ff.

in general open, especially in accented and long syllables¹; *o* also tends that way, but less decidedly. The *ü* sound of *υ* is heard even now according to many authorities sometimes before *r* (*ἄχυρα achüra, τυρί* i.e. *τυρός türí*)²; the fact of an *η* appearing as *e* *ε* before *r* in unaccented syllables (*ξερός, θερί* for *θηρίον* etc.) is not due to a retention of the ancient sound, but to a modern phonetic law, according to which every unaccented *ir* (*ιρ, ηρ, υρ*) becomes *er*, as *keryaki κυριακή*³. But, that the *i* sound has elsewhere in modern Greek different shades of tone according to its origin, is, according to competent authorities pure invention⁴, in spite of the assertion of Reuchlinians.

SECTION 8.

System of Diphthongs.

We find in ancient Greek side by side with the vowels and having a like function of syllable-formation a large series of diphthongs, close combinations of pairs of vowels, of which the last is always either *ι* or *υ*. Since these two can be combined with all the other vowels, short as well as long, and *ι* also with *υ* as first element, theoretically we have in all fourteen diphthongs; these however are not all distinguished in writing, nor indeed can they all be proved even to have had an actual existence⁵:

<i>αι</i> (<i>ἄγοραί</i>)	<i>αυ</i> (<i>παύω</i>)
<i>āι</i> (<i>ἄγορāι</i>)	<i>āυ</i> (<i>γραῦς</i> ion. <i>γρηῦς</i> ?)
<i>ει</i> (<i>λείπω</i>)	<i>ευ</i> (<i>εῦ</i>)
<i>ηι</i> (<i>τιμῆι</i>)	<i>ηυ</i> (<i>ἠῦλουν</i>)
<i>οι</i> (<i>οῖνος</i>)	<i>ου</i> (<i>οῦτος</i>)
<i>ωι</i> (<i>ὄδῶι</i>)	<i>ωυ</i> (ion. dor. <i>ωῦτός</i> = <i>ὄ αῦτός</i>)
<i>υι</i> (<i>νέκυι</i>)	
<i>ūι</i> (<i>θυιάς</i> ?)	

¹ K. Foy, *Lautsystem d. griech. Vulgärspr.*, Leipzig, 1879, p. 84.

² id. p. 86.

³ Psichari *Revue Crit.* 1887, p. 266.

⁴ Foy, p. 84.

⁵ The theory of the 14 vowels is developed by G. Hermann *de emend. rat. Gr. gr.* p. 49 ff.

The oldest theory preserved, that of Dionysius Thrax, numbers only six of these, *αι, αυ, ει, ευ, οι, ου*; later writers go as far as eleven or twelve; we nowhere find more than one *υι* and one *αυ* distinguished. According to one distribution¹ they fall into two classes *κύριαι δίφθ.* and *καταχρηστικάι*; the former are those named diphthongs by Dionysius, that is those with a short vowel for their first member with the exception of *υι*. The reason, why these were called proper and the others improper diphthongs, must rest in the idea, that *ἡ δίφθογγος*, scil. *φωνή*², is properly a more or less simple sound, which however consists of two elements; *γι, ου, ευ* do not weld together into such a simple sound. For this very reason these three diphthongs are called according to another classification³ *δίφθ. κατὰ διέξοδον*, i.e. those in which the voice passes successively through both vowel sounds. The second class in this classification are the diphthongs *κατ' ἐπικράτειαν*, where the one sound prevails over the other and makes it imperceptible: *αι = ā, ηι = ē, ωι = ō, ει = ī*. Lastly come the diphthongs *κατὰ κράσιν*, namely those with actual fusion, *αυ ευ ου*; for the later grammarians, by whom this doctrine is handed down to us, would leave *αι* and *οι* altogether out of their classification, in order thereby to explain their different value in respect of word-accentuation. Since however this distribution was certainly not originally invented with this purpose in view, *αι* and *οι* also must originally have belonged to the third class⁴. It

¹ Theodos. *Gramm.* p. 35.

² I do not know, what else except *φωνή* (or *συλλαβή*?) it is possible to supply; *φωνή* (*φθόγγος*) is vowel-sound as opposed to the *ψόφοι*, consonants (Aristoxenus in *Dion. Hal. π. συνθ.* p. 72 R.). The doctrine of the diphthongs will at any rate go back as far as Aristoxenus in its main features, perhaps even farther. For according to Plato (*Kratyl.* 424 c; *Hipp. Maj.* 285 c, b) in his time both *οἱ ἐπιχειροῦντες τοῖς ῥυθμοῖς* and the sophist Hippias busied themselves with the doctrine of letters and syllables, in which pursuit they must inevitably

have come upon the idea of a diphthong (two vowels in one syllable).

³ Theodos. p. 34 f., Chæroboskos *B. A.* III. p. 1214 f., Schol. *Dion. Thr. id.* II. p. 804, Moschopulos p. 24. In Chær. *ει* is entirely left out. The diphthongs *κατὰ διέξ.* are defined (Chær.): *χωρὶς ἀκούεται ὁ φθόγγος τοῦ ἐνὸς φωνήεντος*; those *κατὰ κράσιν*: *συγκρινῶσιν ἑαυτὰ τὰ δύο φωνήεντα καὶ ἀποτελοῦσι μίαν φωνήν ἀρμόζουσιν τοῖς δύο φωνήεσιν*.

⁴ Cp. the introductory words, *αὗται τολύνη αἱ ἑνδεκα δίφθ. ἀνεμερίσαντο ἑαυτὰς καὶ ἐγένοντο κατὰ τρόπους τρεῖς*. The division *B. A.* II. p. 803, into *εἰφωνοὶ*

must also be mentioned, that Sextus Empiricus¹ quotes from 'certain philosophers' the statement, that there are other elementary sounds, different from those usually taught, for instance *αι, ου* and all similar sounds. For these sounds are, according to their statement, unlike a syllable such as *ρα*, the same from the beginning to the end of their duration, and this is the characteristic of an element. He afterwards mentions *ει* also as belonging to this class, which indeed will coincide with the six diphthongs of Dionysius and with the diphthongs *κατὰ κράσιν* according to the original numeration, to which therefore *αι* and *ει* also belonged. More discrepant, than at first appears, is the distribution of the musician Aristeides²: *κατὰ κράσιν, κατὰ συμπλοκήν, κατ' ἐπικράτειαν*; of the diphthongs *κατὰ συμπλοκήν* he says, that coming at the end of a word they are less easily shortened before a following vowel than the others, since the tone is stronger owing to the clear pronunciation of both vowels. Now since *ηυ ωυ υι* scarcely ever occur at the end of words, we must understand this to refer to *ευ* and *αυ* (*αὺ, εὺ, Ζεὺ* etc.), and the corrupt statement about these diphthongs *τῶν κατὰ συμπλ., λέγω δὲ τῶν διὰ τοῦ* (a poor variant *δι' αὐτῶν*) *συντιθεμένων*, must be emended by the repetition of a letter, *διὰ τοῦ <υ>*. The class *κατὰ κράσιν* would thus be limited to *αι, ει, οι*, except in so far as *ει*, having already become long *ι*, had now to be counted in the class *κατ' ἐπικράτειαν*. The expressions *κατὰ*

(the six of Dionys.), *κακόφωνοι* (*ηυ ωυ υι*) and *ἄφωνοι* (*α η ϖ*) I pass over as having no importance by the side of the other.

¹ Sext. Emp. *adv. mathem.* p. 625 Bk.: *καὶ ἀναστρόφως ἔσεσθαι τινὰ φασιν ἔνιοι τῶν φιλοσόφων πλείονα στοιχεῖα, διάφορον ἔχοντα δύναμιν τῶν συνήθως παραδιδόμενων, οἷον καὶ τὸ αἰ καὶ τὸ ου καὶ πᾶν ὃ τῆς ὁμοίας ἐστὶ φύσεως.—ἐπεὶ οὖν ὁ τοῦ αἰ καὶ εἰ φθόγγος ἀπλοῦς ἐστὶ καὶ μονοειδής, ἔσται καὶ ταῦτα στοιχεῖα.* Afterwards 626 after a discussion on *αι*:—*τούτου δὲ οὕτως ἔχοντος, ἐπεὶ καὶ ὁ τοῦ εἰ φθόγγος καὶ ὁ τοῦ ου μονοειδής καὶ ἀσύνθετος καὶ ἀμετάβολος λαμβάνεται,*

ἔσται καὶ οὗτος στοιχεῖον. If then in the time of Sextus (about 200 A.D.) *αι* was pronounced ever so decidedly as *ä*, we get no *new element* out of this or out of *ει=ι*. Accordingly the philosophers referred to in the sentence, in whose time *ει* was still a diphthong, must be earlier.

² Arist. Quintil. p. 44 Meibom. (p. 29 Jahn) (*αἱ δίφθογγοι, ἃς ἦτοι κατὰ κράσιν ἢ κατὰ συμπλοκήν <ῆ> κατ' ἐπικράτειαν γίνεσθαι φάμεν*). Afterwards p. 46, *εὐτονωτέρους γὰρ αὐταὶ ποιοῦνται τοὺς ἤχους, ἀμφοτέρα φανερώς ἐκβοῶσαι τὰ φωνήεντα.*

κρᾶσις and *κατὰ συμπλοκὴν* are a marvellously happy definition of the distinction intended; for in proper diphthongs, as Rumpelt says¹, the voice sounds during the movement from one vowel-position to the other and only during this movement, so that an actual 'mixture' takes place as between water and wine; in improper diphthongs on the other hand the relation of the sounds one to the other is an 'interweaving'. We are unfortunately not in a position, with the means at our command, to follow up to its sources with any certainty the ancient theory of diphthongs.

SECTION 9.

E and O sounds, their oldest development and representation.

As regards the value of these vowels and diphthongs, since *a* admits of no doubt whatever, we will begin our investigation with a discussion of the E and O sounds. Originally, and in most local alphabets up to the year 400, every *e* was written with E, every *o* with O². The Greeks of the East however, and especially the Ionians of Asia Minor, at a very early period employed the symbol H, Phoenician Cheth, properly used to signify the rough breathing, as a vowel-symbol for a particular kind of *e*. This was in fact very readily done in Asiatic Ionia where the breathing was lost; the symbol in consequence of this was now called ἦτα instead of Cheth ἥτα, and began with this vowel, exactly as ἄλφα with *a*. At a somewhat later time, about the sixth century, various attempts appear in various localities, to distinguish the corresponding O sounds by the introduction of a new symbol. The symbol O was differentiated by leaving the circle open (C), or by a point in it (⊙), or by leaving it open below and annexing two feet (Ω); this last form ultimately prevailed, and was applied in the manner adopted by the Ionians of Asia, according to which the new symbol corre-

¹ Rumpelt *d. natürliche System des Sprachlaute* p. 47.

² For facts of epigraphy I refer the

reader once for all to the classical book of A. Kirchhoff: *Studien zur Geschichte des griechischen Alphabets*.

sponded to H, the old symbol O to E¹. But that, which was so carefully distinguished in the cases of *e* and *o*, was by no means, as has been assumed since the days of Greek grammarians, the quantity. For, although H almost never and the corresponding O symbol in no instance whatever represents a short sound, E and O are as late as the fourth century used for long sounds, for those namely, which in the developed orthography are written diphthongally *ει* and *ου* respectively, without however being really by origin diphthongs arising from $\epsilon + \iota$, $o + \upsilon$ respectively. In *λείπω* and *γένει* the *ι* is radical, as is also the *υ* in *οὐ* and *οὔτος*; on the other hand in *ἔσπειλα*, *στέλλειν*, *τιθείς*, *φιλεῖτε* the *ει* is merely lengthened *e*, and in *βουλή*, *διδούς*, *μισθοῦτε*, *λόγου* the *ου* lengthened *o*. On the one hand, therefore, the Greeks distinguished ϵ and *o* together with their lengthened forms, and on the other the sounds η and ω which were always or almost always long, and furthermore it never occurred to anyone in ancient Hellas to distinguish in script \check{a} and \bar{a} , \check{i} and \bar{i} , \check{u} and \bar{u} , the natural way to do which would have been to double the vowel, just as the consonants were written doubled for similar reasons. Consequently the distinction between H and E, Ω and O was originally one of quality², and the only qualitative distinction which can have been intended is that which the Italians make prominent both in pronunciation and in grammatical writing in the case of these two vowels and only these, namely the distinction between open and closed *e* and *o*. The quantitative distinction came to pass accidentally and secondarily, after ϵ and *o* had been distinguished from their lengthened equivalents by the diphthongal writing of the latter, and it became the more obvious and finally as early as Aristotle³ the only distinction recognized. But which *e* did the ancient Ionians intend to represent by H, and which *o* by Ω , the open or the closed? On this point the old inscriptions of Keos Naxos and perhaps

¹ In Paros, Thasos, Siphnos conversely Ω was written for *o* (*ου*), O for ω : $\Sigma\Omega\text{I}$ *σολ*, $\text{T}\Omega$ *τοῦ*, $\text{T}\Omega\text{N}$ *τῶν*, see Kirchhoff p. 65 ff.

² This was first explicitly stated, though not with the necessary general

application, by Dittenberger on the subject of the old Naxian and Kean inscriptions (*Zum Vocalismus des ionischen Dialekts*, *Hermes* xv., 225 ff.).

³ See Arist. *Poët.* c. 21.

Amorgos also are especially instructive; in them H and E only partially coincide with ordinary H and E¹. For there H is only written for that *e*, which corresponds to old Greek (Doric) \bar{a} , and also that arising from contraction of ϵa : ΟΙΚΗΗ, ΔΗΜΟΣ, ΕΠΗΗ, ΘΥΗ, (τὰ θύεα from τὸ θύος)²; the η on the other hand which is common to the Greek dialects together with ε and \bar{e} is denoted by E, without admixture of diphthongal writing³: ΜΕ μή, ΕΠΙΒΛΕΜΑ ἐπίβλημα, ΦΕΡΕΝ φέρειν, ΕΝΑΙ εἶναι. The Naxians represent the short sounds also with H, if they have arisen from long \bar{a} ; ΔΗΜΟΔΙΚΗΟ Δημοδίκεω, ΑΛΗΟΝ ἀλλέων⁴; in Keos ε is written in these cases. If then in these dialects that sound is written with H, which elsewhere has the value of *a*, and previously had that value universally, we must give to H the value of open *e*, that is, the *e* which stands nearer to *a*, and to E that of closed *e*, that is, the *e* which stands nearer to *i*, especially as this corresponds to the writing EI cur-

¹ Cp. Dittenb. l. c.; *Mitth. des archæol. Instit.* i. 139 ff., (Keos U. Köhler) = Röhl, *Inscr. Gr. antiquissimæ* no. 395 ff.; *Bulletin de correspondance Hellénique*, iii. 1 ff. (Bustrophedon Inscr. on the offering of a Naxian woman) = Röhl 407; Bechtel 23, *Bull.* vi. 187, *Mittheil.* xi. 97 (Amorgos); Bechtel, 29 ff.; Kirchhoff⁴ 32.

² The two last examples on line 17 of the longer Kean inscr. (derived from a correction on the stone); in the same place occur also διαρανθῆι and line 23 θάνηι; thus in the diphthong $\bar{e}i$ (24 ἐξευιχθεῖ) a mixture of the two E sounds appears. But this occurs in Attic also and elsewhere: TEI for τῆ side by side with THI. Dittenberger's endeavours on this head are in my opinion misplaced. Röhl's restoration TH[λοῦ στὰ]NTA l. 16 I consider wrong on the score of meaning; for a lustration of the interior of the house (διαρραίνειν) cannot be accomplished from a distance. The Naxian Inscr. offers only one stumbling block ΗΚΗΒΟΛΟΙ ἐκηβύλω, which D. is certainly right in ex-

plaining as a graver's error for ΗΕΚΗΒ.; for H here still keeps the value of the breathing as well as the other. On the Naxian bronze published by Frankel *Arch. Z.* 1879, 84 ff. (= Röhl 408) we find ΕΚΗΒΟΛΟΙ. I may here remark, that Merzdorf (*Curtius Stud.* ix. 202 ff.) tries to prove a double value of H in ordinary Ionic: from λαός, λῆός (open *e*) came λεός; from βασιλῆος on the other hand (*e* original and closed) βασιλέος. πόλεως however occurs twice on the tolerably old inscr. of Chios; Cauer no. 133, Röhl no. 381, Bechtel 174, cp. id. p. 107.

³ But in C. I. Gr. 2363 b, Bechtel 44 (Keos) ΕΙΣ occurs twice in proper names of the 3rd declens. alongside ΕΣ (according to the earlier copies, while the later shew lacunæ in the places in question).

⁴ Comp. πόληας in verse, Abdera Röhl 349, Bechtel 162. ΗΠΡΟΝ Thasos Röhl *Imag.* 52, no. 4 is explained by Bechtel (*Ion. Inscr.* 56) as a mistake for ΗΠΡ., since ἱρός is found elsewhere in Thasos.



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but *εα* readily gives *ε̄*, standing as it does midway between the two. The same follows for Doric from the contraction of *αε* to *η*: *νικῆν, τῆμά* i.e. *τὰ ἐμά*. In fact for dialectal *η* in general we must everywhere assume the same sound of open *ε̄*, and accordingly the following history of the E sound for Greek becomes evident¹. The short *e* had at that prehistoric time, when forms such as *ποιῆσαι πατήρ ἥσθιον* arose, still an open sound; for the lengthening gave *η ε̄*. This open sound may have been retained in those dialects, which in later formations also, such as contractions, keep *η* as lengthened equivalent of *ε*, that is in Arkadian Elean Lakonian Lesbian etc. The Dorian dialects coming under this category having *ῆχον* for *εῖχον, ἐφιλήτο, ῆς*, are united by Ahrens under the name of the stricter Dorism. These then, and the Lesbian etc., had everywhere only one sort of *e*, the open, at least in the long sound, for the short may indeed subsequently have had the same development in these too, which it had long before elsewhere. In the milder Dorism, in Bœotian, Thessalian, and Ionic, *ε* became at an early period *ε̄*, hence its lengthened equivalent *ει*. Further the old long sound as in *πατήρ* remained in most dialects open; but among the Ionic Keans and Naxians and also in Bœotia and Thessaly it got the closed sound: ΜΗΤΕΡ *mētēr* (Keos), ΜΑΤΕΡ and from the fourth century onwards ΜΑΤΕΙΡ in Bœotia and Thessaly. In the last two dialects therefore there was also only one kind of *e*, that is the closed, except in so far as an open *e* had been newly developed out of *αι*. Lastly the special Ionic *η* was everywhere *ε̄*. The case is partly analogous, partly different, with respect to the *ο* sounds. Since *ω* was open, *ο* must have been so too at the time when the nominative *-ων* arose from *-οντ* and the augment *ω* from *ο*; the open sound maintained its ground still longer in those dialects, which made *λόγως* out of *λόγους* and *λόγω* out of *λόγος*, that is, roughly speaking, the same, which shew *η* for *ει*, and also Bœotian. In the rest *ο* became at an early period *ο̄*, hence the lengthening *ου*. Finally the original long sound as in *λέων* remained open everywhere except in Thessalian, where it was represented by *ου*.

¹ I follow here the excellent essay *Sprache, Kuhn's Zeitschr.* xiv. p. 48 ff. of Dietrich, *Zum Vocalismus der griech.*

SECTION 10.

EI and OΥ from E and O.

I have intentionally deferred to this point the important question, what the sounds are, which are represented by EI = ē and OΥ = ō. First of all there is no doubt on this point, that the real ει as in λείπω and the real ου as in οὔτος were originally the diphthongs εῖ (more accurately εῖ) and ου (more accurately ου); with these diphthongs at a later period, lengthened ε and ο are universally confounded in writing, and were so, in many places, even at an early period. This levelling took place earliest in Corinth and its colonies, in the sixth century or even earlier. By the Corinthians the local symbol β was employed for ε and η, the ordinary E for ē and ει: ΔFENIA (real ει) Δεινίου, ΠΟΤΕΔΑΝ (do.) Ποτειδάν, ΚΛΕΤΟΛΑΣ Κλειτόλας, but ΞΒΝΟΚΛΒΣ Ξενοκλής¹. In Corcyra β is the only form, and both εῖ's are written diphthongally². In both places and also in the Sicilian colonies of Corinth spurious ου is denoted by OΥ, while O serves for ο and ω³. This OΥ is found also instead of Υ in the diphthong ευ: Ἄχιλλεούς on a Corinthian vase⁴; correspondingly Corinthian E = ει as second element of the diphthong αι: ΑΘΑΝΑΕΑ Ἀθαναεῖα Ἀθαναία⁵. All these forms of writing are not perfectly constant; for example here and there the Corinthians resolve their E into βΣ (εῖ), as ΠΟΤΒΣΔΑΝ, once we find even Ἄμφιτρίτα written with E εῖ in the penultimate

¹ Kirchhoff, p. 88 ff.; Röhl *Inscr. Gr. antiqu.* no. 15, 20, 16, 23. As a rule I intentionally refrain from giving the epigraphic forms of the symbols. That Δεινίας has the real εῖ is shewn by the fact that archaic inscriptions everywhere else write EI in names derived from δεινός: Δεινοδίκη and Δεινομένεος Bustrophedon *Inscr.* Naxos; Δεινομένεος Hiero's helmet, Röhl 510; Δεινα-

γόρης Naxos R. 408; ΔΕΙΝΟ Melos R. 433; Δεινίας C. I. A. i. 299, 433, 447, 483.

² Epitaph of Menekrates (Röhl 342) εἰποίει. Epitaph of Xenares (R. no. 344) Μείξιος (real εῖ) εἰμ'.

³ Kirchhoff⁴, no. 104 f.

⁴ Collitz *Dial. Inscr.* 3122 (*Annali dell' Inst.* 1862, 56 ff.).

⁵ Röhl no. 20, 4 comp. 5.

syllable¹. From all this it is quite clear, that the lengthened equivalents of ϵ and o had become so near to i and u respectively, that a need was felt of differentiating the real and spurious e , and in like manner the real and spurious o , while on the other hand no such need was felt of separating original diphthongal $\epsilon\iota$ and $o\nu$ from the newly developed mixed sound. The mixed sound was thought to be heard in diphthongs such as $a\iota$ and $\epsilon\nu$ also, and a corresponding mode of writing was adopted. This sound might be represented by e^i ϵ^i , o^u o^u ; the 'i pingue' of Lucilius, which he wrote ei (*puerei* nom. plur.), will be nothing else but the Corinthian E. For the other Doric dialects our material is not at present adequate; but the diphthongal writing of $\epsilon\iota$ and $o\nu$ is to be found on one of the Lokrian bronzes of the fifth century². The old Ionic and Attic inscriptions nowhere or almost nowhere shew E for real EI³, but at a very early period EI for $\bar{\epsilon}$ ⁴, although the Athenians in particular in by far the larger number of cases do not separate ϵ and $\bar{\epsilon}$ in script. We must here state our opinion: the sound which is constant in writing, that is real $\epsilon\iota$, was constant also in pronunciation; that which was shifting in writing was shifting also in

¹ On the Corinth. clay tablets, published by Röhl under no. 20, Ποτειδάνι is written 26 times with E, 4 times with ΒΣ (once also ΠΟΤΒ...), twice with Β=ε, twice with Σ=ι, and once with ΕΣ=ει. The last three forms are rightly considered by Kirchhoff⁴, 103 (note) as errors (omission); in fact ΠΟΤ<E>δάν, 'Αθ<ά>να etc. are also found. We have a certain example of O=ου in ΑΤΤΟ Röhl no. 329 (Anaktorion according to Kirchhoff).

² Cauer, Del² no. 229; Röhl no. 321; Kirchhoff p. 146; v. Wilamowitz *Ztschr. f. Gymn.-Wesen*. 1877, 642.

³ For Attic see Cauer (in *Curtius Stud.* viii. 231); he produces as examples of E=real ει only ΟΛΕΖΟΝ (so C. I. A. i. 37 (9 ??); iv. 53^a, with ΟΛΕΙΖΟΝ 1 B 33; iv. 27^b 18. There are found besides ΠΕΣΙΔΟΣ *Πεσιδος* C. I. A. iv. 373^a; ΕΧΣΑΛΕΨΑΤΟ? do. 53^a 22; also

(Kretschmer *Ztschr. f. vgl. Sprachf.* N. F. ix. 154) ΗΡΑΚΛΕΔΗΣ C. I. A. iv. 491¹⁰; ΚΕΤΑΙ κείται do. 491²⁷; ΜΕΝΕΚΛΕΔΕΣ 373¹¹⁷. These are almost all private inscriptions.—But ἀποδεκνύντες Röhl no. 381 B, 13 shews the Ionic shortening of this verb.

⁴ Teos C. I. Gr. 3044=Röhl 497 KEINO B, 7; in the same place 6 instances of E in this word. Halikarnassus R. 500 at least 4 times EΙΝΑΙ (with E only two certain instances); EΙΧΟΝ; on the other hand φεύγειν and επικαλείν with E. The Sigeian Inscr. R. 492 has εἰμι in the Ionic part with E, in the Attic with EI. Miletus 6th cent. (Kirch. p. 19 ff., Böhl 488, 485): εἰμι, Κλέσιος i.e. Κλεισιος, ἐπολεν i.e. ἐπολειν. Athens C. I. Att. i. 1 thrice EΙΝΑΙ; *Bull. de corresp. Hell.* iii. 179 EIMI. Comp. Cauer C. St. viii. 230.

pronunciation. Consequently *λείπω* did not tend to be pronounced as *lēpo*, but *φέρειν* (ΦΕΡΕΝ *pherēn*) did tend to the pronunciation *pherein*, without however the *i* in this case being very prominent. For the different treatment of the two sounds is a proof that they were not quite similar in the fifth century: etymological scruples about original *i* were obviously foreign to those writers. I am consequently opposed to the opinion, which is tolerably general at present, being held by Brugman¹ and after him by G. Meyer, according to which the spurious *ει* never had the value of a diphthong among the Athenians and Ionians, but was only an orthographic expression for *ē*; A. Dietrich² seems to me rather in this respect also to have seen the truth. For distinction of quantity cannot be regarded either in this case or elsewhere in ancient times as the cause of difference in writing: consequently the second syllable of *φέρειν* was distinguished from the first in *quality*. The levelling of *ει* and *ē*, that is the passing of both of them into the mixed-sound described above, takes place for Athens and Ionia in the fourth century; after the first decades of this century *E* is very seldom found for spurious *ει*, although this mode of writing can be traced beyond the middle of the century³. The Bœotians write their long closed *e* (= Att. *η* and *ει*) even in the fourth century very frequently with *E*⁴; the thickened pronunciation can scarcely here be traced back beyond the beginning of this century⁵. Subsequently the *i* everywhere prevailed over the *e* in the case of the later (spurious) *ει* of the various races, just as had long before happened in Bœotia in the case of the real *ει*. The view of Zacher (p. 30 of the treatise referred to on p. 16), that real

¹ Brugman *C. St.* iv. 82 ff.

² A. Dietrich *Kuhn's Ztschr.* xiv. 67; Rödiger *Progr. Berl.* (Luisenst. Gymn.) 1884 p. 6.

³ The latest Attic examples known to me are 'Εστιαίης Ὀτρυνῆς πρυτάνες (341 / 0 B.C.) *C. I. A.* II. 872; ἀποδώσειν and ἐς δο. 804 A^a 33, ^b 13, B.C. 334 / 3. 'Αλικαρνασσῆ (dative) is found in the inscr. *Bull. de corr. Hell.* 1888, 173 (B.C. 354 / 3).

⁴ For instance the inscr. of Orcho-

menos *Bull. de corr. Hell.* III. 454, *Dialekt. Inschr.* 470, composed soon after 330, has in five instances *EI* only once, *E* 4 times; that from Thespiæ *id.* p. 382, *Dialekt. Inschr.* 798, never has *EI*.

⁵ Examples on the Theban inscrip. Röhl no. 300, which shews in essentials the Bœotian alphabet; here *EI* comes four times, *E* thrice; and ΚαλλικράτEIs on the archaic inscr. of Akraiphia, Lolling *Monatsber. d. Berl. Akad.* 1885, 1031 no. 4, 2.

and unreal $\epsilon\iota$ were united in the 4th century into a pure closed e (\bar{e}), seems untenable. For if $-\epsilon\iota\nu$, as we are bound to assume, was in the 5th century $e'n$, but in the 2nd or 1st $\bar{i}n$, it is quite certain that it cannot in the meantime in the 4th and 3rd have been $\bar{e}n$. With regard to the Attic-Ionic $ou=\bar{o}$ the case stands thus: the mode of writing was for a long time almost exclusively O, nay, isolated instances occur, where it is written for $\acute{o}\upsilon$ diphthong, as in TOTON $\tau\acute{o}\upsilon\tau\omega\nu$ ¹. Even after the reform of the Attic orthography the simple O held its ground with great persistency, (and got more and more to be used quite indifferently for ou and \bar{o}), isolated examples occurring up to the end of the fourth century². In this case then the designation of the diphthongal sound is at an ancient period no more constant than that of the lengthened sound, and accordingly the diphthong ou had as early as the fifth century coalesced with a sound, which arising from \bar{o} approximated to \bar{u} , and finally became an undoubted \bar{u} ³. When the Bœotians in the fourth century adapted their own to the ordinary orthography, they employed the combination OΥ in this value, that is for their old Υ, for which unlike most of the other Greeks they had preserved the old u -sound. In the first quarter of the fourth century however the difference in quality between o and its lengthened form cannot have been great at Athens, since to take an instance on the document of the new

¹ Dietrich l. c. p. 51 ff. Cauer *Curt. Stud.* viii. 241 ff. OΥ is always written for \bar{o} on the inscr. of Keos R. 395. In this dialect therefore the coalition took place very early. The Asiatic-Ionic insor. generally distinguish correctly (Chios R. 380; Halik. 500), in Chios 382 however we have $\tau\acute{o}\tau\omicron$; Teos 497 b, 26 $\beta\alpha\rho\beta\acute{\alpha}\rho\omicron\upsilon\varsigma$. Comp. Erman *Curt. Stud.* v. 284 f. On the Attic treasurer's account C. I. A. i. 128 (Ol. 91, 2), TOTON and TOTO stand almost without exception, though it is true the older documents of a similar nature and also most of the later ones shew TOTTON and TOTTO quite without exception (s. no. 117—

176). Other examples of O for real ou from the 5th and 4th centuries are given by Meisterhans *Gr. d. att. Inscr.* ed. 2, p. 49. For $ou=\bar{o}$ the oldest example on stone is C. I. A. i. 36 ΛΟ (end of the 6th century?) 'Ηρακλέους, Meist. p. 21, n. 121; exx. on vases Kretschmer, p. 154 (cp. p. 30, n. 3).

² The latest Attic exx. C. I. A. ii. 836 c—k Μαλθακλο(υ) and other genitives in $-\upsilon\upsilon$, Meisterh.² p. 6, n. 21. The inscription dates from the time of the Chremonidean War (circ. 262). See also *Bull. de corr. Hell.* iii. 513 κοινὸ and $\mu\upsilon\lambda\omega\theta\rho\acute{o}$ (B.C. 302, 301).

³ Acc. to Dietrich p. 60.

maritime alliance (378/7)¹ simple O stands or stood forty times for this *ou*, while *ou* is only written three times for it. And nevertheless in the same document every *ει* is constantly expressed by EI. In agreement with this Plato in the *Kratylus*² indicates the difference between *καλόν* and *καλοῦν* simply as one of accent and quantity. On the other hand on a stone of the year 363/2³ *ō* is written only nineteen times with O and twenty-five times with OΥ; accordingly the transition to *ū* made rapid advances, so that about the middle of the century there was no longer any very great difference between the Bœotian *υ* in Πύθιος *Pūthios* and the Attic *ou* in βουλή.

SECTION 11.

Later development of the sounds EH, OΩ.

At this point I leave the diphthongs, especially *ει*, to turn to the further development of the E and O sounds which remain. It cannot be allowed that Attic *η* in isolated instances became later *ει*, especially in late Attic *βασιλεῖς* as opposed to old Attic *βασιλῆς*: it is rather the case that the latter goes back to *βασιλῆες βασιλέης*, the former to *βασιλέες*, and the resolved forms occur both in the fifth and the fourth century⁴. But in the Dorian and Ionian islands of the Archipelago we meet here and there in post-classical times with forms of writing such as

¹ C. I. A. II. 17. I consider the *ou* of Ἰουλιῆται as spurious, cp. G. Meyer² p. 92, on ἴουλος, and C. I. A. II. 546, where in a decree of Iulis *ou* in every other word is written diphthongally, but IOAIHTΩN (occurring three times) is regularly written so, being evidently the survival of an old form of writing.

² Plat. *Kratyl.* 416 B: λέγουσί γε αὐτὸ (τὸ καλόν, "in pronunciation") ἀρμονία ("accent") μόνον καὶ μήκει τοῦ *ou* παρῆκται. Cp. 396 c οὐρανία derived from ὀρώσα τὰ ἄνω, 402 B Κρόνος from κρουνός, 406 c OINOS from οἶεσθαι and νοῦς, all without any notice of a difference of sound.

³ C. I. A. II. 54. The statistics for Dittenb. *Syll.* no. 79 (likewise belonging to the year 363/2) give OΥ for real *ou* 14 times, for spurious (including Ἰουλιῆται) 16; O for real *ou* 4, for unreal 85.

⁴ Old Attic XAAKIΔEEΣ C. I. A. IV. 27^a; *ιππέης* Kumanud. 13 (beginning of 4th century), to be compared with *ιππέως ιππέās*. Late Attic, e.g. *Εἰκαδέες* II. 609; also written *είες* as *ib.* 872 *Κολλυτείες*, see Dittenberger, *Herm.* XVII. 38: his view is opposed by Wackernagel *K. Z.* XXVII. 267 f. unsuccessfully in my opinion as regards the chief point at issue.

εἴ for ἦ, δεείση for δεήσει, προνοειθήτω, ἐνεῖσαν, ἐνειρώσια¹; also in the Dorian Peloponnese τειρέϊν, εἶ μάν, συντελεῖται (conjunctive)²; which all point to at least a closed E-sound, such as arose at an early period in Keos and Naxos for common Greek η. For this η εἰ as yet by no means coalesces with ι, although the phenomenon signifies the progress of the sound in this direction. In Bœotia and indeed also in Thessaly the original η as in πατήρ may at the close of the second century B.C. have reached the ι-extremity³; hence it would not be wrong to call the itacistic pronunciation of this letter the Bœotian. Short ε has especially in two cases a tendency to pass into εἰ, firstly before σ with following consonants, as in Bœotian Θεισπιεῖες Θεσπιεῖς, Θιόφειστος Θεόφειστος, vulgar εἴσχηκα εἴσχημαι⁴; secondly and far more frequently where followed immediately by vowels: ΜΑΝΤΕΙΟΝ ἰδρύσειως Κιτιείων βασιλεία (accus. of βασιλεύς) Λειωγόρου εἰαυτόν, in Attic as early as the fifth and fourth century⁵. It has been remarked that an *i* can very easily be

¹ Epikteta's Will Thera C. I. Gr. 2448 (Caner² no. 148) not infrequent; ἐνεῖσαν and ἐνειρώσια often in the Delian insor. *Bull. de corr. h.* II. 570 (only in these two words and not without exception in them).

² Mystery-inscr. of Andania Cauer no. 13 (2nd ed. 47), Dittenb. *Syll.* 388; Mantinea Le Bas 352^b (τειρέϊν by ἐτήρησεν); do. 352ⁱ 43, εἴ for ἦ. Εἶ μάν however appears to be rather a jussum speciale of the language than to rest on a universal principle; for it is found also (as εἶ μάν) in the Septuagint and quoted in the *Etymol. M.* s. v. (Lachmann, *N. Test.* 1, p. xli). Also συντελεῖται προσδεῖται conjunct. Athens Dittenb. *Syll.* 337, 11 (Psephism of Demades).

³ Kumanudis Ἀττικῆς ἐπιγρ. ἐπιτ. 1826 Ἴσμινίχα—Θηβαία. Ἀθηναίων ix. 362 (Lebadeia) Νιομινίω by Νιομεινίω; ἀδικῆ conjunct. for Bœot. ἀδικεῖ, *Dial. Inschr.* 425 (Lebadeia) λειτωργῆμεν; 1329 II. a¹⁰ (Thessaly shortly after 196

B.C.) Χρισίμου for Χρεισ. an accidental omission of the E.

⁴ In Thespieae itself Θεισπ. is the regular orthography, in the writing of the dialect; likewise Orchom. *Bull. de corr. h.* III. 463 in the Bœotian part of the document always Θεισπ. and actually (line 91) Θεισπιεῖεις τὸ, in the same place Θιόφειστος i.e. Att. Θεόφειστος; on the other hand in the part composed in the κοινή both names are written with ε.—As to εἴσχηκα see G. Meyer *Gramm.*² § 112; εἴσχον Telos *Bull. de corr. h.* III. 42; εἰστήλην, C. I. A. II. 563 (elsewhere ἐστήλην i.e. ἐν στήλην).

⁵ C. I. Att. IV. 373⁹⁹, II. 168, 263, 352, 553, 115^b. Meisterhans 2nd ed. p. 35. In like manner we find on the Ionic inscr. of Zeleia *Mitth. d. arch. Inst.* VI. 229 (Ditt. 113) εἰάν and ἐννελα, and I have no doubt, that Æolic πρέσβεια = πρεσβέα πρεσβευτήν and in general -ειος as gen. to εἰς assigned by grammarians to the later Ionians and Æolians, are so to be explained (Meyer² § 149).



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the subsequent development consisted entirely in the cessation of the qualitative and finally also of the quantitative distinction between *ο* and *ω*.

The case is not quite the same with *η* and *ε*: these sounds also are, it is true, frequently confounded by the Papyri¹, and on the latter as well as on inscriptions *ε* no less than *η* is used for the *e* arising from *αι*², but in other localities *η* followed the tendency to become *i*, while *ε* remained stationary or actually moved in the reverse direction. In this period however we must make a very sharp distinction between the cultivated language and that of the people: the transformations in the latter passed by no means at once into the former. For instance, it is certain that *η* preserved the *e* sound among cultivated speakers up to the fourth century A.D.; for this fact we have the clearest evidence in Greek and Latin authors. Dionysius of Halikarnassus³ puts forward in respect of agreeableness of sound the following descending scale of long vowels; *α, η, ω, υ, ι*, i.e. he denotes *ι* as the least agreeable, *η* the most agreeable after *α*. The description, which he gives of the production of *η* and of *ε*, is unfortunately not of such a kind, that we can with any certainty infer the distinction of an open or closed sound⁴. At a later period the qualitative distinction between the two letters is absolutely denied; this of course must be taken as a general statement and not extended to the distinction between *ε* and *η*.

κίου. Of course *ω* and *ο* of inscriptions also occasionally interchange, but in the early period not by any means frequently.

¹ Pap. Louvre 1 shews the following: col. 5 πυροειδές twice for -ής. 11 οϊκέσεως. 12 δισκοειδές and σκαφοειδές. no. 40 ἀπελλάγην; 46 ἡζημιλοται. Inscr.: Μηλησιππου and Ἐμπήδου Delos Bull. de corr. h. ii. 341.

² See below under *αι*.

³ Dionys. Halik. π. συνθ. p. 75 ff. R.

⁴ P. 76. δεύτερον δὲ τὸ ἦ, διότι κάτω τε περὶ τὴν βάσιν τῆς γλώττης ἐρείδει τὸν ἦχον ἀλλ' οὐκ ἄνω (as has been before

said of *α*, τοῦ πνεύματος ἄνω φερομένου πρὸς τὸν οὐρανόν), καὶ μετρίως ἀνοιγομένου τοῦ στόματος (farthest in the case of *α*).—p. 77. τῶν δὲ βραχέων οὐδέτερον μὲν εὐμορφον (on account of their shortness) ἦττον δὲ δυσειδές τοῦ *ε* τὸ *ο* (thus Usener *Ind. schol.* Bonn 1878; the mss. give some τὸ *ε* some τὸ *ο*). δι- λιστησι γὰρ τὸ στόμα κρεῖττον θατέρου καὶ τὴν πληγὴν λαμβάνει περὶ τὴν ἀρτηρίαν μᾶλλον. I think, that it is rather *ε* which is preferred; for of *ω* it is said before, that the πληγὴ takes place περὶ τὸ ἀκροστόμιον: would it then in the case of *ο* be περὶ τὴν ἀρτηρίαν μᾶλλον?

Sextus Empiricus (about 200 A.D.) declares, that there are naturally only five vowels, not seven; for if \check{a} and \bar{a} are to be reckoned as one letter, this will be not less the case with ϵ and η , o and ω , since ϵ and o lengthened give η and ω , the latter shortened ϵ and o ¹. In like manner Terentianus Maurus (end of the third century) says: litteram namque ϵ videmus esse ad $\eta\tau\alpha$ proximam, sicut o et ω videntur esse vicinae sibi: temporum momenta distant, non soni nativitas². Marius Victorinus, Ausonius and Martianus Capella³ also in the fourth century bear witness to the universal quality of η as e ; the same may be said of Ulfilas, in whose translation of the Bible η is prevailingly represented by Gothic e , seldom and then only owing to the fault of the East-Gothic scribes in Italy by i ⁴. Isolated examples of confusion of η and ι , which have been cited from inscriptions of the period of the Empire or even earlier, have the less weight as opposed to these evidences, inasmuch as such examples in many instances do not bear a critical examination⁵. And even those instances, which do bear such an examination,

¹ Sextus Empir. *adv. mathem.* p. 625 Bk. :—ἀκολουθήσει καὶ τὸ ϵ καὶ τὸ η ἐν εἶναι στοιχείον κατὰ τὴν αὐτὴν δύναμιν κοινόν. ἡ γὰρ αὐτὴ δύναμις ἐπ' ἀμφοτέρων ἐστί, καὶ συσταλὲν μὲν τὸ η γίνεται ϵ , ἐκταθὲν δὲ τὸ ϵ γίνεται η (there follows a corresponding statement with regard to o and ω).

² Terent. Maur. v. 450 ff.

³ Mar. Victorin. *Ars gramm.* p. 39 Keil: quam (the syllable *Ther* in *Thersandrus*) si produxeris—, ut pro e η Graeca littera audiatur, quae semper naturalongae est. Anson. p. 202 ed. Bip.: $\eta\tau\alpha$ quod Aeolidum (i.e. Graecorum, see Henrichsen p. 145) quodque e valet, hoc Latine E. Mart. Cap. iii. § 235: E autem vocalis duarum Graecarum litterarum vim possidet. Nam cum corripitur, ϵ Graecum est, ut *ab hoc hoste*; cum producitur, $\eta\tau\alpha$ est, ut *ab hac die*.

⁴ *Aunisimus* Ὀνήσιμος, *Filippisians* Φιλιππησίους. In Koptic also the letter \mathfrak{H} signifies in the earlier period e and is confused with ϵ ; only in a later period

with I; vide Stern's *Koptic Gramm.* p. 32.

⁵ Thus IPΩΩN is said to stand on the inscr. of Karpathus in Ross 3, no. 264, as the editor himself makes prominent. If however we look more closely we find that this word stands by itself in a line and is preceded by an empty space, and moreover that there is a serious gap in the sense. I therefore have no doubt that the first half of H has disappeared in this gap. Dittenberger *Herm.* vi. 147 cites C. I. Gr. 2588 (Gortyn) *Κυντήλιος Quintilius*, *Κυρίνης*, 2790 (Aphrodisias) *ἐψηφησμένα*, 6672 (Rome) *Καλλήστρατος ἀνέθικεν*. He says in general, that such instances become more frequent according to the various localities towards the end of the second, or as in the case of Athens, not till the third century. Meisterhans p. 15 places the transition at Athens 150—250 A.D. *Δινάρια* appears twice on the inscr. of Gytheion Le Bas 243^a (161—169 A.D.), without any other

are with regard to the general statement convincing only for the popular dialect, not for the general pronunciation. †

Incomparably more valuable than a few dozen of such isolated scriptural errors is the fact, that in the Alexandrine mss. of the Bible belonging to the fourth century, the Sinaitic and the Vatican, ϵ and $\alpha\iota$ (e), ι and $\epsilon\iota$ (i) and indeed υ and $ο\iota$ are not infrequently confused; but not η (e) and ι ; the pronunciation of these symbols is consequently established beyond a doubt for this period and locality. Moreover in the *Psalterium Veronense* of the fifth to sixth century, which gives the Greek text in Latin letters, e stands for $\epsilon\eta\alpha\iota$, i for $\iota\epsilon\iota$ and y for υ and $ο\iota$ ¹, from which we may infer, that in the West the old pronunciation of the η maintained itself for a very long time. In like manner Egyptian documents of the Byzantine period in the signatures written in Latin letters regularly transcribe η with e ². On other points there ought to be no disagreement as to the pronunciation of the real Byzantines; the followers of Erasmus are wrong in attempting at all to rebut the proofs which their opponents have drawn from Eustathius. However the pronunciation as e seems to have maintained itself to this day in the popular dialect of Trapezus³. Very few confusions between ι

interchange of η and ι . Bursian, who with regard to η is entirely on the side of the Erasmians, gives on p. 185 as the oldest evidence for $\eta = \iota$ Steph. Byz. s. v. Νάξος: τὸ δὲ κριτικὴ ἀκόνη, εἰὰν διὰ τοῦ ι γράφηται, ἡ διακρίνουσα καὶ φανεροῦσα σημαίνει. It will be found to be an addition of the epitomator Hermolaos, consequently of the date of Justinian. On the numerous Syrian inscr., ranging from the second to the sixth century A.D., communicated by Wetstein *Abhandl. d. Berl. Akad.* 1863 255 ff., $\epsilon\iota - \iota$, $\alpha\iota - \epsilon$ are very often interchanged, $\eta - \iota$ hardly ever. But the fact, that $\kappa\alpha\iota$ here is commonly written $\kappa\acute{\epsilon}$, seldom (no. 118) $\kappa\acute{\eta}$, must be explained from the open sound of the ϵ and the closed sound of η already current then. A similar result is given by the inscriptions of Asia Minor

collected by Sterret (*Archaeol. Instit. of Amer.* vol. III., $\kappa\acute{\eta}$ for $\kappa\alpha\iota$ no. 395, an inscr. of Christian period with very corrupt orthography). I remark against G. Meyer *Gr.* p. 89, that $\kappa\alpha\iota$ $\rho\alpha\iota$ Pap. L. 41, is not itacistic for $\kappa\alpha\iota$, but a plebeian contraction from $\kappa\alpha\iota$; comp. $\kappa\epsilon\kappa\alpha\iota$ and $\kappa\alpha\iota$ on the leaden tablets of Knidos, Wachsmuth *Rh. Mus.* xviii. p. 569 f. The word being much used underwent an especial shortening.

¹ Lachmann *Nov. Test.* vol. 1, p. xli. In a transcript of the *Symb. Apostol.* belonging to the 9th century η is represented sometimes by e sometimes by i .

² Wessely *Wiener Stud.* viii. 112 (*strategiu*, *esemioth.* = $\epsilon\sigma\eta\mu\epsilon\iota\acute{\omega}\theta\eta$ etc.).

³ Foy *Lautsyst. d. gr. Vulgärspr.* p. 85; Deffner *C. Stud.* iv. 286. Cp.

and η have perpetuated themselves in our mode of writing, but according to the testimony of inscriptions ($\kappa\alpha\theta$) η μερίσιος, $\nu\upsilon\kappa\tau\epsilon\rho\acute{\iota}\sigma\iota\omicron\varsigma$ appear to be correct, a fact which explains away the anomalous use of the η after ρ ¹.

SECTION 12.

Pronunciation of Υ .

Of the two remaining vowels, ι and υ , only the latter demands any description. At the present day it is pronounced like ι , except dialectically, where the sound \ddot{u} , or $\iota\omicron\upsilon$, is still heard²; the classical pronunciation is \ddot{u} , but the original sound u , and it was with this latter value that the symbol V (Υ) was taken over by the Italians from the Chalcidians of Kyme. The Chalcidian HVIIV ($\acute{\upsilon}\pi\acute{o}$) will accordingly have been pronounced $h\upsilon\pi\upsilon$, and the use of Koppa before the nearly allied υu as well as before o on Chalcidian vases appears quite natural: $\Upsilon\acute{\upsilon}\Upsilon\nu\omicron\varsigma$, $\lambda\acute{\eta}\Upsilon\nu\theta\omicron\varsigma$ ³. This use of Koppa occurs, it is true, in Corinthian inscriptions also, although in Corinth to all appearance the pronunciation was at a very early period the ordinary modified one. At least I do not know, how the forms on the latter vases $\Upsilon\sigma\mu\acute{\eta}\nu\alpha = \text{'I}\sigma\mu\acute{\eta}\nu\eta$, $\text{K}\iota\alpha\nu\acute{\iota}\varsigma$ apparently = $\text{K}\upsilon\alpha\nu\acute{\iota}\varsigma$ ⁴ admit of any other explanation.

It is quite possible however, that the writing $\Upsilon\nu$ was continued into the period when the modification was beginning or even after it had become general. In Eubœa the native land of the Chalcidians the place-names $\text{K}\upsilon\mu\iota = \text{K}\acute{\upsilon}\mu\eta$ and $\text{S}\tau\upsilon\tau\upsilon\alpha = \text{S}\tau\acute{\upsilon}\rho\alpha$

Appendix. On $\nu\epsilon\rho\acute{o}$, $\xi\epsilon\rho\acute{o}\varsigma$ etc. cp. above p. 21, n. 3, G. Meyer, § 73.

¹ $\text{K}\alpha\theta\eta\mu\epsilon\rho\acute{\iota}\sigma\iota\alpha$ C. I. A. iv. p. 76 (col. III. 25); for $\nu\upsilon\kappa\tau\epsilon\rho\acute{\eta}\sigma\iota\omicron\varsigma$ $\nu\upsilon\kappa\tau\epsilon\rho\acute{\epsilon}\iota\sigma\iota\omicron\varsigma$ also has mss. authority (as in Aristoph. *Thesm.* 204). Cp. $\nu\upsilon\kappa\tau\epsilon\rho\iota\nu\acute{o}\varsigma$ $\acute{\eta}\mu\epsilon\rho\iota\nu\acute{o}\varsigma$. In Plin. xxxv. 11, § 124 mss. Bamberg. and Voss. have *hemerisios*.

² Foy p. 86; Meyer² § 93. Cp. Appendix.

³ HVIIV Bechtel *Inschr. d. ion. Dial.* 3 (Kirchh. 121); $\Upsilon\acute{\upsilon}\Upsilon\nu\omicron\varsigma$ $\lambda\acute{\eta}\Upsilon\nu\theta\omicron\varsigma$ C. I. Gr. 7611, 8337; likewise $\Upsilon\lambda\upsilon\tau\acute{\omega}$ 7331

(but $\text{K}\lambda\upsilon\tau\acute{\omega}$ 7459), $\Upsilon\lambda\upsilon\tau\acute{\iota}\omicron\varsigma$ 7382; that is, the interposition of a consonant does not remove the influence on the K-sound (or on its representative). Cp. $\text{'A}\rho\Upsilon\acute{\upsilon}\lambda\eta\varsigma$ (?) Róhl no. 520 (Chalc.) and from Doric Magna Græcia do. 513 $\Upsilon\nu\nu\acute{\iota}\sigma\Upsilon\omicron\varsigma$. Corinth Rohl 7, 47 $\Upsilon\nu\lambda\omicron\acute{\iota}\delta\alpha\varsigma$, *Dial. Inschr.* 3123 (3129) $\Upsilon\acute{\upsilon}\lambda\lambda\alpha\rho\omicron\varsigma$, 3135 $\Upsilon\lambda\acute{\upsilon}\tau\omicron\varsigma$ $\text{P}\epsilon\rho\iota\Upsilon\lambda\acute{\upsilon}\mu\epsilon\nu\omicron\varsigma$ etc. Cyrene Rohl 506^a $\Upsilon\nu\rho\alpha(\nu\alpha\acute{\iota}\omega\nu)$. But in Attica $\text{K}\upsilon\nu\acute{o}\rho\tau\eta\varsigma$ side by side with $\Upsilon\acute{o}\rho\alpha\varsigma$, Meisterh.² p. 22.

⁴ *Dial. Inschr.* 3130, 3135.

remain to this day. That the *u*-sound was preserved in the neighbouring country of Bœotia, we know from the transliteration with *ou*, which became usual there after the adoption of the common Greek modification of the Ionic alphabet; this *ou* was in the course of the fourth century already employed for the short sound also: Πουρρῖνος, Φάουλλος¹. This is another proof, how little the ancient Greeks troubled themselves about the differentiation of short and long vowels in script. The popular Lakonian also still possessed the *U*-sound, as is shewn by glosses², such as κάρουα, τούνη i. e. σύ, οὔμαί ὑμέτεραι. It must be stated however that on inscriptions and in the literary monuments of this dialect no such form is found³; accordingly the cultivated language of the Spartans may have had the ordinary *ü*, in support of which the interchange of *υ* and *ι* on inscriptions such as Τινδαρίδαι, Ἐλευῦνια (Ἐλευσίνια)⁴ may be cited.

In Cyprian and Pamphylian also the sound appears to have been the original one⁵. But in general the *u* was modified at a very early period in the same way as Latin *u* in France and northern Italy⁶: this pronunciation is established for the Attic of the fourth century in particular by the Bœotian manner of writing; for the *ou* would not have been introduced, if the Athenians had given the same value to **Υ** as the ancient Bœotians. Moreover if that had been the case, as *ō* became nearer and nearer in sound to *u*, a confusion between the symbols **O** (**OY**) and **Υ** would have been inevitable. But on Attic and other inscriptions of the fifth and fourth centuries it is rather **I** and **Υ** which interchange: βιβλίον and βυβλίον,

¹ Orchom. *Bull. de corr. hell.* III. 454 = *Dial. Inschr.* 470 (about 330 B.C.); *υ* is written here as well. The Theban inscription on the contributions to the Sacred War (Ἀθηναίων III. 479, *Dial. Inschr.* 705) has *ou* only for *ū*. Cp. R. Meister *Gr. Dial.* I. 231 f.

² Ahrens *D. D.* p. 124 ff.; G. Meyer² p. 103 f.

³ But Κονοουρεῖς = Κυνοσουρεῖς on the very late Lakon. inser. C. I. Gr. 1347 and 1388 comes under this head (Ahrens l. c.). Among literary monu-

ments Alcman's poems come particularly under consideration, since the *ou* has been introduced into the Bœotian poems of Corinna; the Lakonian in the *Lysistrata* indeed shews throughout *υ*, but the same may be said of the Bœotian in the *Acharnians*.

⁴ Τινδ. Röhl 62^a; also *Bull. de corr. hell.* III. 365 (Cythera). Ἐλευῦνια R. 79, 11, cp. Ἐλευσυνίω *Crete Bull. de corr. hell.* III. 292 l. 8 (name of month).

⁵ G. Meyer² p. 105 f.

⁶ Diez *Cr.* p. 85 f.

τρίβλιον and τρύβλιον, Μουνιχιών and Μουνυχιών, ἥμισυ very frequently for ἥμισυ¹, Ἀμφικτύονες and Ἀμφικτίονες. Added to this the treatment of the diphthong υι, which at Athens in the fourth century was simplified to υ almost without exception, would be perfectly incomprehensible, if the latter had been not *ü* but *u*: the Bœotians write ουίός. But in Athens even the archaic inscriptions shew υύς without ι, the old nominative form corresponding to the genitive υίέος, and a confusion of sense is created by the coalition of the two υ's, which the composer of an inscription reading from right to left has not even avoided in script (HTΣ), but which was generally got rid of by the transference of the nominative and accusative to another declension². It would seem to me just as unlikely that *huiús* should have become *hus*, as that οίος should ever become ούς in spite of the occasional shortening of the οι. In the next place, if a Greek transliteration like Κυρήνιος from *Quirinius* is only possible on the assumption of the modification of the υ, the same may be said of the υ of the Asiatic Ionians of the fifth century, considering the treatment of Persian names such as *Vištaspā* Ὑστάσπης, *Vidarna* Ὑδάρνης. That the Thessalian pronunciation was *ü*, is shewn by their writing ου instead of the ordinary ω. In the case of the κοινή there is no room for doubt; indeed the modified

¹ *Att. Inschr. Meisterh.*² p. 22; even in the tribute lists of the fifth century Κυνδυῆς and Κυνδυῆς are interchanged. Βιβλίον C. I. A. II. 1^b; βιβλος *Mitt. d. arch. Inst.* VII. p. 368, of the year 346. The writing with υ has no evidence from inscriptions earlier than the first century B.C. but nevertheless appears to be the original (*Birt Buchwesen* p. 12). Quite analogous to βιβλίον is τρίβλιον for τρύβλιον Delos 364 B.C. (*Bull. de corr. hell.* X. 461, l. 16, 23). Μουνυχ. first C. I. A. II. 247 (306 B.C.); ἥμισυ II. 17 A, 45 (378/7 B.C.) and in all later Attic examples; further, *Bull. de corr. hell.* II. 580 (Delos), Pap. Louvre 1, col. 4 and in general here without exception; but in the more correct documents no. 22 and Pap.

Taur. 1, ὅ ἥμισυ. In Ἀμφ. the υ appears first 410 B.C. (*Bull. de corr. hell.* VIII. 283). On the inscr. of Halicarnassus *Bull. de corr. hell.* IV. 295 (circ. 400) Σιδύλημις and Συδύλημις; the stone of Sigeion Röhl 492 (6th cent.) Συκεεῦσι Σιγευεῦσι Σιγειεῖς. Examples from Delian insor. (circ. 180 B.C.) Homolle *Bull. de corr. hell.* VI. 114 (κυλύχνιον cp. κυλίχνη, Κυνθυκῶι -ικῶι, Χοιρύλος assimilation like ἥμισυ). Δυνδυμέν[η] Artake *Bull. de corr. hell.* XII. 108. Megarian αἰσιμνάτας, Bechtel n. on *Dial. Inschr.* 3016.

² HTΣ C. I. A. IV. 373⁹⁴; HTΤΣ scanned as one syllable do. I. 398, as two syllables IV. 373¹⁰⁰ (-υ). Cp. § 14 below.

pronunciation is proved even in the case of the later Bœotian, only there it takes a different form which coincides with the present English representation of French *u*. That is to say an *i* is prefixed, and there arises an improper diphthong, which so far as the writing is concerned was in Greek actually a triphthong, capable of being scanned either short or long: Πολιούστρατος, τιούχα, Διωνιούσιος. This mode of writing is however never constant, and is generally only found after $\delta \tau \theta \nu \lambda$ ¹. A similar development of sound has taken place also in popular dialects of modern Greek, for instance in that of Trapezus, and in the descendant of the ancient Lakonian, the Tsakonian, from the latter of which are cited λιούκο λύκος, κιοιρέ τυρός, νιούτα νύξ and others². In this case the modification, which is strange to the ancient dialect and even in the modern has by no means become general, seems to have established itself in a manner analogous to that in Bœotia; but in Trapezuntine and in the other localities, where a similar phenomenon is found³, the transition may have been similar to that in English, that is *yu* may have appeared in the place of a *ii* which was disappearing. In ordinary Greek however the *ii* has maintained itself for a very long time, not only through the Roman period, where the Latin representation with *u* and then with *y* is in evidence against its identity with *i*, but also on into the Byzantine era.

For long after the extinction of the diphthongs and the transition of η to ι , υ and $\omicron\iota$ (which by that time coincided with υ in sound) kept themselves distinct from $\iota \eta \epsilon\iota$, even the most uneducated masons never confusing them. Accordingly in Suidas' Lexicon, where $\epsilon\iota \eta \iota$ stand together after Z and before I, $\omicron\iota$ and υ are put by themselves in the alphabetical position of the latter; at that time every one knew by the light of nature, that οἶκος and ὑγρίς were not to be looked for under ι or η ⁴.

¹ R. Meister *Gr. Dial.* i. 233. But also $\iota\omicron\upsilon\hat{\omega}$ (Tetraphthong!) Chaeronea *Dial. Inschr.* 382.

² Foy p. 86; Deffner *C. Stud.* iv. 298 ff.; G. Meyer² p. 108.

³ Meyer produces from the modern Greek of southern Italy $\chi\upsilon\upsilon\omicron = \chi\acute{\upsilon}\nu\omega$ $\chi\acute{\epsilon}\omega$, $\acute{\alpha}\chi\upsilon\omicron\upsilon\omicron \acute{\alpha}\chi\upsilon\omicron\upsilon\omicron$, from Church Sla-

vonian the borrowed words, $\kappa\upsilon\upsilon\omicron\iota\acute{\nu}\alpha$ $\acute{\kappa}\acute{\upsilon}\mu\iota\omicron\upsilon\omicron$, $\mu\upsilon\upsilon\omicron\upsilon\omicron \acute{\mu}\acute{\upsilon}\rho\omicron\upsilon\omicron$, $z\mu\upsilon\upsilon\omicron\upsilon\omicron \sigma\acute{\mu}\acute{\upsilon}\rho\omicron\upsilon\omicron$.

⁴ This is not contradicted by the fact, that confusion between η - $\omicron\iota$ - υ - ι etc. appears occasionally in a Papyrus of a much older date, see Psichari *Rev. crit.* 1888, 381. For the Byzantine period, where we have such abund-



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$\omega\upsilon\rho\iota\pi\acute{\iota}\delta\eta = \acute{\omega} \text{ Εὐριπίδῃ}$), is more frequent in Ionic and Doric, but even here is almost confined to crasis: $\acute{\epsilon}\omega\nu\tau\acute{\omicron}\upsilon$, $\acute{\omega}\nu\tau\acute{\omicron}\varsigma$. Now we find on an Ionic inscription $\acute{\epsilon}\omega\nu\tau\acute{\omicron}\nu$ ¹, with shortening and at the same time also approximation of the first sound to the second ($\acute{\omicron}\nu$ instead of $\bar{\omicron}\nu$); $\kappa\acute{\omicron}\nu = \kappa\alpha\acute{\iota} \omicron\nu$ also may be ascribed to this shortening, since $\kappa\omega\nu$ would have been the regular crasis and is actually recorded in Sappho and Epicharmus². In the middle of the fourth century the Athenians retained $\eta\nu$ in the augments of verbs with initial $\epsilon\nu$, and it is therefore rightly replaced in texts; at a later period these verbs were augmentless, that is $\eta\nu \bar{\epsilon}u$ had passed into $\acute{\epsilon}u$ ³. This also may be regarded as an accommodation of the first element to the second, in so far as $\acute{\epsilon}$ lies farther than $\bar{\epsilon}$ from the original sound a , although not in the direction of u but of i . $\eta\nu$ maintained itself as augment of $a\nu$, chiefly perhaps owing to the Grammarians, if an inference may be drawn from the augmenting of $a\iota$ to $\epsilon\iota$, to be mentioned immediately, and from $\acute{\epsilon}\upsilon\chi\acute{\omicron}\upsilon\mu\eta\nu$ (from $a\upsilon\chi\acute{\epsilon}\omega$) $\acute{\epsilon}\upsilon\acute{\xi}\eta\sigma\alpha$ (from $a\upsilon\acute{\xi}\acute{\alpha}\nu\omega$) of later inscriptions⁴.

Far more important in the language are the corresponding diphthongs with ι , in which the other method also, that of simplification, is employed more vigorously. We have an instance of this at a very early period in the nominative of feminines in $-\acute{\omega}$, originally $-\acute{\omega}\iota$, as is shewn by the testimony of the Grammarians from old manuscripts and by a few inscriptional examples; as a general rule on quite old vases and stones we find only $-o$ (ω)⁵. The next instance to be produced under this

¹ C. I. Gr. 2909 (Mykale) = Bechtel *Inscr. d. ion. Dial.* 144. The reading of this inscription is however by no means certain.

² Sappho I. 24 $\kappa\omega\upsilon\kappa \acute{\epsilon}\theta\acute{\epsilon}\lambda\omicron\iota\sigma\alpha$, Epich. 19 Ahrens $\kappa\omega\upsilon\delta\acute{\epsilon}\nu \delta\acute{\epsilon}\iota$. On the other hand $\kappa\omicron\nu\kappa$ on a Papyrus of the Ionic dialect edited by Petrettini, *Pap. Greco-Egizj* (Vienna, 1826) line 15 (cp. p. 55, n. 2), and more accurately by Wessely, *d. gr. Papyri d. Kais. Sammlungen Wiens* (Vienna, 1885).

³ O. Riemann *Bull. de corr. h.* III. 500 f. (after Wecklein *Cur. epigraph.* 33 ff.). We find, it is true, $\acute{\epsilon}\upsilon\chi\theta\alpha\iota$ in

Köhler C. I. A. II. 57^b (B.C. 362/1), but only owing to an error, since the stone, as Riemann assures us, has HT . On the other hand we have $\acute{\epsilon}\upsilon\text{-}\acute{\epsilon}\rho\gamma\acute{\epsilon}\tau\eta\kappa\epsilon$ and $\acute{\epsilon}\upsilon\text{-}\acute{\epsilon}\rho\gamma\epsilon\tau\acute{\eta}\kappa\alpha\sigma\iota$, id. 271 and 283 (end of the fourth century).

⁴ Kaibel *Epigr.* no. 192 (Thera, in Roman period, in epic dialect); also v. 3 $\text{ETX}\Omega$ is certainly to be emended to $\acute{\epsilon}\upsilon\chi\omicron(\nu)$ not $\acute{\epsilon}\sigma\chi\omicron\nu$ or $\acute{\iota}\sigma\chi\omega$. $\acute{\epsilon}\upsilon\acute{\xi}\eta\sigma\alpha \acute{\epsilon}\pi\acute{\epsilon}\upsilon\acute{\xi}\eta\sigma\alpha$ in Greek text of Monum. Ancyranum col. 1, 8; 14, 4.

⁵ Meyer² p. 315. In Röhl's *Inscr. Gr. ant.* I find only three instances of ι : no. 415, 433 (Melos), 558 (Akrai

head is the *-ησι -ασι* of early Attic inscriptions by the side of *-ηισι -αισι* (i.e. *āισι*) in the dative of the first declension: this *-āισι -ασι* occurs only after *ι* or *ρ*, while the form *-αις* which appears subsequently following all sounds alike has the *α* short¹. The Dorians, Bœotians, etc. had *-αις* already in the earliest period; the ancient Bœotians having also *ἄι* in the dative singular, as we may gather from the analogy of their *οι* in the dative of the second declension; the same is true of the Arcadians and Eleans. In the case of these races indeed the diphthongs *αι ωι* had in general become *αι οι*; for *πατροῖος* is recorded by the Grammarians as a Bœotian form². Or again, they kept the vowels separate, Bœot. *Πτωΐων Ὁμολώϊχος Εἰρωΐδας*, like *Καραΐων Ἐρμάϊος Νικολάϊος*. Among the Thessalians we find in like manner *Εἰρουΐδας* and *πατρούεαν*³, where no one will assume diphthongs *ουι* and *ουε*; in the other cases this dialect rejects the *ι* tolerably early; *τᾶ* for *τᾶι*, *τοῦ* for *τῶι*⁴. The Lesbians also as early as the fourth century begin to dispense with the *ι* of the dative⁵. Conversely the Eubœan and Oropian Ionic of the fourth century weakened final *ωι* and *ηι* to *οι* and *ει*, reducing internal *ηι* before a vowel to the simple sound: *ἱερῆον*⁶. In the

a colony of Syracuse).’ But the Corinthian vases (*Dial. Inschr.* 3130, 3137, 3143, 3146, 3148, 3152, 3156) furnish 12 examples of *OI* and none of *O*. Conversely the vases in the Chalcidian alphabet (*Kirch.*⁴ 124) in eight examples of such names have only one with *ι* (*Ξανθῶι*), the Attic vases not one (*Meisterh.*² p. 109).

¹ Cauer *Curt. Stud.* viii. 403 ff.; *Meisterhans* p. 94–5. I may remark that *δραχμαῖσι* *C. I. A.* i. 48 is by no means certain, since the remainder of the line after *ΣΙ* is wanting. But *μυριησι* *C. I. A.* iv. 53^a, 20 (418 B.C.) is an error; *χιλῖαισι* stands do. 10, *ταμίαισι* 17. Also Ionic *δεσπότησι* *Röhl* 501; but elsewhere *-ηισι*.

² *Ahrens D. A.* 193 f. *Meister Gr. Dial.* i. 249.

³ *Dial. Inschr.* 326, 4; iii. 50; iv. 9; *Εἰρουΐδαιος* 345, 86 f. With Bœot. *πατροῖος* compare Thessal. *Κερδοίου*, *Ahrens*, p. 221.

⁴ With the article still earlier than elsewhere: *Röhl*, no. 327 *τὰφροδίται τᾶ Πειθοῖ* (*Dial. Inschr.* 325).

⁵ *Ahrens D. A.* p. 99; *Meister* 87 ff. Still earlier in the case of the article: *Röhl*, no. 503 *ΤΟ* for *τῶι* twice. Likewise in the dat. plur. of the article *τοῖς ταῖς*, in other cases *-οισι, -αισι*. *Ἡρωΐδας Dial. Inschr.* 281 A, 37; 262; *Ἡροΐδα Assos Arch. Inst. of America* i. p. 75.

⁶ *Bechtel Inschr. d. ion. Dial.* p. 9, 13 (*Inscr. of Eretria* no. 15, *Olynthus* no. 8, *Oropus* 18). *ἱερῆον Orop.* 18, 33, 36. *Bechtel* would assume quantitative metathesis, as in the case

case of the Athenians on the other hand $\omega\iota$ and $\alpha\iota$ hold their ground almost entirely in the classical and also in the period immediately following; with $\lambda\hat{\omega}\nu$ and $\sigma\hat{\omega}$, i.e. no doubt $\sigma\omega\hat{\omega}$ from $\sigma\omega\acute{\iota}\zeta\omega$ as $\nu\omicron\mu\iota\hat{\omega}$ from $\nu\omicron\mu\acute{\iota}\zeta\omega$ ¹, we must compare the numerous instances where $\alpha\iota$ and $\omicron\iota$ lose their ι before a vowel; $\omicron\iota$ for $\omega\iota$ is hardly more frequent than the converse $\omega\iota$ for $\omicron\iota$ ². The Asiatic Ionians distinguish correctly the conjunctives $\lambda\acute{\alpha}\beta\omega\iota\sigma\iota\nu$ (Aorist II. with long thematic vowel) and $\pi\rho\acute{\eta}\xi\omicron\iota\sigma\iota\nu$ (Aorist I. with short)³; exception might be taken to $\kappa\omicron\iota\nu\omicron\pi\acute{\iota}\delta\eta\varsigma$ on the same Chian inscription, since $\kappa\alpha\acute{\iota}\ \omicron\iota$ - must by rights give $\kappa\acute{\omega}\iota$; on the other hand $\tau\omicron\iota\kappa\acute{\omicron}\pi\epsilon\delta\omicron\nu$ on the same is correct, as $\omicron + \omicron\iota$ cannot give $\bar{\omicron}\iota$ ⁴. The case stands otherwise however with HI both for Attic and the other dialects. Dorian inscriptions shew very early for $\eta\iota$, in the conjunctive for example, sometimes η (E) sometimes $\epsilon\iota$ ⁵; in Bœotia $\epsilon\iota$ is indistinguishably confounded with η and $\eta\iota$; on Ionic inscriptions the dropping of the ι in the dative, and the use of $\epsilon\iota$ in the

of $\epsilon\omega$ from $\eta\omicron$: $\eta\acute{\iota}$ to $\epsilon\acute{\iota}$, and then to $\epsilon\iota$. In any case in this dialect it is impossible to consider the $\omicron\iota$ to have been an original locative, as many do in the case of Bœotian etc. (Eretria 'Εφημ. 1888, 83 ff. l. 180 c ΣΟΙΝΑΡ-ΓΟ[Υ], i.e. Σοιναύτου = Σωιν.?).

¹ C. I. A. II. 162; 12^b, 7. (Others, as Cauer, p. 416 ff. and G. Meyer², p. 470, take $\sigma\acute{\omega}$ as present form with future sense; cp. $\sigma\acute{\omega}\nu$, $\theta\acute{\omega}\acute{\alpha}$, Meisterhans p. 52.)

² $\tau\omicron\acute{\iota}\ \delta\acute{\eta}\mu\omicron\iota$, C. I. A. II. 277 (ΤΩΙ-ΔΗΜΩΙ Pittakis); $\tau\omicron\acute{\iota}\ \delta\acute{\eta}\mu\omicron\iota\ \tau\omicron\acute{\iota}\ \Delta\iota\omicron\nu\acute{\omicron}\sigma\omicron\iota\ \tau\rho\alpha\gamma\omicron\iota\delta\omicron\acute{\iota}\varsigma$ by side of six instances of $\omega\iota$ 'Εφ. ἀρχ. 1884, 69 ff. (in the same are two instances of \omicron for $\omicron\nu$; $\epsilon\iota$ always for $\eta\iota$); $\kappa\omega\mu\omicron\iota\delta\acute{\iota}\alpha\iota$, Kaihel no. 38 (ivth Century); conversely $\omicron\iota\kappa\omicron\sigma\iota\tau\omega\iota\varsigma$, C. I. A. II. 834^b; II. 24 (B.C. 329/8), $\acute{\epsilon}\kappa\acute{\alpha}\sigma\tau\omega\iota\varsigma$ (for $\acute{\epsilon}\kappa\acute{\alpha}\sigma\tau\omega\iota$ sing.? Meisterh. p. 52) 258 (B.C. 304), $\omega\iota\nu\omicron\chi\acute{\omicron}\eta$ 403 (iurd Century); $\sigma\tau\epsilon\phi\alpha\nu\acute{\omega}\iota$ 3rd sing. ind., Bull. de corr. hell. III. 120 (ivth Century). Epidaurus 'Εφημ. ἀρχαιολογ.

1886, p. 147, line 56 'Αξιόχοι. 69 $\tau\omicron\acute{\iota}$. 238 Τιμασιθέοι. 254 'Αριστόνοι. There are however in this inscription other instances of confusion between \omicron and Ω , as $\Lambda\nu\sigma\acute{\iota}\omicron\nu\iota$ alongside $\Lambda\nu\sigma\acute{\iota}\omega\nu\iota$.

³ Röhl, no. 381 (Bechtel, no. 174); the correct explanation for the alteration of $\omega\iota$, $\eta\iota$ and $\omicron\iota$, $\epsilon\iota$ in the conj. on inscrip. of Asiatic Ionia (and Crete) was given by Schulze, Herm. xx. 491.

⁴ The modes of writing such as $\acute{\omega}\nu\omicron\chi\acute{\omicron}\omicron\varsigma$ and $\acute{\omega}\nu\omicron\varsigma$, Eur. Cycl. 560, I cannot consider correct. Comp. $\mu\iota\sigma\theta\omicron\iota$, $\mu\iota\sigma\theta\beta\epsilon\iota = \mu\iota\sigma\theta\omicron\acute{\iota}$, $\delta\iota\pi\lambda\acute{\omicron}\omicron\iota = \delta\iota\pi\lambda\omicron\acute{\iota}$.

⁵ Ahrens D. D. 293 ff.; G. Meyer² p. 86. On the Xuthias inscription (Sparta?) Röhl, no. 68; ΖΩΕ, $\zeta\acute{\omega}\eta$ occurs twice by ΑΠΟΘΑΝΕΙ. On the pillar of Damonon (Sparta) R. 78, ΠΕΠΟΚΑ. The inscription of Gortyn however, which always has ι in the subjunct., has ΟΙΙΕ, so that these adverbs must be placed in a separate category.

conjunctive, is strikingly frequent¹; at Athens from about 376 B.C., although the usage of Ionic H was in other respects correct, EI (in isolated instances even E) was often written, and this orthography at the close of the fourth century actually prevails for every HI, e.g. *τεῖ βουλεῖ, Αἰγείς* for *Αἰγής, ἐπεινέκασι, εἰρέθησαν*². It occurs also on inscriptions and Papyri³ in the Hellenistic period, and that it existed in manuscripts, is shewn by isolated remnants on the Herculean rolls, such as *ἐκίνει* for *ἐκείνη*⁴. But with some exceptions, such as the 2nd pers. of the pres. mid. where an endeavour was made to distinguish indicative and conjunctive by *-ει* and *-ηι*, and words such as *λειτουργία* for *ληιτουργία*⁵, it was done away with by the Grammarians. In fact this is a domain, where the current rules of orthographic distinction may here and there be challenged. For instance we write the feminine derivatives of words in *-εως* in Attic with *-ής* or (which is certainly wrong) with *-ηίς*, but the corresponding masculine forms (patronymics) with *-είδης*; are we then, in an inscriptional instance like *Ἀριστηίδης*⁶, to assume that *ηι* is wrongly sub-

¹ Chios R. 382 *αὐτῆ*; other examples of *ι* omitted in Röhl ib., Bechtel, *Inscr. d. ion. Dial.* p. 72.

² Since EI for HI is commoner the later the period, we cannot consider it a remnant of the pre-Euclidian orthography. It is rightly explained by Ahrens, l. c.; there is an accurate enumeration in Meisterhans, p. 30; complete statistics, Hecht, *Orthog.-dial. Forsch.* II. Simple E, C. I. A. II. 61 (after 357) *χαλκοθήκε* and *αὐτῆ* (also *ἔχε* for *ἔχει*?), in other instances in the same *ει* and *ηι*. If we suppose *ηι = ει*, the writing E is analogous to *ο* for real *ου*, which also occurs at that period. (E, i.e. *ῆ* where, ancient Attic, C. I. A. IV. 53^a, 35; the inscr. is in other respects also not very accurate.)

³ Inscr. of Delos, *Bull. de corr. h.* II. 331 always *ει*, ib. 570 ff. *ει* and *ηι* without any rule; Samos ib. v. 482, *Ἑρμῆ* ib. 307, Delphi *εἰρέθησαν*.

Pap. Louvre 22 (2nd cent. B.C.) *Μεννίδει τῶι ἐπιμελητεῖ, 15 ἐπιμελητεῖ καθειρημένος Ἑρακλείδει*; similarly in Pap. Taur. I. II. All these documents are in other respects very correct.

⁴ Gomperz, *Wiener Akad.* vol. 83 p. 91, also in Philod. *π. θανάτου* (Scott *Fragm. Herc.* p. xxxvii s., ed. Mekler, col. 36, 1; 37, 13); cf. 3.

⁵ On *ληιτουργία* (written everywhere in Attica as late as the 4th century) Foucart, *Rev. de Philol.* N. S. I. 37; Meisterhans², p. 30. This *ει* remained in the language also in *Αἰγείς* etc., where inscriptions of the Roman period give *Αἰγίς*, Meisterhans² p. 30. In these cases the *η* had not the support of any cognate form as it had in *τιμῆ* (cp. *τιμή, τιμῆς, τιμήν*). The grammarians introduced the poetical form *Αἰγῆίς*.

⁶ Example given Meisterh. ed. 2

stituted for *ει*, or shall we consider *Ἀριστηίδης* and *Αἰγής* alike the correct writings? We have also *Ἀρχενήιδης*, *Ἀρρενήιδης*, *Χαιρελήιδης* from *Ἀρχένεως*, *Ἀρρένεως* (for *-νηος*)¹, *Χαιρέλεως*; in the datives *γραμματῆι*, *πόλῆι*², cp. *γραμματέως*, *πόλεως* for *-ηος*. Since the *-ηι* in the third decl. appears considerably earlier than the *-ει* in the first we cannot regard the former as due to this confusion of *ηι* with *ει*. Still inscriptions of the fourth century do occur, which correctly distinguish in these cases, just as we do, *Ἀριστείδης*, *ἀκροπόλει*, but *τῆι βουλῆι* and so on³; consequently if *πόλῆι* is original, the transition to *πόλει* under the influence of the other cases (?) (*πόλεως*, *πόλεις*, *πόλεσι*) may yet have taken place at an earlier time and have been more general than that of *τῆι* to *τεῖ*. According to what has been said there has taken place in this transition an approximation of the first element to the second, *εῖ* for *εῖ*, simultaneously with a shortening; in the case of the Dorians, with whom *-ηι* was in general far more rare of occurrence, it was the more readily done away with, and indeed with the result that for *εῖ* sometimes *ē* sometimes *εῖ* was heard. Arcadian, which also does not know *α ω*, always shews *η* in the conjunctive. With the close however of the third century B. C. came the period, in which the *ι* of the diphthongs *αι ηι ωι* began to disappear altogether from the language. Private documents of the second century, such as the emancipation inscriptions at Delphi and the ordinary sort of Papyri, shew more or less numerous errors in this respect, *τὸν ἱερῆι*, *ἐχέτωι*, *ταῦτάι* (nent. pl.) with improper *ι*, *Ἐρυμάνδρα* as dat., *ἐφ' ὧτε*, *ἐν κατοχῆ*

p. 29, n. 179; cp. *Bull. de corr. hell.* 1888, 136.

¹ Meisterh. p. 29, n. 180—182.

² *γραμματῆι*, C. I. A. II. 90 (about 356); *πόλῆι ἀκροπόλῆι* IV. 51 f. (410 B.C.); II. 25, 35, 42 (all before 376), 50 (372); last example according to Meist. p. 108, n. 991, 162 a, 12, B.C. 335. Add *Bull. de corr. hell.* XII. 139 (378/7), 142, 153 ff., I. 30 (393), 161 f. (399). *πόλῆι*, Iasos *Bull.* IV. 497 = Bechtel, n. 104, 3 (4th century); —*κ]ράτῆι*, C. I. A. II. 644 (B.C. 400/399); also *ἔτῆι* for

ἔτει C. I. A. II. 1059 (321 B.C.), *Ἀπολλοφάνῆι* 834, 6, II. 54 (329 B.C.), Meisterh.² p. 31. Meisterh. considers *γραμματῆι* also erroneous, because there is only one instance of it, while there are many of *γραμματεῖ* and much earlier.

³ *Bull. de corr. h.* III. 474. Attic documents of 369 and 363 deposited at Delos (HI in dat. 1st decl. and in conj. in 11 instances; *ἀκροπόλει* twice; *Ἀριστείδης* once).

without the proper ι^1 . Among these irregularities we still find the earlier $\epsilon\iota$ and $ο\iota$ also, for instance at Delphi once in the same line $\tau\omega$ and $ο\iota$ i.e. $\omega\iota^2$. Similar uncertainty prevails e.g. on the Cretan inscriptions in Teos, which likewise date from the beginning of the second century³. Still it is possible that the cultivated pronunciation of this period still maintained the ι , although for the common people it was a mute letter: at least on carefully composed inscriptions and Papyri there is as yet no uncertainty in its use, except that it is added (and indeed consistently) to the optative, as for instance $\epsilon\dot{\iota}\eta\iota$, $\theta\epsilon\dot{\iota}\eta\iota^4$. It is certainly allowable, although some caution is necessary, to take good documents of the second century as evidence in doubtful cases; on the other hand hardly those of the first, and certainly not those of the Empire. For it actually came to pass, that even the educated no longer knew, except perhaps in the case of the dative, where the mute letter ought to stand and where not, and that the Grammarians disputed among themselves and tried to ascertain scientifically, as for instance

¹ See the Delphian documents published by Wescher-Foucart and similar examples in *Bull. de corr. h. v.* 397 ff., from the latter of which I have taken my examples. Pap. Louvre 63 (B.C. 165), col. 7 $\tau\alpha\dot{\upsilon}\tau\alpha\iota$; col. 3 $\lambda\acute{o}\gamma\omega \tau\iota\nu\acute{\iota}$, 4 $\zeta\upsilon\tau\eta\rho\acute{\alpha}\iota$, 6 $\beta\rho\alpha\beta\epsilon\upsilon\theta\eta$ and $\tau\acute{\upsilon}\chi\eta$ conj., no. 22 (tolerably correct) $\acute{\epsilon}\nu \kappa\alpha\tau\omicron\chi\eta$ and $\acute{\epsilon}\pi\alpha\nu\alpha\gamma\kappa\acute{\alpha}\sigma\eta$, 23 (a sort of rough draught of the foregoing) the ι commonly omitted.

² *Bull.* l. c. p. 430; Wescher-Foucart no. 304, $\tau\rho\acute{o}\pi\omicron\iota \omicron\acute{\iota} \kappa\alpha \theta\acute{\epsilon}\lambda\eta$.

³ Cauer² no. 122 ff. The Delian inscr. *Bull. de corr. h. vi.* 6 ff. has $\alpha\iota$ and $\omega\iota$ correct, but never $\eta\iota$, instead either η or $\epsilon\iota$. Cp. the letters of the kings of Pergamos (middle of 2nd cent.), Domaszewski *Arch. Epigr. Mitth. a. Oest.* 1884, 95; Wilamowitz *Lect. Epigr.* [1885], p. 16: $\alpha\iota$, $\omega\iota$ regular, $\eta\iota$ with errors. As further examples I cite: *Bull.* iii. 290 (Cret. document at Delos; end of 2nd cent.) entire con-

fusion. iv. 50 (Abdera) $\Theta\rho\alpha\kappa\omega\nu$, $\eta\tau\acute{\epsilon}\iota\tau\omicron$; in other respects correct. *Ib.* 164 (Teos, middle of the 2nd cent.) $\Sigma\alpha\mu\omicron\theta\rho\alpha\kappa\iota\alpha\sigma\tau\alpha\acute{\iota}$. v. 42 (Phokis, after 181 B.C.) = *Dial. Inscr.* 1539, Dittenberger *Syllabus* 294, $\tau\hat{\alpha}$, $\tau\hat{\omega}$ etc.

⁴ Papyr. 24 (Dialectics) is correct in this respect, also 1 (Astronomy), where in other matters there are very bad orthographic blunders; it must be admitted however that it has, col. 14, $\tau\acute{o} \alpha\dot{\upsilon}\tau\acute{o} \upsilon\delta\omega\rho \tau\acute{o} \alpha\dot{\upsilon}\tau\acute{o} \tau\rho\acute{o}\pi\omega\iota$. Further, 15 (legal verdict); Pap. Taur. 1 (do.), but $\eta\tau\acute{\epsilon}\iota\tau\omicron$ col. 3; 7 and 8 $\theta\epsilon\dot{\iota}\eta\iota$; 9 $\epsilon\dot{\iota}\eta\iota$. This mode of writing occurs also on the Tean inscr. *Bull. de corr. h. iv.* 113, where $\epsilon\dot{\iota}\eta\iota$ appears line 50 and 65. The inscription shews Ionic forms but the style of the writing belongs to the 2nd cent. On another Tean inscr. Le Bas v. 86 (Rescript of King Antigonos, between 306 and 301), the constant writing $\lambda\eta\tau\omicron\upsilon\rho\gamma\epsilon\acute{\iota}\nu$ is noteworthy.

by comparison of dialects, the rights of *ι ἀνεκφώνητον*. In consequence of this there is at the present time much doubt on the subject, though the investigations of Usener especially have done us great service¹. In ancient times indeed many omitted the *ι* on principle as useless, as Strabo says, "many throw overboard the entire custom, as having no reason grounded on Nature²." The Latin transliterations also are instructive for the distinction of the pronunciation of the late period from the earlier. In words which were taken over at an early age *ωι* is treated just as *οι, ᾱι* with *ι ἀνεκφώνητον* just as *αι δίφθογγος ἢ ἐκφωνοῦσα τὸ ι: citharoedus, comoedia, tragoedia; Thraex*³. At a later period on the contrary the *ι* was not regarded: *ode, melodia, Thracia*. The Musicians however maintained against the Grammarians, that the letter was really pronounced, and only drowned by the preceding long vowel⁴, and to this perhaps may be ascribed the fact, that Dionysius of Halikarnassus on the subject of the Pindaric *ἀγλαία ἴδετε* speaks of the *ι*, which in pronunciation precedes the *ι* of *ἴδετε*⁵. For the rest the mute *ι* was written, so far as it was written, after as well as before in the same line with the rest of the letters, and it is not until manuscripts of about the seventh century that we meet with *ι* written a little higher or a little lower (*α'α_i*), not until those of the twelfth century with *ι subscriptum*⁶.

¹ Usener *Fleckeisen's Jahrb.* 1865, p. 236 ff. But *ᾠδε* without *ι* is shewn to be correct by the metrical inscr. *Bull. de corr. hell.* vii. 61 (Thessaly, poetical dialect; *σώιζων* in the same); *ἄνω κάτω εἴσω προτέρω* by the documents relating to the building of the Arsenal, C. I. A. ii. 1054, 78 f. 24, and the inscr. Röhl 552^a (Olympia).

² Strabo xiv. p. 648: πολλοὶ γὰρ χωρὶς τοῦ *ι* γράφουσι τὰς δοτικὰς, καὶ ἐκβάλλουσι δὲ τὸ ἔθος φυσικὴν αἰτίαν οὐκ ἔχον.

³ *Thraex, Thraecius, Thraecidicus* in Cicero (only *Sest.* 94 and *Rep.* ii. 9 with *a*; the writing with *e* is a cor-

ruption of that with *ae*).

⁴ Bekk. *Anecd.* iii. 1186: οἱ μουσικοὶ τῆς ἀκριβείας φροντίζοντες λέγουσιν ὅτι ἐκφωνεῖται μὲν, οὐκ ἐξακούεται δὲ διὰ τὸ μέγεθος τῶν μακρῶν φωνηέντων.

⁵ Dionys. π. συνθ. p. 162 R. παράκειται δὲ καὶ—τῷ ἀγλαίᾳ, εἰς τὸ *ι* λήγοντι, τὸ ἴδετε, ἀρχόμενον ἀπὸ τοῦ *ι*, comp. what is said 156 f. on Ὀλύμπιοι ἐπὶ; οὐ συναλείφεται ταῦτα ἀλλήλοις (the *ι* with the *ε*). σιωπὴ δὴ τις ἢ μεταξὺ ἀμφοῖν γίνεται κτέ.

⁶ Gardthausen *Gr. Palaeogr.* S. 193, 203. I found the *α'αι ω'ω_i* in a Papyrus ms. of about the 7th cent., see *Ztschr. f. Egypt. Spr.* 1880, p. 35.



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again written before a vowel, although not always¹, and has consequently been again introduced into the Attic authors. As the Grammarians reckon it among the diphthongs *κατὰ διέξοδον*, they in any case pronounced it as *üi*. And this pronunciation must be assumed for ancient times in all places where *υ* had become *ü* uniformly². For the simplification of *ει αι οι* before a vowel it is sufficient to mention a few facts. Thomas Magister quotes *τὰς ἡμισέας* from Thucydides, *θρασέα γυνή* was found in Philemon³; we ourselves write *πλέον τέλος*; Attic inscriptions shew *ἐπιμελέας πρυτανέας ιερέας* (from *ἐπιμελεία πρυτανεία ιερεία*) *Διομεεύς* and other instances⁴. *βραχέα* is Ionic for *βραχεῖα*, *ἐπιτήδεος* for *ἐπιτήδειος*; Lesbian *ἀλάθεα* = *ἀλήθεια*⁵; Doric *ἀσάλεα* = *ἀσάλεια*, *ἡμίσεα*⁶. The same holds good with *αι*: Lesbian has *Ἄλκαος Ἄλκαῖος*, Thessalian *Γεννάος*, in the Ionic Styra in Eubœa we find *Αἰσχράος Σπονδάος*⁷; old Attic *Ἀθηναία* passed through *Ἀθηνάα* to *Ἀθηνᾶ*⁸, *φιλαθήναιος ἔμπαιος δείλαιος Πειραιεύς* shew the *αι* shortened in Attic poets⁹, which comes to the same thing as the inscriptional writings *Πειραεύς Κυδαθηναεύς* etc.¹⁰ The case is different with *ἐλάα*, *κάω*, *κλάω* etc. Here perhaps *α* was original, which was simplified to *ā*, as *ωι* in *λώων* to *ω*, or again the *ā* may have been a mistake of the grammarians for *αι*, just as the supposed Attic *ἀετός*, which has no support from inscriptions, all of them shewing

¹ Pap. L. 61, col. 4 *προεληλυθυῖων*; 63, 2 *γεγονυῖων*. On Attic inscriptions also *υ* appears again during and even more after the 2nd century B.C., and in the period of the Empire this is much more frequent than the simple *υ*, Meisterhans, p. 47. Cp. also *υειδν* (Asia Minor) Sterret *Arch. Inst. of America* III. p. 331, *υγειου* (*υιοῦ*) Assos do. I. p. 85 (Christian).

² Cp. § 12 above.

³ Thuc. VIII. 8 (Thom. Mag. p. 172 R.); *ἡμισεας* is given also by our mss. except B (which has *ἡμισεας*). Philemon *Bekk. An.* 99, 24 (IV. p. 8 Mein., fr. 20 Kock).

⁴ Meisterhans, p. 31 ff. Examples

for *α ε ο* from old Attic inscriptions given by Cauer *C. Stud.* VIII. 268 ff.

⁵ Ahrens *D. A.* 100; Meister *Gr. Dial.* I. 90 f.

⁶ Ahrens *D. D.* 187 f.

⁷ Röhl *I. Gr. ant.* 372⁴ 352. Bechtel *Insch. d. ion. Dial.* 191¹¹, 153.

⁸ Meisterhans, p. 24, n. 138.

⁹ *Ar. Vesp.* 282 etc.; *δικαλαν* Kaibel *Epigr.* 95. Schol. Hephæst. p. 107 W. cites *Ἀθηναίων* from Eupolis (fr. 35 K.); *αι* and *οι* are especially frequent in Hipponax.

¹⁰ *C. I. A.* II. 50 *Κυδ.* twice; 573 *Πειρ.* four times with *α*, once with *αι*. Meisterhans, p. 25.

*αἰετός*¹. Lastly for *οι* the best known and most frequent example is *ποεῖν ποητής*, from which comes Latin *poeta*; *στοιᾶ* also became *στοᾶ*², and in the Attic poets scansion such as *τοιούτος, οῖος οἴει* with the first syllable short are frequent.

If then in their final development the diphthongs *αι οι ει* coalesced into the simple sounds \bar{e} (that is ancient Greek η), \bar{i} (*i*), \bar{u} , yet it follows from this fact of the alternation between *αι* and *α*, *οι* and *ο*, *ει* and *ε*, that so long as this took place so freely, the first elements *α ο ε* were still clearly present. A shifting also occurs in the converse direction: on inscriptions of the third century and on Papyrus we find written *βοιηδρομιῶν βοιηθόν ὀγδοίης*³, in Ionic are found *Δαναίη Παμφαίης Φαιεννός*, and *ει* stands for *ε* in *ἐννεία* and the examples, Attic and others, mentioned above⁴. Less frequently before consonants (*στ, σδ = ζ*); *παλαστή* in Attic, not *παλαιστή*⁵; *Γεραστός* and *Γεραιστός* in manuscripts⁶. *Τροζήνιοι* has inscriptional warrant⁷. Should any one on the other hand be inclined to

¹ Ἐλαῖαι, C. I. A. iv. 299^a, 7 (before 403); elsewhere with simple *α*, also iv. 53^a, 33 (B.C. 418). According to Caner C. Stud. viii. 270 the origin is *ἐλαι-ία*, cp. also on *αι = āi α* Wackernagel K. Z. xlvii. 278. For *κάω, κλάω* (Voemel *Dem. contiones* p. 36) we have no examples on inscript. (the mss. waver); on *αἰετός* Meist. p. 24, n. 142. The proper name *Ἀετίων* occurs as early as 4th cent. at Iasos (Bechtel *d. Inschr. d. ion. Dial.* 104, 16); but nothing obliges us to take the *α* in this case as long.

² *στοιᾶ* Ar. *Eccl.* 684, 688; *στωῖα* Mitylen, *Dial. Inschr.* 273; Curt. *Etym.*⁵ 216. Attic insor. have only *στοᾶ*, Meisterhans, p. 44, n. 384; *στοιᾶ* Chalkid. Ditt. *Syll.* 369, 25.

³ Meisterhans, p. 45 f.; *βοιηθόν* Pap. L. 27 (2nd cent. rather incorrect); *καταβοιῆς* by *δόη* on the Papyr. in Ionic dial. (p. 44, note 2), which I place in 4th cent. Also *Πραξινοίη* Bull. de

corr. hell. x. 340 (epitaph of a woman of Halikarnassus in Rhodes), *βοίηθος* Calymna, *Gr. Inscr. Br. Mus.* ii. 298, 9.

⁴ Bechtel *d. Inschr. d. ion. Dial.* no. 99 (Miletus); do. *Thas. inscr. in the Louvre*, p. 26, 28. *ει* for *ε* ceases according to Meisterh. p. 46 as early as B.C. 250, accordingly much earlier than *οι* for *ο*; M. refers this to the degeneration of the *ει* to a simple sound.

⁵ C. I. A. ii. 167, i. 321 f. etc.; also 834^b, 11; in 16, 33 *αι* in Köhler's transcription is only a mistake.

⁶ O. Riemann Bull. de corr. h. iii. 497.

⁷ Besides appearing on the snake-pillar at Delphi (cp. Thuc. i. 132) it is also constant, C. I. A. ii. 614; Wescher-Foucart, *Delph.* 4, 50; C. I. Gr. i. 106 (whence?); *Dial. Inschr.* 3014 (Megara). Coins shew *Τροιζ.* not before Empire, earlier *ΤΡΟ*, which points to *Τροζ.*, Foucart on Le Bas, ii. 33^a.

infer from the Attic Ποτειδεῖται from Ποτείδαια¹, that αι had the same sound as ε, the answer would be obvious, that Ποτειδαῖται is wanting in euphony and out of all analogy, and that in Ionic also ἐπιστέαται ἐδυνέατο were used instead of ἐπιστάαται ἐδυνάατο². In like manner we are not by any means to conclude from the censure which occurs in Aristophanes of an inelegantly broad pronunciation of κρέμαιο, that the elegant pronunciation was already at that time κρέμηο³, but rather that a drawling of the diphthong is the object of the reproof, or perhaps, since the latter is in this case followed by a vowel, a strictly diphthongal pronunciation as opposed to the more careless, which allowed the ι to become more evanescent. It is certainly possible to pronounce αι as well as ä in very different ways. For that αι was so early pronounced e and had become identical with η, appears to me in the face of the constant separation in script a pure impossibility, as also an identity of ει and ι, of οι and υ; a historical mode of writing running counter to the pronunciation is only possible, where there is a strict grammatical code, which at that period did not exist, and isolated blunders and shiftings make their appearance in spite of such a code, especially in the course of so many centuries. The only examples however which are brought are Ποτειδεῖται, a mode of writing which is as invariable as Ποτείδαια on the other side, and next in the third century a supposed inscriptional γένητε, which does not exist, as the right reading is ὅπως γένητ' ἐφρόντισ[ε⁴. This leads then to the

¹ C. I. A. I. 240, 241, 242, 244; but no less also in 238, where the no. of letters shews that Kirchhoff is wrong in supplying Ποτειδαι]ῖται. There is absolutely no example for the latter reading; for Ποτειδαί-, 236, can just as well be completed as Ποτειδαία (as in the preceding list, 235).

² Merzdorf C. St. VIII. 188; Caner do. 268.

³ Bücheler Rh. Mus. XX. 302; Aristoph. Nubes 870 ff.: ΦΕΙΔ.—εὶ κρέμαιο γε. ΣΩΚΡ.—ἰδοὺ κρέμαι', ὡς

ἡλίθιον ἐφθέγγατο καὶ τοῖσι χείλεσιν διερρηκόντων. Curtius argues against Büch. in Stud. I. 2. 275.

⁴ C. I. A. II. 379, 18, where Köhler reads γένητε φροντίς; cp. Rh. Mus. XXXVI. 617. In like manner v. Wilamowitz in the letter of Attalus to the priest of Pessinus (Domaszewski Arch. Epigr. Mitt. a. Oest. 1884, 95) c. 16 has corrected the ἐπιστραφήσεσθε κελνους of the editor into -σεσθ' ἐκ. (Lect. epigr. p. 16).

arguments to be drawn from elision crasis etc. The *αι* of most verb-endings is, as is well known, not only in Homer but also in the Attic comic poets and indeed in prose subject to elision¹. This fact is explainable without difficulty from the pronunciation *ai*: in the first place *λέγετα'εν* was pronounced as *κα'εν*² and as *Peiræus*; but afterwards the *a* of this *λεγετα'* was treated like that of *ταῦτα*, *λέγεται' εν* like *ταῦτ' εν*, though *κα* was as will readily be understood not in general allowed to shrink up into *κ'*, but here crasis was employed. If on the other hand it had been *legetē* (*λέγετη*, as in Bœotian), I see no possibility of the long vowel being elided. Further, crasis furnishes, as G. Curtius shews³, especially strong arguments for diphthongal pronunciation. *Καὶ εν* = *κάν*, *κα' εν* becoming *kān*; how could *kē εν* become *kān*? The same applies to *κακείνος*, *κάτα*, *κάστιν* etc. Now no doubt, where there is a frequent occurrence of a certain word-combination, a definite form of crasis might be handed down to a period, in which its elements, having in the intervening time suffered change, ought properly to give a different result: for instance *θάτερον* is good Attic, though the form in use there is no longer *άτερος* but *έτερος*. But this is clearly not applicable to the crasis of *καὶ* with any chance word beginning with *ε* or *ει*. For *οι* we have to consider, *μούστιν* from *μοι εστιν*, *μούδόκει*, *μούγκώμιον*, *σοῦδωκεν*, *καίτουστιν*, then *ὠζυρέ*, *ἐγῶδα*, also *θοίμάτιον* like *θαίματα*, all phenomena as easily comprehensible on the assumption that *οι* = *οι ο*, as they are absolutely incomprehensible supposing *οι* to be *ū*. With regard to the other dialects, giving a passing notice to the Lesbian diæreses such as *οῖδα οἴκην* (*οἴκειν*)⁴ I call especial attention to the Cyprian writing. This peculiar script, which is entirely independent of that of the ordinary Greek, being not an alphabet but a syllabarium, nevertheless expresses all the diphthongs in a manner entirely analogous to the ordinary script, a clear indication, that this was conformable to the pronunciation, and a

¹ E.g. Deinarch. 1, 40 *παρακρούονθ' ὑμᾶς* (according to cod. N and A pr.); 2, 3 *γενήσεθ' αὐτὸν* (according to N pr., A pr.).

² *κα εν* found in C. I. A. II. 50; on

the Ion. Papyr. (see p. 44, note 2) KEN i.e. *κ' εν* twice (I. 6).

³ G. Curtius *Stud.* I. 2, 277 ff.

⁴ Ahrens *D. A.* p. 106. Meister *Gr. Dial.* I. 96.

certain proof, that the pronunciation was diphthongal in Cyprus. For instance *u-i-ve-i aiFεί* (ἰεί), *ta-i τᾱ*, *pe-i-se-i πείσει* (i.e. *τείσει* from *τίνω*) (*η* is wanting), *ma-to-i Mâδοι*, *to-i τῶ*, *o-na-sa-ko-ra-u Ὀνασαγόραυ*, *a-ne-u ἄνευ*, *a-ro-u-ra ἄρουρα*.

SECTION 15.

Transformation of EI, AI, OI, in Bœotian.

The above however does not hold good for *all* dialects, and it is the Bœotian, in which we have already recognized the beginning of itacism in the case of H, that in the case of these diphthongs also has anticipated by centuries the development as it took place elsewhere. The Bœotian sound-system, as referred to the Æolic, shews the following changes:

Æol.	η	αι	ᾱι	ει	ηι	οι	ωι
Bœot.	ει	η	η	ι	ει	υ	υ.

These alterations however did not all arise simultaneously, and it is not till the inscriptions of the third century that we find them all complete. *ει*, wherever it is really $\epsilon + \iota$ and not $\bar{\epsilon}$, is in many cases in the earliest monuments and at a later period without exception simplified to *ι*; in those cases, where it maintains itself, as in *δανείον Δορκείδας*, *ηι* appears to be original, and accordingly we find also *ει* (= *ηι*) in such words, *μαντεία Ἀντιγενείος*¹. *AI* is retained in the earlier period, for instance the older coins of Thebes shew ΘΕΒΑΙΟΝ; only in Tanagra and Hysiaë *AE* is written for *αι* and *ᾱι* quite in the Latin manner: Ἀβαεόδορος i.e. -δωρος; ἐπὶ Ἀμεινοκλείαε². The old Corinthian writing also had this diphthong, there however the *E* was equivalent to *ει*; ΑΘΑΝΑΕΑ, ΠΒΡΑΕΟΘΒΝ

¹ Ahrens *D. A.* 185. Meister *Gr. Dial.* i. 223 f. *Δορκείδας* Orchomenos about 330, *Dial. Inscr.* 470 (ib. 502; as regards the formation cp. Meister in *Bezenberger's Beitr.* vi. 61).

² Foucart *Bull.* iii. 136; Meister

Gr. Dial. i. 238; Plataiai Lolling *Berlin. Monatsber.* 1885, 1031 no. 22 ἐπὶ Δαμασθένος. Terent. *Scaur.* vii. 16 K.: antiqui quoque Graecorum hanc syllabam per *ae* scripsisse traduntur.

'Αθανασία Περαιίοθεν¹; ΑΕΘΡΑ² also is found on a vase which is probably Attic; on the other hand the Thessalian Λαρισαίων on coins of Larisa comes not from Λαρισαῖος, but from Λαρισα(ι)εύς³. At Tanagra we find also corresponding to ΑΕ the writing ΟΕ for οι and ωι: Μοέριχος, Πολυαράτοε; even Priscian compares this Bœotism with Latin *oe*⁴. I consider ΑΕ ΟΕ as real diphthongs; for not only in Latin but also in Cymric (Welsh) there is a diphthongal *ae oe*, distinct from *ai oi*, though nearly approximating to them⁵; the Corinthian writing however corresponds exactly to the Oscan 𐌆Δ, 𐌆V, 𐌆 being the sound midway between *i* and *e*, just as 𐌆 expresses that between *o* and *u*.—Afterwards however the Thebans adopted the Ionic Η for αι, even before the introduction of the common alphabet, Τελεστηῆος, Ἄριστηχμος⁶, and this is subsequently the regular mode of writing everywhere in Bœotia⁷. At this time therefore *tē tīmē* was pronounced with the simple sound *ē* both in the dative singular and in the nominative plural; for *ἄι* and *ἄι* also at this time were not distinguished. οι on the other hand remains, if we except Tanagra, not only in the fifth but even in the fourth century, and even subsequently was not ousted by the simple writing *υ*⁸. On very late Bœotian inscriptions we find ει, which in other instances appears on these with the evident value of *ī*, alternating with *υ* as in *τεῖ*, Δὶ τεῖ βασιλεῖ (for βασιλεῖν pron. *basilī*), κῆ τῦ Τρεφωνί[υ] (or Τρεφωνί⁹?).

¹ Röhl I. Gr. ant. no. 20, 4, 5; cp. above, p. 29.

² C. I. Gr. 7746; on the other hand *Φόραε* (Ahrens I. 199, 3) is a wrong reading for *Φόραξ*, C. I. Gr. 7374, *Dial. Inschr.* 3127.

³ Fick *Dial. Inschr.* 360; Beer-mann, *Curt. Stud.* ix. 34, compares the two forms *Πελινναιέων* and *Πελινναίων* from *Πέλινα*.

⁴ Prisc. *Instit.* 1 § 53. *Κροῆσος* on a vase, probably Attic, C. I. Cr. 7756, Welcker *Alte Denkm.* III. 481 ff.

⁵ R. Lepsius *Standard Alphabet* p. 172.

⁶ Foucart *Bull.* III. 136, 140 (Röhl no. 300, *Dial. Inschr.* 700).

⁷ Accordingly it must be regarded as due to intermixture of the *κοινή*, that in the Theban Proxeny decree in favour of a Carthaginian (*Dial. Inschr.* 719) αι is written throughout.

⁸ Ahrens *D. A.* 194 ff., shewing the local differences; Foucart I. c. 133 and IV. 88; Meister *Gr. Dial.* I. 235.

⁹ *Dial. Inschr.* 382 ff. (Chaironeia), 429 f. (Lebadeia); these are all dedicatory documents relating to slaves. The example cited 429, *Τρεφωνί* Meist.

EI for OI occurs also sporadically in late Attic; οἴκει for οἴκοι occurs in Menander, *δυεῖν* is frequent, *τοῖς λοιπεῖς* is found on an inscrip. dating 100 B.C.¹ The Bœotians did not readily admit *υ* instead of *οι* before a vowel, e.g. in *Βοιωτοί*²; according to the Grammarians also *οι* not *υ* was substituted in Bœotian for *ωι*³. All this is very mysterious and perplexing. If the Bœotians finally pronounced *ti Di*, one cannot understand, why in the first word they always added the E, against the pronunciation and against custom. The EI must it would seem have been an attempt to imitate the sound, which appeared to their ear something like *ei*, just as in the Attic *δυεῖν*. If this is the case, we shall have for the foundation of this *ei* in a preceding stage a diphthongal *οι*, not a monophthongal *υι*, and we must suppose, that the early fluctuation between OI and Υ represents a fluctuation of pronunciation. For *οι* and *υ* are closely related to one another both in ancient Greek pronunciation and that of the *κοινή*, as we shall shew hereafter. But EI is confined to the endings: *ποιομένει* or *πο-ιομένει* = *ποιούμενοι*; in these endings (as indeed also in the stems) in Latin also *οι* has become *ei* (*i*); Nom. plur. *οι* -*ei* -*i*, Dat. *οις* -*eis* -*is*.—The view held by Curtius and Dietrich⁴, that in Bœotian *οι* first became *υι* and then *υι*, is contradicted both by the ancient OE, as also by the fact that ΥΙ was never written⁵, although, in accordance with the value of the Υ prevailing there, this would have been the adequate expression for *υι*.

(383 *οιῶν* stands for *υιῶν*, with omission of *υ*, which we meet with frequently elsewhere, *Μικόλος Εὐφροσόναυ* 386).

¹ οἴκει Herodian I. 504, 16; II. 463, 31. *Δυεῖν* on Attic inscrip. Meisterhans, p. 124. *Τοῖς λοιπεῖς* C. I. A. II. 467, 12 f. = Dittenb. *Syll.* 347. Cp. *Φαληρῆ*, p. 32, n. 2.

² *Βυωτῶν*, title of Athena Itonia, *Bull. de corr. hell.* IX. 430. The case form *τοῖ* can become *τυί* as well as *τοί*.

³ Ahrens D. A. 193 f.; Meister *Gr. Dial.* I. 249 f. The case will be

found to stand thus; *πατροῖος* etc. (*οι* before a vowel) was always found in Corinna; that in the same *τοί* for *τῶ* could have stood by the side of *ἐμύ τυ* (= *τοί, οι*) is not credible.

⁴ Curtius *Gött. Nachrichten* 1862, p. 495; *Grdz.*⁵ 706; Dietrich *Fleck-eisen's Jahrb.* 1872 p. 24. On the other hand Beermann (*Stud.* IX. 41 f.) decides for the transition *οι, υι*.

⁵ *Μέτυκος* is said to be found on one of the tablets of Styra (Röhl, no. 372²⁸⁰); see however Bechtel *Inscrip. d. ion. Dial.* p. 18 (no. 19⁷⁰).



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of the diphthongs $\bar{\alpha}\iota\omega\iota\eta\iota$, namely the Delphian manumission documents and the Egyptian Papyri. These writers of the second century were in perfect ignorance, where they ought to put ι and where $\epsilon\iota$, and wrote Εἶρις , τειμάς and conversely παραμινάτω and ἱερίς ¹, and if the Delphian masons at least left the short ι to itself, the Egyptians allowed this to be mixed up in the universal confusion, ἰμί and ἔστειν , συμφωνοῦσειν , ἦλειος , ὄτει , μείζονει ². There are however two exceptions. First a ρ following exercises a certain protective power over the E-sound, which is seen also in Latin and in modern Greek (ξερός); accordingly Σωτήρα and χέρα are written, just as ἔκεχηρία is found on an early Delphian record with what appears to be strict Doric η , for which however the Delphian dialect has $\epsilon\iota$ ³. Secondly the ordinary equivalent before vowels is η or ϵ , μηνιῆα πληάς παιδῆα οἰκηότης , πορέαν εὐθέας διδασκαλέα ⁴, and this holds its ground for a long time, so that e.g. in a decree from Byzantium of the time of Tiberius⁵, χρήας , πλήονας , ἐπιτάδηον ,

¹ Wescher-Fouc. no. 108, 435, 82, 365. Cp. Bull. de corr. h. v. 42, = Dial. Inschr. 1539, Dittenb. 294, Phokian official record from beginning of 2nd cent. (after 181 B.C., Dittenb.), in which Στίρι occurs (by Στειρίων) and κλαρωσί , and further what was said above on the final confusion of Bœotian $\epsilon\iota$ with ι .—For Athens cp. Meisterh. p. 38 f.

² Papyr. 1 of the Louvre, which is by no means the most incorrect, furnishes these and other examples. In the Papyrus published by H. Weil 1879, which contains fragments of Euripides and other poets, we find $\text{ἐπί}=\text{ἐπί}$, περεί , χάρειν (χάριν), βασιλείσσης , Κύπρειδος and others without number.

³ Σωτήραι (-ραν) C. I. A. II. 469, 22; III. 368; χέρα Papyr. L. no. 50 τῆ χερεί , χέρας , χερός (and χῆραν); 61 col. 5 χέρα ; do. Pap. Lond. (Wessely Wiener St. 1886, 203) XLIV. 11. Cp. ἄπῆρον

Scott Fragm. Herculan. p. 219 f. (col. 15, 29); but the same gives also δῆνα for δῆνα twice Append. xxxviii. l. 9 (Philod. π. θανάτου Δ col. xxxvii.). This calls to mind the Lat. i pingue, written $ei e i$.—Lat. $cyperus$ (-um) κύπε(ι)ρος ; but $Epirus$ $pirata$ etc.— Ἐκεχηρία Amphictyonic decree C. I. A. II. 545 l. 48, 49 (the H which was suspected by Ahrens has been confirmed for both places by U. Köhler and by myself); Εὐχήρου Delph. Dittenb. Syll. 198, 73.

⁴ The examples are from Pap. 1. both sides (on reverse side = Pap. 63, col. 2 χρίας). Μηνιῆαν Pap. 1, col. 15, wrongly read μηνικαν by editor and wrongly emended to μηνιαίαν ; cp. μηνιείους Pap. 61, col. 8.—At Delphi ἀνδρέον , γυναικῆον , Καλλικράτῆα etc.

⁵ C. I. Gr. 2060, Dial. Inschr. 3059. (Ἐπαινῆσθαι ib. not = ἐπαινεῖσθαι but a perfect, cp. Dial. Inschr. 3078, Dittenb. 216, 92 etc.) οἰκῆον πολιτῆαν (Amorg.) Bull. de corr. h. VIII. 445.

ἀσαμήωτον are written consistently. In like manner an inscription of Cos shews Καισάρηα, Ἀγρίππηα, Ἡράκληα, on the other hand Ἀπολλώνεια, Ἀσκλαπεία, Διονύσεια, Δώρεια¹, where the pronunciation was -ία, being in some cases original, in some cases owing to contraction, Ἀσκλαπίεια *Asklapīa*. For in those cases where this ει is preceded by an ι, either ιη can arise, as in μηνιήαν and Σαραπιήον on the Papyri, or again ī, as in vulgar ὑγεία (*hygīa*) instead of ὑγίεια, ταμείον instead of ταμιείον². There is no especial degree of consistency to be found in the Latin representation of ει before vowels; *Aeneas, Medea, Alexandria* and *Alexandria, Dareus* and *Darius, Clio, Iphigenia*; in words taken over at an early period shortening occurs: *platea, balineum βαλανείον*, in general even at a later period *e* predominates³. The uncertainty of the Greek pronunciation is sufficiently established by ἐπιτήδιος and ἐρμηνία on a Papyrus of Herculaneum⁴; in the times of Terentianus Maurus an *i* was heard in Greek in Μήδεια, Αἰνείας⁵, and this agrees with the fact that η is no longer written in such words on Attic inscriptions of the second century A.D.⁶ But that previously the E-sound predominated, may fit in with the fact, that ει from the earliest times had a tendency to lose the ε before a vowel. For the rest the simplification to *i* was already complete over the whole Greek speech-area before the beginning of the Christian era⁷, and

¹ Dittenberger *Syll.* 399, cp. 400 (where Ἀπολλωνεα occurs, as Ἐλευθεριεῖ for -ρεῖ -ρι Athens, Meisterh. p. 39).

² So also in late Bœotian Θεισπέλων i.e. Thispion for Θεισπιέλων, *Bull. de corr. h.* III. 385 = *Dial. Inscr.* 816.— Ὑγία Athens, Meisterh. l. c.

³ Cp. Priscian I. § 54 f.; K. L. Schneider *Ausf. Gr.* I. 69 ff.

⁴ Gomperz *Wiener Akad.* Bd. 83, p. 91 f.

⁵ Terentian. Maur. v. 441, 458.

⁶ Meisterh. p. 37, n. 306 (we must however notice here νεῖον = νηόν, ναόν on the Roman inscript. of Herodes Attikos, C. I. Gr. 6280, v. 96; also

ἀτρεῖες v. 77).

⁷ To avoid useless prolixity, I will only refer to the inscr. of Halæsa C. I. Gr. 5594, where ρεινός ρεῖνα occurs by the side of ρινός ρῖνα. On this point it must be remarked, that according to *Etym. Gud.* 30, 48 Aristarchus affirmed that ρεῖς was the spelling, on account of the derivation from ρέω; also θεῖς instead of θῖς on account of θείνεσθαι. As regards the supposed confusion of ει and η there is need of greater discrimination; for instance I cannot admit, that on the Pap. in Wessely *W. Stud.* 1882, 175 ὑπολήψεων ἐνεκα (sic) is = ὑπολεῖψεων (cp. ib. p. 196). Of von Herwerden's examples some may be

even if in the second century B.C. care and culture were still able to give not only ω and $\bar{\alpha}$, but also ϵ its due and no more than its due¹, nevertheless this soon ceased to be a possibility, and the distinction of ϵ and ι had become a *crua orthographica*². In many cases the resource adopted was to write ϵ in all cases for long i , as on the inscription of Byzantium, which has been cited, $\tauειμ\acute{\alpha}\varsigma$ and $\piολει\acute{\tau}\alpha\varsigma$ ³ regularly; this however never became a universal and fixed mode of writing, and the Grammarians, especially Herodian, took pains in the opposite direction everywhere to ascertain and carry out the historical method. Even at the present day an orthographic correction is nowhere more frequently necessary than in the case of ι and ϵ . For instance we write ι wrongly instead of the diphthong in the following words, $\acute{\epsilon}\tauει\sigma\alpha$ $\tauει\acute{\sigma}\omega$ and in all the derivatives of $\tauίν\omega$ ⁴; $\muει\acute{\gamma}\nu\upsilon\mu\iota$, $\muει\acute{\xi}\omega$, $\text{Μει}\acute{\xi}\acute{\iota}\alpha\varsigma$, etc.⁵, $\Phi\lambdaει\acute{\omicron}\upsilon\varsigma$, $\Phi\lambdaει\acute{\alpha}\sigma\iota\omicron\iota$,

explained grammatically, very many contain η for ϵ before a vowel (ρ); $\hat{\eta}\tau\alpha$ for $\epsilon\acute{\iota}\tau\alpha$ C. I. A. III. 39 is found in an inscription which is very imperfectly handed down; finally $\text{Χολλ}\acute{\eta}\delta\eta\varsigma$ II. 82 shews η for η .—In Latin there are certainly some examples, where the E sound has remained even when followed by consonants (*hypotenusa*, *Polycletus*).

¹ Of the Papyri of the 2nd century the following are correct and trustworthy in disputed questions: Louvre 2 (dialectics), 15 (judicial verdict), 22 (petition); Taur. I. (verdict). Also on inscriptions: Olbia C. I. Gr. 2058; *Delphi Bull. de corr. h.* v. 157 (State-record). The inscription of the Mysteries of Andania (93 B.C.) has only one blunder $\acute{\alpha}\pi\omicron\tau\iota\sigma\acute{\alpha}\tau\omega$ l. 78; for the writing $\epsilon\acute{\iota}\mu\acute{\alpha}\tau\iota\omicron\nu$ $\epsilon\acute{\iota}\mu\alpha\tau\iota\sigma\mu\acute{\omicron}\varsigma$ is conformable with the dialect. With regard to Attica in 2nd cent. see Dittenberger *Herm.* I. 414; Meisterh. p. 38, according to whom the confusion properly begins there about 100 B.C.

² Mar. Victor. p. 17 K. says, *orthographia Graecorum ex parte maxima*

in ista littera consistit. nam...et in quibusdam mediis interponitur verbis, ut "Αιδης, et in extremis, ut εϋχηι et πορεύηι, et dativis casibus adjungitur, quamvis non enuntietur; et eadem subjecta ε litterae facit longam syllabam ει.

³ In like manner e.g. C. I. Gr. 1798 (Epirus), 2059 (Olbia), 2335 (Tenos). Cp. Quintil. I. 7. 15 (cp. p. 10, n. 2 above); Priscian I. 50: *quam (ei diphthongum) pro omni i longa scribebant more antiquo Graecorum.* (Fairly regular in the Greek text of the *Monum. Ancyra.*)

⁴ Sauppe *de duobus titulis Tegeat.* (Gött. 1876); Blass *Præf. Isocr.* vol. II.

⁵ Examples in proper names are frequent; C. I. A. II. 575 $\text{Μει}\acute{\xi}\acute{\iota}\alpha\varsigma$; Kuman. Ἐπιγρ. ἐπιτ. 97 $\text{Μει}\acute{\xi}\acute{\iota}\acute{\alpha}\delta\omicron\upsilon$, 105 do., 102 $\text{Μει}\acute{\xi}\acute{\iota}\pi\pi\omicron\varsigma$, 1284 $\text{Μει}\acute{\xi}\acute{\iota}\delta\eta\mu\omicron\varsigma$; *Bull. de corr. h.* III. 575 $\text{Μει}\acute{\xi}\acute{\iota}\gamma\acute{\epsilon}\nu\eta\upsilon$, VI. 482 $\text{Μει}\acute{\xi}\acute{\iota}\gamma\acute{\epsilon}\nu\eta\upsilon$. Herwerden *Lap. Testim.* 29; Meisterh. p. 40. Many examples also for $\acute{\sigma}\acute{\upsilon}\mu\mu\epsilon\acute{\iota}\kappa\tau\omicron\varsigma$, Meisterh. p. 142, n. 1253; Riemann *Rev. de phil.* IX. 91; $\acute{\alpha}\mu\epsilon\acute{\iota}\kappa\tau\omicron\iota\varsigma$ Pap. L. 22 ($\acute{\epsilon}\pi\iota\mu\epsilon\acute{\iota}\xi\epsilon\iota$ 63, 8 and $\acute{\sigma}\acute{\upsilon}\mu\mu\epsilon\acute{\iota}\xi\alpha\iota$ 49 of small value as evidence on account of the incorrectness of this

Ποτεΐδαια, Εὐτειαῖοι and consequently also in εἶτεια (willow)¹, in the names of the letters πεί, χεί, ξεί, etc. Conversely we keep ει wrongly instead of ī in οἰκτίρω ὄκτιρα²; σιρός³; Σιληνός⁴; Κάμιρος Στάγιρος⁵; from the name of the deme Ἐρίκεια may be inferred ἐρίκη (heath). Besides ὑγεία and ταμείον, ἐπέικεια and πείν for πειῖν, *Hyginus ὑγιεινός*⁶ may be cited as vulgar modes of writing to be explained by the contraction of ι and ει. It appears then from so many indirect testimonies added to those which are direct (such as Quintilian's remark, that the Greek ει had the same value as the *ei* of the early Romans, that is to say long *i*⁷), and further from Latin equivalents, such as *Pisistratus Dinarchus*, that already in the Roman period, before our era, there was no distinction in pronunciation between ι and ει⁸. Let us now see, whether the state of affairs is even approximately the same in the case of the other diphthongs of a similar kind and first of all in the case of αι.

piece); letters of the Pergamenes (p. 49, note 3) *D*, 10 συμμείξαι. See also Curtius *Vb.*² 165.

¹ Meisterh. 39 ff.; G. Meyer² p. 128. Φλεοῦς inscrip. of Lagina, p. 59, note 1.

² Four examples for οἰκτίρειν; C. I. A. I. 463 (by means of which the fact was first established by Kirchhoff), *Suppl.* 477^c, 477^b, Röhl I. *Gr. antiq.* 325 (Thessaly). (On the other hand ἐποίκτειρον Epidaur. Inscrip. of Isyllus Ἐφημ. ἀρχ. 1885, 69 ff. l. 67, which with σώζοντι l. 70 serves as a proof, that the Philippos of the inscrip. is the son of Demetrius, and accordingly the inscrip. dates from the beginning of the 2nd cent., *Fleckeisen's Jahrb.* 1885, 822.)

³ Inscr. of Eleusis *Bull. de corr. h.* iv. 226; see also Voemel on Dem. viii. 45.

⁴ Numerous exx., for instance *Bull.*

de corr. h. ii. 570 ff. (Delos); Halik. ib. iv. 303; Messene (Σιλανός) ib. v. 151; Korkyra *Dial. Inscr.* 3220; see Meisterh. 43², 3 ff.

⁵ See the Attic tribute lists (Herwerden 25, 35, Meisterh. n. 357, 373). As regards μάγειρος the testimony is contradictory: ΗΟΜΑΓΙΡΟΣ Epidaur. Ἐφ. ἀρχ. 1885, 197; μάγειρος Corcyra *Dial. Inscr.* 3212; but μαγειρικόν C. I. A. II. 163, 28 (time of Lycurgus).

⁶ ἐπέικεια e.g. C. I. Gr. 2264 (Tenos); on πείν see Jacobs *A. Pal.* III. p. 684; Fleckeisen in his *Jahrb.* 1870, p. 71.

⁷ Quint. i. 7. 15 (see p. 10, n. 2 above). The passage of Nigidius in Gellius xix. 14. 8 is unfortunately corrupt.

⁸ This was recognized by Ceratinus (p. 3, n. 1 above) p. 374 ed. Haverc.

SECTION 17.

Later history of AI.

Outside of Bœotia the oldest example, which G. Meyer produces, for the confusion of *αι* with *ε ι η*, is *ἀναιερημένου* (i.e. *ἀνηρημένου*) by the side of [*ἀναι*]ραιρημένος on a Thasian inscription of about the fourth century¹. It is thought then, that the Ionians of Thasos said *αἰραίρημαι*, instead of *ἀραίρημαι* of Herodotus; but I can think of nothing more intrinsically suspicious, than a form which not only is very clumsy, but is not even really read (on the stone). It is certainly much more likely, that in this dialect too shortening has taken place, *ἀνεραίρημαι* or *ἀναιρέρημαι*²; in any case the example is isolated and not such as to warrant general inferences.

In the next place for the third century the Reuchlinians have that great crowning proof, the epigram of Callimachus, where Echo returns the words *ναιχὶ καλὸς* with *ἄλλος ἔχει*, that is *nechi-echi*³. The lines run according to the traditional reading, *Λυσανίη, σὺ δὲ ναιχὶ καλὸς καλός· ἀλλὰ πρὶν εἰπεῖν τοῦτο σαφῶς, Ἴχῳ φησὶ τις “ἄλλος ἔχειν.”* I however think with Henrichsen⁴, that Callimachus was far too subtle a poet, to present to us such an absurd Echo, as to repeat the words addressed in reverse order. Since moreover *τις* is unsuitable as applied to *Ἴχῳ*, we shall probably be right in accepting E. Petersen's⁵ emendation, *Λυσανίη, σὺ δὲ ναιχὶ καλὸς καλός·*

¹ Bergmann *Herm.* III. 233 (Bechtel *Inscr. d. ion. Dial.* no. 71). *Ἀναιερ.* stands there twice, ...*ραιρημ.* once. (To explain the Lesbian *αἴμισυς* = *ἡμισυς* from the orthographical representation of *ἡ* by *αι*, as is done by G. Meyer² § 37, 113, is more than questionable, since this dialect shews elsewhere not the slightest trace of such confusion, and it is evident that in *αἴμισυς αἰμιλονος Αλοδοδος* we have a peculiar phonetic development.)

² Bechtel supposes *ἀνα]ραιρ.* and sees in the 2nd form inner reduplication as in *ἠνίπαπον*.

³ Callim. *A. P.* XII. 28.

⁴ P. 134, ff.

⁵ E. Petersen *Progr.* Dorpat 1875; Schneider suggests *ἄλλον ἔχειν*. Wilamowitz *Hom. Unter.* 350 considers Echo as the reply which necessarily follows and denies any intentional jingle.

ἀλλὰ πρὶν εἰπεῖν τοῦτο σαφῶς Ἦχώ, φησί τις ἄλλος ἔχειν. Accordingly the mention of *echo* applies to the repetition of *καλός* and there is no longer any question of a harmony of sound between *ναιχί* and ἔχει. Should any one however prefer to take it as an instance of parechesis, nothing is easier than by reading φησί τις ἄλλος “ἔχω” to restore such between Ἦχώ and ἔχω. But a positive refutation can be given in the following manner. If in the time of Callimachus there was no distinction in the most cultivated court speech between the sounds *αι* and *ε*, in the vulgar speech of the second century there can have been absolutely no difference whatever. In that case however uneducated writers must of necessity confound *αι* and *ε* (or *η*) in the same degree, that they intermix *ει* and *ῑ*, *ο* and *ω* and so on. What then are the facts of the case? The somewhat incorrect astronomical papyrus in the Louvre has *ὄρᾱτε*¹ for *ὄρᾱται* once. The fragments of writing on the reverse side of the same shew no error. The same may be said of papyrus No. 23, where besides *ἔστειν* etc., *ἀσπασάμενος τὴν μάχαιραν* stands for *σπασάμενος* and *πίνοντες* for *πεινώσαι*. On the other hand on No. 43 we find *ἔρρωσθαι* for *-σθε* and *εἰδῆται*; on 40 *αγορασεδωκε* = *ἀγοράσαι ἔδωκε*, with which may be compared *χρῶνθ' ὡς, περιωκοδομηκέν' αὐτοὺς* on another Papyrus². On Weil's large papyrus³ *πιστεύσεται* stands for *-σατε*, *ἐκτέτατε* for *-ταται*, *βαίνεται* for *-τε*; for *του μεν ξεναικειν* for *τοῦ (τὸ) μὴ ἔνεγκεῖν*⁴ is an unintelligible corruption and cannot be regarded as evidence. And nevertheless these bungling copies bristle with the most crying confusions of *ει* and *ῑ* and such like errors. Accordingly it is quite plain that the *αι* of the verb-endings *-σθαι -ται* sounded in the speech of the uneducated like the *ε* of the endings *-σθε -τε*; but then these are cases, where the diphthong was from of old liable to elision and had no influence on the accent; the representation by *ε* not by *η* may be to some extent connected with this weakening. But we nowhere read *ἡμέρη* (*-ρε*) for *-ραι*, or *κῆ* (*κέ*) for *καί*, or *ῆρῶ* for *αἶρῶ*; on the contrary *ἔλαν* is the

¹ Pap. L. 1, col. 17, 11.

² Wessely *W. Stud.* 1886, 206.

³ Col. 5, 13; reverse side col. 4, 5, 19.

⁴ Col. 4, 17.

shortened form of ἔλαιον, as Σαραπιῆν of -πιεῖον¹; it is therefore quite impossible, that *αι* was at that time universally confounded with *ε η* and had ceased to preserve the *A*-sound. The contemporary inscriptions are perfectly free from examples of interchange, even those from² Delphi in other respects so incorrect; on those from Attica the confusion of *αι* and *ε* cannot be proved before the second century A.D.³ It may be mentioned that where in the period of the Empire *αι* is written as *e*, this is expressed not only by *ε* but also by *η*, for instance on an inscription from the Thracian Chersonese we find κή twice side by side with γυνεκή, Ἡφηστος⁴ on a papyrus. Dionysius of Halicarnassus furnishes an unmistakable testimony for the correct pronunciation of the Augustan period; he says that καὶ Ἀθηναίων in Thucydides is a case of harsh composition, since the sounds of the *ι* of καὶ and the *α* of Ἀθηναίων could not blend into one⁵. Demetrius the rhetorician declares the name Αἰαίη to have a particularly harmonious sound⁶, surely however not pronouncing it *eee*. In the next place the Grammarians describe *αι* in contra-distinction to *α* as ἡ *αι* δίφθογγος ἢ ἐκφωνοῦσα τὸ *ι*⁷, an expression which, to say the least of it, is very ill suited to *αι* = *e*; for in that case why should it not be ἡ *ισοδυναμοῦσα* τῷ *η*? This description caused even Aldus Manutius⁸ to recognize and insist on the distinction between the modern Greek pronunciation of the diphthongs and the genuine ancient sound.—If then in spite of all this the

¹ Pap. L. no. 31.

² That I may pass over nothing, I notice the Rhodian verse inscription Απαιλον (= Ἀπελλοῦ?) in Ἀθήν. III. 226. On the inscr. of Mylasa C. I. Gr. 2693^o (Rhodian money; no Roman names), 2693^f κέ, Ἀριστενέτου, Ἐπένετος do not occur at all; see more correct copy Le Bas v. 416, 414.

³ Meisterhans, p. 26².

⁴ Bull. de corr. hell. iv. 514; Kaibel Epigr. 372; Pap. L. no. 19. Cp. however p. 38, n. 1 above, p. 69, n. 2 below.

⁵ Dionys. π. συνθ. p. 167: ἡ τῶν φωνηέντων παράθεσις — διακέκρουκε τὸ

συνεχές τῆς ἁρμονίας καὶ διέστακε, πάνυ αἰσθητὸν τὸν μεταξὺ λαβοῦσα χρόνον. ἀκέραστοί τε γὰρ αἱ φωναὶ τοῦ τε *ι* καὶ τοῦ *α*, καὶ ἀποκόπτουσαι τὸν ἦχον.

⁶ Demetr. π. ἐρμην. § 69: πολλὰ δὲ καὶ διὰ μόνων τῶν φωνηέντων συντίθησιν (scil. ἡ συνήθεια) ὀνόματα, οἷον Αἰαίη καὶ Εὖιος, οὐδέν τε δυσφωνότερα τῶν ἄλλων ἐστὶ ταῦτα, ἀλλ' ἴσως καὶ μουσικώτερα.

⁷ B. A. p. 1214; more correctly elsewhere ἡ *αι* δίφθ. ἢ ἔχουσα τὸ *ι* ἐκφωνούμενον.

⁸ Cp. above, p. 2.



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—*o* (*u*): *plaustrum plostrum caudex codex, claudo cludo, Claudius Clodius*. Whoever then does not deny, that the Romans pronounced *au* as a diphthong, must allow to *ae* the value of a real diphthong. Moreover Varro by no means says, that the *writing* fluctuates between *sceptrum* and *scaeptrum*, but: *partim dicunt sceptrum, partim scaeptrum*, and we must interpret what precedes in accordance with this: *in pluribus verbis A ante E alii ponunt (in pronunciation) alii non*¹. Should the question be asked, why the Romans made *scaeptrum scaena* out of *σκῆπτρον σκηνή*, if they did not pronounce the sound as *skēna*, but rather as *skaena*, I suggest that these forms shew an intermediate form between the *σκᾶπτρον σκανά* of Magna Graecia, which the Romans received first, and the *σκῆπτρον σκηνή* of the *κοινή* which reached them at a later period. For although *η = e*, no Roman of ancient times thought of writing *Daemaetrius* or *thaesaurus*, but *ae* for *η* is confined to the two words in question, in these however and especially in *scaena* the writing is almost without exception. Diphthongizing has also taken place sporadically in *austrum = ostrum* (*ὄστρειον*) and in Latin words such as *ausculum* (*faenus faenum*); just as *ai—e*, so *au—o* lie very near together in sound, and foreign words adapted to popular use are especially liable to peculiar treatment². It is also worthy of mention, that Latin poets occasionally scan *Phaethon* as a dissyllable, by no means however with a pronunciation so remote from the original sound as *Phethon*; Quintilian calls this *συναίρεσις*³. At the period then, in which Latin *ae* became the simple sound, that is in the third and still more in the fourth century⁴, the Greek *αι* also had suffered the same fate⁵; but up to that time *αι* and *ae* may be considered to have preserved their

¹ See also Gellius xvi. 12. 8: (Varro) *M. Catonem et ceteros aetatis eius feneratorum sine a littera pronuntiasse tradit.*

² Prisc. i. 52; Seelmann p. 163 f.

³ Quintil. i. 5. 17: *quod συναίρεσιν et συναλοιφήν Graeci vocant—, qualis est apud P. Varronem: tum te flagranti*

deiectum fulmine Phaethon. Nam si esset prosa oratio, easdem litteras enuntiare veris syllabis licebat.

⁴ Corssen i.² p. 692 f. Seelmann 224 f.

⁵ In Coptic loan-words *ε* was written, Stern *Kopt. Gr.* 36.

character of double sounds, not indeed in the mouths of the people¹, nevertheless in the cultivated speech. The oldest testimony as regards $αι = \bar{e}$, corresponding to that of the later Latin Grammarians on ae as the lengthened form of the open \bar{e} , is to be found in the treatise of Aristides Quintilianus *περὶ μουσικῆς*, which is placed by some in the second, by others in the third or even the fourth century, but which judging by the names of those to whom the author dedicates it, Eusebius and Florentius, certainly cannot belong to the second². The evidence drawn by the followers of Reuchlin from transcriptions in the Septuagint is quite worthless. For the fact of *Bethel* being written *Βαιθηλ* and *Elam* *Αιλάμ*³ does not shew that $αι = e$, but rather, if indeed it shews anything at all, that Hebrew Tsere with Yod *quiescens* was represented by $αι$. In the first place it ought logically to have been written *Βαιθαίλ*, if the sound were the same in both syllables, and in the second place the combination of Cholem with Vau *quiescens* is perfectly analogously represented by $αυ$: *Αὐνάυ Οναν*, *Ναβαύ Νεβο*⁴. Finally this point too does not appear to me proven, that so early as the second century A.D. Herodian had given orthographic rules on $αι$ and ϵ ⁵. For why not also on η and $αι$? H was at that period certainly still e . There are moreover at the

¹ The wall inscriptions of Pompeii shew the greatest confusion, both between ae and e , and between $αι$ and ϵ . For example, sometimes *cinaedus* sometimes *cinedus*; no. 1684 *etati maeae*, *haberae*; 733 *ἐνθάδαι κατοικεῖ, μηδὲν εἰσειαίτω* (i.e. *εἰσιέτω, εἰσίτω*) *κακόμ* (here too it is evident that Lat. \bar{e} Gr. $\eta = \bar{e}$, Latin \bar{e} Gr. $\epsilon = e$, cp. p. 37, n. 5 above).

² Aristid. *π. μουσ.* p. 56 Jahn (93 Meibom.): *τὸ δὲ ἑθῆλυ μὲν ἐστὶ κατὰ τὸ πλείστον ὡς προείρηται* ("has a feminine character in contra-distinction to the masculine σ and the neutral α "), *τῷ δὲ τὸν ὅμοιον ἦχον ἐπιφαίνειν, εἰ ἐκταθείη, τῇ αἰ διφθόγγῳ, γραφομένη διὰ τοῦ αἰ, ἐπ' ἐλάχιστον* ("in a very slight degree") *ἠρρένωται*.—As regards the period of Aristides, cp. Jahn in the intro-

duction; what the latter says p. xxx. f. against Cæsar's argument from the names, has not the least significance.

³ Frankel *Vorstudien zur Septuaginta* p. 115; O. de Lagarde *Onomastica sacra*. *Βηθ-* (*Βεθ-*) is found for *Βαιθ-* in other names, but *-ηλ* (simple Tsere) is never written *-αιλ*.

⁴ Frankel *ib.* p. 116.

⁵ I must here run counter to the authority of Lenz, who tries to prove (Herod. p. ci.), that H. has given such rules, and who accordingly collects from the Byzantine writers everything having reference to this in the fragments *περὶ ὀρθογραφίας*, while he sets aside their rules on η -*ει*-*ι*, *οι*-*υ*, *ο*-*ω* (cp. p. cii. f.). But the proofs are neither numerous nor sufficiently strong.

present time hardly any instances of uncertainty of writing with regard to *αι* and the E-sounds. It is a ridiculous thing, that the name of the well-known Athenian, who fell at Marathon, is written *Κυναίγειρος* instead of *Κυνέγειρος*, in which latter spelling it gives the intelligible sense "urger of the hounds" and may be compared with *Κυνόρτας*. According to Moeris *tooth-ache* is in Attic *ἡμωδία*, in Hellenistic *αἰμωδία*¹; but the Attic form is perhaps an invention of someone who found the imperfect of the verb *αἰμωδιᾶν* written *ΗΜΩΔΙΑ*². The form *σημαία* (*standard*) for *σημεία* is erroneous: all the older inscriptions such as the Monumentum Ancyranum, and also the oldest manuscript of Polybius, shew either *-εῖ-* or, which comes to the same thing, *-ῆ-* or *-έ-*, which latter form explains the false *-αί-*³. The extraordinary contrast to the confusion in the case of EI -I is unmistakable.

SECTION 18.

Subsequent history of OI.

OI appears to have become confounded with *υ* at about the same time, that *αι* was confounded with *ε*. It had never been very far removed from this sound; if the attempt is made to

Steph. Byz. Ἀβάκαινον: πόλις Σικελίας, οὐδετέρως καὶ προπαροξυτόνως, καὶ ἡ παραλήγουσα διὰ διφθόγγου, ὡς Ἡρ. ἐν ἰγ̄ περὶ οὐδετέρων. Are these the ipsissima verba of Herodian, or has he not rather merely set Ἀβάκ. under the neuters in *-αινον*? Theogn. XII. 26 (Lenz II. 409) etymology of *χαίτη* from Ἡρ. ἐν τῇ ὀρθογραφίᾳ. Is it really likely that he intended by the etymology (from *κρατῶ κράτη*) to guard against the barbarous writing *χέτη*? P. 410, an etymology of *ἄχρι* is cited from the same work. Eustath. 1392. 23 (L. ib.) on *γαιήοχος* and *γεοῦχος* *γιοῦχος*, from Didymus and Herodian. This is an isolated case if one at all. The 4th passage (Jo. Alex. 18. 23)

Lenz himself ceases on mature consideration to reckon as belonging to the fragments of Herodian. And now with these compare the abundance of instances, even out of *περὶ μονήρους λέξεως*, in the case of *ει -ι, α -α* etc.! In the same way Marius Victor. (see above p. 62, n. 2) says that the orthography of the Greeks had to do for the most part with *ι* mute and *ει*; there is no mention of *αι*.

¹ Moer. 198. 15; *αίμ.* is in many cases the traditional reading in Aristotle.

² Timokles in Ath. vi. 241 a uses the form *ἡμωδία* in such a context, that any one might well take it for the substantive.

³ Dittenberger *Syll.* p. 489.

pronounce *οι* really with the closed *ο*, as must be done in accordance with what has been said above, the small interval separating it from *ü* will be remarked. Consequently Eustathius may be right in seeing intentional alliterations in the Homeric *Σκύλλη κοίλης, Χάρυβδις ἀναρροιβδεῖ*¹, and there is a close connection between words like *λοῖγος λυγρός, κοίρανος κύριος*². Accordingly there is no more need to assume any intermediate step, in order to explain the common Greek transition of *οι* to *υ*, than to assume such a step between *αι* and *ε*. The transition through *υι* assumed by Curtius and others was destitute of actual traces even in Bœotian; that through *ö* must be decidedly rejected both for that dialect and for the Greek dialects taken as a whole³. For it is always open to suspicion to enrich a language with a new sound taken from other languages; moreover *ö* that is the sound intermediate between *ο* and *ε* is no nearer to *οι* than is *ü*, which forms the middle point between *υ* and *ι*. Latin *oe*, by which *οι* is regularly represented except in *Troia* and *anquina* (*ἀγκοῖνα*)⁴ which were taken over at an early date, was in my opinion⁵ just as much as *ae* and for as long a time as the latter a real diphthong, but afterwards passed not like *ae* into an open but into a closed *e*⁶. Whether it was at any intermediate period *ö*, I do not venture to decide; still it seems dangerous even here to assign this special sound to such an extremely small number of words in the language. As regards the time of the transition of *οι* to *υ*, we find isolated examples of the simple spelling so early as a papyrus of the second century B.C., but only where it is accompanied by very negligent orthography and grammar: *ἀνύγετε, ἀνγύω*⁷. The later inscriptions in general interchange *οι* with *υ* in the same degree as *αι* with

¹ Eustath. on *Il.* A. 406, *Od.* μ. 104 (long ago cited by the followers of Reuchlin).

² Curtius *Etymol.*⁵ p. 658 f.

³ This transition is favoured by Beermann, *Curt. Stud.* ix. 41 f.

⁴ On *anquina* see Boeckh *Seewesen* 152.

⁵ K. L. Schneider *Gramm.* i. 1, 77,

Seelmann *Auspr.* 226 f. hold the same view.

⁶ This is shewn by its representation in Romance by *e* (*Diez Gramm.* i.² 170), while *ae* corresponds to Romance *ie*; *oe* and *ē* are treated entirely alike, and *ē* was closed, Schuchardt *Vulgärlatein* iii. 151. Seelmann 227.

⁷ Pap. L. 50 (160 B.C.), 51.

ε η¹; the orthographic rules on *οι υ* belong to the period of the Byzantine writers²; this statement however according to what has been said before applies equally to the case of *αι ε*. *οι* has shared with *υ* the fate of becoming first *ü* and finally *i*.

SECTION 19.

Pronunciation of genuine ΟΥ.

Of the three corresponding diphthongs with ~~ϙ~~, ΑΥ ΕΥ ΟΥ, we have already had occasion to treat of the rarest and the first to disappear, namely *ου*. It is self-evident that its second element was *u* not *ü*, and that accordingly simplification took place by *ἐπικράτεια* as in the case of *ει*. An *ου* occurs as is well known in old Latin (*douco, ious*), in old German, in English, in Portuguese and other Romance dialects; it is nearly related to *au*, which arises from³ it as in German, or forms its origin as in Portuguese, *cousa ouro*⁴. This *ου* however is related rather with the Greek *ωυ* (*ου*) than with *ου* (*ου*); moreover in the case of the latter there is hardly any appearance of contact with *αυ*⁵. The genuine diphthong *ου* is found in *οὐ, οὗτος τοῦτο* etc., where it is formed by the addition to *ο* of the same *υ*, which in *αὕτη ταῦτα* produces with *α* the diphthong *αυ*; also in *τοιούτος τοσοῦτος τηλικούτος*; next in *σπουδή* (cp. *σπείδω*), in *ἀκόλουθος* (cp. *κέλευθος*), in *βούης* (*βούτης*) *Βουτάδης*, in *δοῦλος* (written so in Bœotian too, not *δῶλος*), in *Σούνιον*⁶, *ξουθός στρουθός*

¹ Λυπά νεοπυῶν πεπύημα C. I. Gr. 2824, 2826 Aphrodisias; ἀνῶξαι ἀνύξι Cephallenia C. I. Gr. 1933; ἀνύξας by γυνεκί and κή Bull. de corr. hell. iv. 514 (Thracian Chersonese). οἰπὸ Lyd. 126 A. B. ib. viii. 378. The earliest example from Attica is Ποιανεψιῶνα (about 238—244 A.D.) Meisterh. p. 46².

² Even according to Lenz, Herod. i. p. ciii., who allows the possibility of an exception only for certain words such as *δροίτη δρύρη*. In *B. A.* p. 1204

(L. ii. 645, 13) Herodian speaks of the pronunciation (*ἐκφωνεῖσθαι*) of the *ι* in *οι* in contrast to its silence in *ωι*.

³ Cp. p. 7 above.

⁴ Diez Gramm. i.³ 171, 379.

⁵ In the Athenian tribute lists the forms *Αύλιᾶραι* and *Ούλιᾶται* interchange in a Carian name.

⁶ Cauer C. Stud. viii. 258 f.; ΔΟΥΛΙΟΝ C. I. A. i. 333; on Gortyn. Inscr. it is true we find ΔΟΛΟΣ.

etc.¹; all these instances rest on the testimony of ancient, especially ancient Attic, inscriptions, which continue to distinguish *ou* and *ō*. It must be admitted, as we have said before, that the line of demarcation is not exceedingly sharp, and accordingly we find both ΤΟΤΟΝ τοῦτον and ΒΟΝ βοῦν², and in the case of ΦΡΟΥΡΟΣ ΦΡΟΡΟΣ³ (from προφοράω) it is difficult to say which is correct. In ἄρουρα the genuine diphthong is shewn by the Cyprian writing *a-ro-u-ra*⁴.

SECTION 20.

Pronunciation of ΑΥ ΕΥ.

There remain ΑΥ ΕΥ, diphthongs, whose fate was notably different from that of all the others, inasmuch as here there took place not a simplification, but a hardening of the second element into a consonant. The Greeks of the present day pronounce them as *av ev* before vowels and soft consonants (βγδ, λμνρ, ζ) that is according to their usual writing *αβ εβ*, but before hard consonants (πκτ, φχθ, σ)⁵ *af ef*, = *αφ εφ*, e.g. ἐβεργεία, ἔβδιν (εὔδειν), ἀφτός, ἔφκολος, ἔφκρατος etc. This sound-development forms a decisive proof, that in ancient Greek the *v* in this diphthong, at least in general, had preserved its original *U*-sound free from modification⁶, and accordingly must be transliterated by *au, eu* and not by *aü eü*. For the development of *v* from *ü* would be as difficult as that from *u* is easy. At the same time in the case of *ευ* traces are not entirely wanting of a modification of the second element: *ευ* interchanges with *ει* in Ἰλεύθια Ἐλεύθια Ἐλευθώ⁷; further we find on an inscription of

¹ Ξουθίας ancient Doric (Sparta?) Röhl no. 68; Στρουθίης also with ΟΥ Styra Röhl 372³⁵⁵.

² Inscrip. of Eleusis C. I. A. iv. 27^b, 40.

³ Dietrich in *K. Zeitschr.* xiv. 56; Cauer l. c. Also in the late inscrip. C. I. A. iv. 22^a ΦΡΟΥΡΟΝ and ΦΡΟΡΙΑΕ side by side. Cretic φρώριον, *Bull. de corr. hell.* ix. 8, l. 8.

⁴ Inscrip. of Idalion. *Dial. Inscr.*

60 B, 20.

⁵ Before *σ* only in cultivated pronunciation; the popular pronunciation is *ps* (see Appendix).

⁶ The same opinion is held by G. Curtius, G. Meyer and others.

⁷ Ἐλευθύλας Cret. (Le Bas v. 67, 74, *Bull. de corr. hell.* iii. 293, l. 13), Ἐλευθώ in the Anthology (*A. P.* 7. 604, 9. 268), Ἐλευθία Ἐλευσία Sparta *Mith. arch. Instit.* i. 162, Dittenb. *Syll.* 191.

Mantineia belonging to the first century B.C. αἰτάν and ἐπισκειάν, side by side with frequent instances of αυ and ευ¹. The Ionians however were so far from tending to such a pronunciation, that in the fifth fourth and third centuries they wrote with more or less consistency ΑΟ, ΕΟ: ταῶτα, αὐτός, Καοκασίων, Εὐελθών, λεοκοῖς². This need imply no difference of pronunciation from the Attic, for αυ could be equally or more correctly represented by αο i.e. αο̄ as by αυ i.e. αῡ, and this mode of writing was also made easy by the treatment in Ionic of original εο, which became in pronunciation and for the most part also in writing ευ: καλεῦντες, ἐποίευν. There is an isolated instance of εου, Εὐρυσθένεους from Samos³. This very contraction into ευ was in many places usual in Doric⁴, and wherever it occurs furnishes a proof, that in the district in question ευ was not εῦ. αο also in many places became αυ: Arcadian and Cypriot -αυ in the Gen. of the 1st Declension; Σαυκράτεις Σαύμειλος Πραύχα⁵ in Bœotian, from Σαο-, Πραόχα. The Ionians on the other hand made αο first into ηο then into εω: πολίτεω, λεώς, χρεώμενος, certainly implying a sort of diphthong (ε̄ο), since this εω decidedly resists separation into two syllables⁶. The process is this, the second vowel is lengthened and approximates to α, while the first loses some of its α-sound and is shortened. In the Doric Ἐρμοκρηῦν Τιμοκρηῦν from Ἐρμοκρέων we have the converse process⁷. But, to close this digression; the close relationship of ευ αυ to corresponding combinations of an O-sound is sufficiently made clear, and to return to the point from which we started, the value of this υ has been thereby established as distinct from the ordinary

¹ Le Bas II. 352¹, 35, 27.

² Erman in *Curt. Stud.* v. 294; C. Curtius *Progr.* Wesel 1873; Hausoullier in *Bull. de corr. hell.* iv. 51; G. Meyer² p. 135 f. The examples are from Chios, Samos, Erythræ, Halicarnassus and other towns of the Asiatic mainland (also a coin of the Doric Cnidus has Εδβωλος, Hauss. l. c.); from Phanagoria C. I. *Gr.* 2121, Εὐπάμονος, Amphipolis (ib. 2008). The Ionic papyrus so often mentioned has υ always, but omissions of the preceding

vowel are notably frequent, 1. 4 τυτοσαυτο = ταῦτοσαυτοῦ, 6 ενθυτα = ἐνθαῦτα, 9 ικετυουσα, also 14 κελυει.

³ Bechtel *Inscr. d. ion. Dial.* 217. B. would also explain thus (p. 58) Ἀριστοκλέους (Thasos) no. 72, cp. p. 35, n. 4 above.

⁴ Ahrens *D. D.* 213 ff.

⁵ G. Meyer² p. 136; Πραύχαε Röhl no. 127, who explains rightly.

⁶ G. Meyer² p. 148 f.

⁷ Cauer *Del.*² 169.



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the first place then on archaic Cretan inscriptions also we find as a rule *av* *ev*, and on the Gortynian law code without exception. In the next place examples are not wanting of a writing which was evidently in a state of fluctuation, corresponding to the instance cited Ἄχιλλεούς, for example ἀμεφύσασθαι [ἀ]φυτάν¹, just as an old Naxian inscription also shews AFVTO αὐτοῦ, an example of F in Ionic to which exception has long been taken though to no purpose². Now this fluctuation points to the fact, that the sound *au* was adequately represented neither by *av* i.e. *aii* nor by *aF*. In the third place it may be erroneous to give to the F the value of the English and Romance *v* and not rather that of the English *w*, which as is well known belonged to the Latin *v*. For on a later Cretan inscription, dating from the time when the digamma was disappearing, *υέργων* i.e. *φέργων*, *ἔργων* is found repeatedly, and the name of the town Axus, properly *Φάξος*, appears more than once as *Ῥαξος*; while on the other hand it is true, that the sound might be thickened to a spirant, written *β*, instead of being resolved into a vocalic syllable: *διαβειπόμενος*, *Βολοεντίοι* = *Ῥλοντίοι*³. Moreover, the digamma, had it had the fixed sound of *v*, would hardly have disappeared so generally from the language, nor indeed would it have been likely to have existed in it before, as the only spirant of this sort, without *f* etc.: but conversely, if it was a semivocalic *u*, and the language in general gave up the *u*-sound, it is easy to understand, that it did not follow suit in undergoing the change to *ii* and consequently had to disappear. Accordingly there will be to a certain extent a connection between this sound-change and the disappearance of F, and we also see dialects such as the Bœotian retaining

¹ ib. 204, 221 (cp. the doubtful TITΟΥΦΕΣΘΟ 157, while in 215 we have TITΟΥΦΤΟΣ, 208 TITΥΦΟΣ).

² Rohl no. 408 (the reading quite certain). Many attempts at explanation have been hazarded (as by Rohl), see however Bechtel *Inscr. d. ion. Dial.* p. 39. A new instance of F in a Naxian inscription has lately come to

light: *Bull. de corr. hell.* 1888, 464: ρϑΔΙΤϩΑ>|Ϟ|ϩ *Φιφικαρτίδης*.

³ *Υέργων* Comp. II. 678, col. II. l. 5, 8; *διαβειπ.* 659, no. 21, 11; on *Βολοεντίοι* Meyer² 233. Cp. also Eretria *Ἐφημ. ἀρχ.* 1888, 83 ff. l. 171 c *Ῥαλιδλο[v] nom. proprium = Φαλιδλου (Ἡλείου)* while ib. 182 *λ* it is written *Ἀλιδλου*.

the digamma with the true *u*, while those like the Attic and Asiatic-Ionic gave both of them up at an early period. If now the digamma was a semivowel, no inference can be made from the writing $\alpha\Gamma \epsilon\Gamma$ for a modern Greek pronunciation, any more than in the case of the Oscan, which writes the corresponding diphthongs regularly *av ov*, that is to say with the semivowel¹. The interpolation of a digamma or of a β representing a digamma after $\epsilon\nu$ when followed by a vowel which occurs regularly in Cyprus and occasionally in various localities:— $\text{Εὐ}\Gamma\acute{\alpha}\gamma\omicron\rho\alpha\varsigma$, $\text{Βακεύ}\Gamma\alpha\varsigma$ Bœot., $\text{Εὐ}\beta\alpha\nu\delta\rho\omicron\varsigma$ Dodona, $\text{Εὐ}\beta\acute{\alpha}\lambda\kappa\eta\varsigma$ Lakon., *e-u-ve-r-(e)-ke-si-a* $\epsilon\underline{\nu}$ εργεσία, *e-u-ve-le-to-to-se* $\text{Εὐ}\acute{\epsilon}\lambda\theta\omicron\nu\tau\omicron\varsigma$ Cypriot², admits of easy explanation. For in this case a semivowel *v* was developed out of a *u* just as easily as a semivowel *y* from an *i*, which likewise appears in Cyprus: *a-no-si-ja* ἀνοσία, and in neighbouring Pamphylia, where two *i*'s are written: ΔIIA , $\text{Ε}\Sigma\text{T}\text{F}\text{Ε}\Delta\text{II}\text{T}\Sigma$ Ἀσπένδιος. The same holds good naturally not only of $\epsilon\nu$ but also of $\nu = u$; hence we have in Cyprus *tu-va-no-i* $\delta\nu\Gamma\acute{\alpha}\nu\omicron\iota$ i.e. *διδοίη* (formed from ΔT instead of ΔO), and on a Chalcidian vase $\Gamma\alpha\rho\nu\Gamma\acute{\omicron}\nu\eta\varsigma$ $\Gamma\eta\rho\nu\acute{\omicron}\nu\eta\varsigma$ ³. In case however any should be inclined to infer from what has been cited, that the ν of these diphthongs tended from an early period in these dialects to harden into a consonant, it must at least not be forgotten, that it was precisely in the Cyprian dialect that the customary pronunciation was really diphthongic; for the manner of writing is *pa-si-le-u-s(e)* βασιλεύς *o-na-sa-ko-ra-u* Ὀνασαγόραυ. The Cyprian dialect also shews by the coexistence of forms such as *e-v(e)-re-ta-sa-tu* and *e-u-v(e)-re-ta-sa-tu* ($\acute{\epsilon}\Gamma\rho\eta\tau\acute{\alpha}\sigma\alpha\tau\nu$, $\epsilon\underline{\nu}\Gamma\rho\eta\tau\acute{\alpha}\sigma\alpha\tau\nu$ i.e. *ὠμολόγησεν*, from $\Gamma\rho\eta\tau\alpha = \acute{\omega}\mu\omicron\lambda\omicron\gamma\iota\alpha$, $\rho\eta\tau\rho\alpha$)⁴, how Lesbian $\alpha\underline{\nu}\rho\eta\kappa\tau\omicron\varsigma$ for $\acute{\alpha}\Gamma\rho\eta\kappa\tau\omicron\varsigma$ ἄρρηκτος, $\text{Εὐ}\rho\nu\sigma\acute{\iota}\lambda\alpha\omicron\varsigma$ for $\text{Ἐ}\Gamma\rho\nu\sigma$.⁵, and similar instances are to be explained. In these the

¹ B. Kruczkiewicz, *d. altlat. u. oskische Diphth. ou*, *Ztschr. f. öst. Gymn.* 1879, 1 ff.

² *Dial. Inschr.* 648, 458 (cp. 1040, 1146); Karapanos *Dodone* Tab. 34, 3; *Mitth. d. archaeolog. Inst.* i. 231; *Dial. Inschr.* 71, 165 ff. (cp. *e-u-va-ko-ro* $\text{Εὐ}\Gamma\alpha\gamma\acute{\omicron}\rho\omega$ 153 ff., *e-u-va-te-vo-se* $\text{Εὐ}\acute{\alpha}\nu\theta\epsilon\omicron\varsigma$ 161 ff.). On the other hand

$\acute{\alpha}\rho\iota\sigma\tau\epsilon\underline{\nu}\tau\omicron\nu\tau\alpha$, Corcyra R. no. 343, may just as well be an error for $\acute{\alpha}\rho\iota\sigma\tau\epsilon\underline{\nu}\tau\omicron\nu\tau\alpha$ as for $-\acute{\epsilon}\underline{\nu}\Gamma\omicron\nu\tau\alpha$.

³ Inscr. of Idalium, *Dial. Inschr.* 60 (Cauer² no. 472) l. 6; C. I. Gr. 7582.

⁴ Idalium l. c. 4, 14.

⁵ Ahrens *D. A.* p. 37; Inscr. of Eresus, *Dial. Inschr.* 281 c.

F was changed into a vowel before the *r*, for which process the Cyprian writing contains the middle step; the *υ* however must by no means be considered as the representation in writing of a digamma still heard in pronunciation. In many cases a digamma in the middle of a word also has in the dialects become combined with the preceding vowel into a diphthong: e.g. Cyprian *ke-ne-u-vo-n(e)* *κενευφόν κενευόν* (*κενεόν*), Lesbian *ναῦος* (*ναός*), *αὔως* (*ἠώς*), *εὐάλωκε*, Homeric *εὔαδε*, *αὔιαχοι*; Apollonius Dyskolos bears witness, that in *εὔαδε* and *ναῦος* the following *υ* combined with the *εὔα* into a syllable¹, he accordingly analysed *εὔ-αδε*, i.e. *eu-ade* not *ev-ade*. It is true that, if the *ευ αυ* in such words were scanned short occasionally, as in *αὔατα* in Pindar and *αὔειρομένοι* in Alcman², the pronunciation could hardly be other than *avata* etc.³; why then are they written with *υ*? But we have not the slightest proof, that in these cases the poets themselves did not really use the digamma; subsequent copyists have in general as far as possible removed the antiquated symbol from the texts. For the rest *αυ ευ* were neither at the end nor the beginning of a word readily shortened, in marked contrast to the corresponding diphthongs with *ι*; the examples cited with shortened *ευ* *θηρεῦει* and *εὔωνος* are only from the rustic Hipponax⁴, and but little can be added from the authors that have come down to us: *ἰχνεύων* in Pindar, *Ζεῦ ἄλεξήτορ* in Sophocles⁵. Yet, if the pronunciation were *ἄυ ἔυ*, the syllable must have been scanned short where a vowel followed not in isolated instances but always and without exception. How comes it then, that a learned man like Bursian⁶ declares, that he finds no evidence, that the ancient Greeks did not pronounce *αυ* and *ευ* as *av* and *ev*? The Greeks of to-day pronounce *εβο* and *ενο* precisely alike; the ancients are said *si dis placet* to have done the same,

¹ *Κενευφόν Dial. Inschr.* 20; Apollon. *π. ἐπιρρ.* p. 559. 29 (p. 149 ed. Schneider-Uhlig); see Giese *Aeol. Dial.* 272.

² In the Egypt. frg. col. 2, v. 29. Also in Alcæus frg. 41 Bergk *ἐγχεῦε* is handed down, Athen. x. 430 α, although in ib. 430 c. xi. 481 α *ἐγχεε*.

³ Curt. *Etym.* ⁵ 569.

⁴ Schol. Hephæst. p. 107 Westph.

⁵ Pind. *Pyth.* 8. 35; Soph. *O. C.* 143. So also *Ζεῦ Ὀλύμπιε* in the verse in Röhl no. 75.

⁶ *Verhandl. der Philologenvers. im Frankfurt am Main* (1861) S. 187.

but their poets have obstinately scanned the one as a Pyrrhic the other as a trochee. If then Bursian finds no evidence, this must not be ascribed to any real lack of material; whoever will take the trouble to cast about him, will find on this very point *embarras de richesse*. It would moreover be absolutely monstrous, if the pronunciation were as in modern Greek, that the Grammarians should so consistently reckon *av ev* as diphthongs, although they do not regard *aβ εβ* as diphthongs; and they are not only counted as diphthongs, but as genuine diphthongs, different from *υι*, and not only as genuine diphthongs, but actually as diphthongs *κατὰ κράσιν*¹. Whoever continues to see no impossibility here, but still hopes to find a way out of the difficulty, may proceed to explain how *φεῦγε*, *Ζεῦ*, *βασιλεῦ* etc. can have the circumflex accent. And why is **ΑΥΤΟ** to be *af̄tu*, **ΤΟΥΤΟ** on the other hand not *toftu* but *tutu*? Or how can the Rhetor Demetrius note the euphonious character of the name *Εὔιος*, because it consists entirely of vowels up to the last letter²? Of what avail against all this are such poor arguments as that drawn from **ΑΥΤΟ** and the writing *ᾱτοῦ* and *ε̄ατοῦ* common after the 1st century B.C. for *αὐτοῦ* and *ε̄αυτοῦ*³, which it is alleged can only be comprehended by supposing the pronunciation to have been *avtu* and not *autu*? As a matter of fact this word being troublesome and difficult to pronounce considering its frequency was very naturally made easy in the popular speech and finally lost even the *a* (mod. Gr. *τοῦ τῆς* etc.): but the most obvious mitigation of its difficulty even if the pronunciation were *autu*, could only be the rejection of the *u*. In the same way in popular pronunciation the German name *Auguste* loses its *u*, in late Latin too we find *Agustus*, *Cladius*, with which we may compare *Agosto* and *Zaragoza* (*Caesaraugusta*) and Italian *Metaro* and *Pesaro* (*Metaurus*, *Pisaurum*)⁴. Accordingly *au* can very easily produce *a*;

¹ Cp. p. 22 above.

² Demetr. π. ἐρμην. § 69 (see p. 66).

³ So in Greek text of Monum. Ancyrr.; further instances from Delos *Bull. de corr. hell.* III. 153; Lemnos *ib.* IV. 543. Athens *C. I. A.* II. 478 c. 6; 487, 5, Add. 489^b, 15 (G. Meyer²

p. 137). ΕΣΤΕΤΩ ἔσται αὐρῶ Phryg. *Bull. de corr. hell.* VIII. 251.

⁴ Corssen *Ausspr.* I.² p. 664; W. Schmitz *Beitr. zur lat. Sprachkunde* 96 ff.; Diez *Gr.* I.³ 171. Seelmann *Ausspr. d. Lat.* 223.

indeed if we are to believe the Greek philologist Psichari, we must absolutely recognize in *ἀτός*, which survives to this day dialectically, a proof of the original diphthongal pronunciation of *av*; for, according to him, *ἀτός* cannot be explained from *aftos*¹. Above all how could *av* change to *o*? Nevertheless this vowel has here and there in Doric been developed from *av*: *καππώτας* from *καταπαύω*, *αὔσωτοῦ* from *αὐτός αὐτοῦ = εἰαυτοῦ*². Correspondingly in Cretan *ευ* becomes *ου*; *ψούδια ψεύδη, ἐπιτάδουμα*³. That is to say in the case of *av* we have *κρᾶσις*, just as *αι* becomes *η* by *κρᾶσις*; in the case of *ευ* *ἐπικράτεια*, just as *ι* arises from *ει* by the same process. When furthermore we find in the centuries just preceding the Christian era, in various dialects and also in the *κοινή*, *κυριέουσα* written for *κυριεύουσα*, *σκεοθήκα κατεσκέασεν*, *Ἐωνυμεύς* and so on⁴, I can well understand, how in pronunciation the *v* which was really inconvenient was got rid of, but not how *v* should have been allowed to drop out just in those cases, where it stood between vowels⁵. Accordingly under the assumption, that *av ευ* were *αι ευ*, our difficulties vanish on all sides; under the other assumption we are absolutely surrounded with difficulties, if not impossibilities.

In Cretan *ἀνκά = ἀλκή, εὐθῆν = ἐλθεῖν*⁶: *al el* becoming

¹ Psichari *Rev. Crit.* 1887, 266.

² Ahrens *D. D.* 185; G. Meyer² p. 139. On the other hand Bœotian *ἀσαυτῦ Dial. Inscr.* 385, 391.

³ Ahrens *D. D.* 187; G. Meyer² p. 139; *Bull. de corr. hell.* iv. 354.

⁴ Ahrens *ib.* 188; Curtius *Sächs. Gesellsch. d. W.* xvi. 219; a very complete collection of examples G. Meyer² p. 137 ff. Even on the Lam. Styr. Röhl 372⁸¹ *Ἐαλκίδης* (carelessness? cp. no. 36, 73, 104 etc., where all sorts of letters are omitted). C. I. *Gr.* 2909 (Mykale) = Bechtel 144 *πρυτανέωντος*, trustworthy? *Ib.* 2107^c (Pantikapaion) [*βασιλ*]έοντος. (It must be remembered that Ionic EO = ET.) But in 2691^{de} this *βασιλ.* is certainly not to be read, see Le Bas, and 2919 (Tralles, also with *βασ.*) is a modern forgery, see Fröhner in Bechtel p. 148.

⁵ Before consonants *ἐνολας* C. I. *A.* II. 616, 19 (*ib.* l. 16 *ἐπανεσαι* for *ἐπαιν.*), *ἀπελεθέρα* Osann *Syll. inscr.* p. 440. To these examples and a few others in Meyer I add *πολυδέκη* Pap. L. 43, *χέσομαι* for *χεύσ.* Kaibel 816 (Rome; Wagner *de epigr. Gr.* [Leipzig 1883] p. 45); *Ἀξάνων* Sterret *Arch. Inst. of America*, III. no. 513, 598; *Πολύεκτος* Rhodes *Bull. de corr. h.* ix. 115; *Φάστω* Phryg. *ib.* VIII. 246; but *Ἐθύμαχος* Styra Röhl 372, 114 must be cancelled, see Bechtel 19, 193.

⁶ Ahrens *D. D.* III. (from the grammarians, at present no evidence from inscriptions, if *ἀδευφια* on the Gortynian inscrip. [v. 18] is nothing more than a scribe's error). On the supposed Thasian *Ἀυλωφῶν = Ἀγλαοφῶν* see Bechtel *Thas. Inscr.* p. 11.

au eu as in Romance, where in most dialects the next step was for *au* to become *o*, though in some it has remained. In the same way we may explain Bœotian εὔδομος for ἔβδομος and εὐδομήκοντα (if really existing) in Corcyra¹. Similarly we find on some of the most faulty papyri ῥαῦδος and ῥαῦτος for ῥάβδος². The Romance languages furnish excellent analogies on this point also: Spanish *ciudad* from *civ(i)tat-*, *cautivo* from *captivus*; Provençal *paraula* Fr. *parole* from *parab(o)la*, etc.³ As regards transliteration into and from other languages, Terentianus Maurus speaks of Latin *au eu* and Greek *av ev* as perfectly similar sounds⁴; accordingly *Paulus*, *Aurelius* are represented by Παῦλος, Αὐρήλιος. If then in face of this Bursian has recourse to the argument, that we know nothing of the pronunciation of Latin *au*, that is only evading the matter; he must allow the logical conclusion: *avspices*, *avt*, *avrum*. This people are naturally not willing to do⁵, in spite of the famous *Cauneas = cave ne eas*⁶; the fact is rather this, that *v* was pronounced as a semi-vowel, like English *w*, and therefore readily combined with *a* before consonants forming *au*: *cau(e)neas*, *auceps* from *avis*, *aufero*. It must be regretted for our purpose, that the Romans expressed consonantal and vowel *V* with one symbol; the poets however by scanning *Agāue ē̄uoē*, *Ēuander*, have taken sufficient care that

¹ Ahrens *D. A.* 174; *C. I. Gr.* 1563, 1845 (*Dial. Inscr.* 491, 17; 3206, 47).

² Papyr. L. 40, 41; a stronger instance still ἐμβλεύσαντας Papyr. Lond. (ed. Forshall) II. 11 for ἐμβλέψαντας i.e. ἐμβλέψαντας. The author of the three documents is the hermit of the Serapeum, the Macedonian son of Ptolemy Glaukias.

³ Diez I. 278, 281, 289 etc.

⁴ Terent. Maur. v. 467 ff.: *AV* et *EV*, quas sic habemus cum Graeis communiter, corripit plerumque possunt—(481) *AV* tamen capere videtur saepe productum sonum, *auspices* cum dico et *aurum*, sive Graecus αὐριον. mira nec putanda nobis talis alternatio est δι-

χρονον quod ἄλφα notum est, sicut *A* nostratibus. (There is no information elsewhere on *āu*, K. L. Schneider *Gr.* p. 58.) Some Roman grammarians wished to transliterate *av ev* by *ay ey*, Curt. Valerianus in Cassiodor. K. VII. 158.

⁵ Terent. M. says also very expressly v. 480: hanc enim (*EV*) si protrahamus, *A* sonabit, *E* et *V*, syllabam nec invenimus ex tribus vocalibus. The alleged testimony of Beda for the pronunciation *avrum* does not exist according to Keil's edition (VII. 228, 20).

⁶ On this (Cic. *de Div.* II. 40, 84) vide Henrichsen p. 132.

the difference of pronunciation as contrasted with *āvus lēvis* should be evident. And supposing that *v* had been doubled in these words we should find the writing *euuoe* (like *Maiia*). Moreover, had Ἄτρεύς been pronounced *Atrefs* or *Atreus*, the Romans would never have declined these proper names by the second declension, as they do: *Atrei Atreo Atreum*¹. The Greeks on their side represent consonantal *v* by *ou*, even in cases where it is preceded by *a*, *e*: Ὀκτάουιος, Σεουῆρος; and side by side with this appears Ὀκταίος². Yet, if Greek *au* had been *avi*, neither mutilation nor monstrous piling up of vowels would have been necessary; Ὀκταύιος, Σευῆρος would have served their purpose. The latter mode of writing occurs after Hadrian's time³, although so late as the period of Septimius Severus the writing Σεουῆρος far preponderates⁴. There was indeed nothing extraordinary in the representation of *eue* by *evη* i.e. *eue*, as in the biblical names Λευί, Εὔα, Δαυίδ, and this is quite wrongly used as an argument on their side by the followers of Reuchlin; the Copts also write ⲬϮⲗ, i.e. *Euha*, where the *h* can only be put in on account of the hiatus⁵. But the fact that Latin *av ev* is written from the second century onwards with *av ev*, though never before, suggests that the modern Greek pronunciation had at that time begun⁶, and naturally first before vowels. The only real difficulty in this question is to get any information as to the beginning of the present pronunciation; for the available material is in part of an absurdly questionable character. A bad Attic Epigram of the time of Hadrian, which has tormented our learned men quite unduly, gives ἐν εὐφήβοισι παλαίστραι[s?], which is explained by Kaibel in such a manner, that he makes the author scan εὐφήβοισι from metrical necessity and represent this scansion by εὐφ = *eff*, while according to others παλαίστραις is the right

¹ The vulgar pronunciation was *Orphaeus* three syllables, as Aristaeus, Mar. Victorin. K. vi. 66 f., Seelmann 229.

² Dittenberger *Herm.* vi. 302 ff.

³ do. p. 306.

⁴ p. 306, 3. In Sterret's inscrip-

tions (note 292) we find Σεου. and Φλάουιος no. 279, 345, 426, 534, 536, 613, 620; Σευ. 366, l. 56.

⁵ Stern *Kopt. Gr.* p. 19. Also Hebrew Vau = English *w*, Stade *Hebr. Gr.* 65.

⁶ So Dittenberger l. c.



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have pronounced *kateske-vasan* just as *Fla-viano*¹. But there can be no two opinions about *κατεσκέβασε* and *ἀπελέφτερος* on inscriptions of a period later but unfortunately not to be more accurately determined². Moreover a Spanish *Pablo* points with certainty to a Greek *Pavlos*, since *Paulus* would give *Polo*. Ulfilas also represents *av ev* by *av* and *aiv* (*Pavlus aivaggelyo*), and this Gothic *v* was certainly intended to represent a Greek spirant, although in Germanic words it was rather a semivowel, corresponding to the old German *w*. However Latin *au* also becomes *av* in Gothic: *kavtsyō* for *cautio*.

II. CONSONANTS.

SECTION 21.

Consonantal system in ancient and modern Greek.

As regards the pronunciation of the consonants Bursian again says, that he sees no reason in the case of any of them, except possibly β , to deviate from the modern Greek pronunciation. I on the contrary see many reasons in the case of many of them; indeed I find almost the whole sound-system different. The ancients, as is well known, distinguish between *ἄφωνα* and *ἡμίφωνα*, mutae and semivocales, a distinction which corresponds approximately to that which is made by modern phoneticians between explosives and fricatives. According to the ancients $\lambda \mu \nu \rho \sigma$, according to some also $\theta \phi \chi$, are *ἡμίφωνα*; $\beta \gamma \delta \pi \kappa \tau$ and according to the ordinary classification $\phi \chi \theta$ are mutes; three double-consonants are added, each formed by the combination of a mute and a semi-vowel, namely $\xi \psi$. This distribution according to the modern pronunciation appears in the following shape. Not only $\theta \phi \chi$, but also $\beta \delta \gamma$ and ξ , are reckoned among the fricatives; $\pi \kappa \tau$ are the only explosive sounds, $\xi \psi$ the only double-consonants. There remain to be noted the loss of the spiritus asper, which was

¹ Sterret (p. 80, n. 5 above) no. 279. 2015 (Callipolis), *Bull. de corr. hell.*

² Κατεσκ. C. I. Gr. 3693 (Cyzicus), 1888, 202 (Kios); ἀπελ. 5922^b (Rome).

not reckoned in the alphabet, but belonged to the fricatives, the new formation of the fricative *γ* not only from *γ* but also from vowel *i*, in many cases diminishing the number of syllables (*ἰατρός yatrós, ποιός pyos*); lastly the universal abandonment of the lengthening of the consonants represented in writing by their doubling: *ἄλλα* pronounced *αλά, μέλλω mēlō*¹. I think therefore, that the transformation of the sound-conditions could hardly have been greater, especially as even the explosive sounds which have remained have in certain cases a special pronunciation, conflicting with the writing.—We will begin our more detailed examination with the *ἡμίφωνα*, under which head we shall reckon the spiritus asper.

SECTION 22.

Pronunciation of the nasals MNT.

The Greeks have and had three nasal sounds, corresponding to the three classes of mutes: the labial nasal *μ*, the dental *ν*, and the guttural, which has no especial symbol in the alphabet and is represented by *γ* (*ñ* in Lepsius), called by certain grammarians *ἄγμα* or *ἄγγμα*. Only *ν* can be used as a final, but final *ν* was assimilated in the context to following consonants, i.e. it became *μ* or *γ* respectively, and more rarely *λ ρ σ*: *τὸρ ῥόδιον, ὦλ λέγουσι, ἐς Σιδῶνι, ἐσστήλει* or *ἐστήληι*². Inscriptions preserve abundant testimony to this, and in many, at least before mutes and *μ*, assimilation is consistently carried out³; even manuscript authority is not

¹ In the modern dialects according to Psichari (cp. *Rev. crit.* 1887, 264 n. 4) the vanished nasal has developed a doubling of the consonant: *αθθος ἄνθος, νιφφι νύμφη, τοχχιρο τὸν χοῖρον, τουγερο τὸν γέρον(τα), torrafti τὸν ῥάφτην*.

² C. I. A. II. 9. 14^b. 86, 14, 31. 369 etc. So also *ἐστήσαντι* i.e. *ἐνστ.* 834^b II, 28. Cp. Giese *Aeol. Dial.* 83 ff.; Cauer in *Curt. Stud.* VIII. 295 ff.; Meisterhans ed. 2, p. 86; Hecht *Orthogr. dial. Forschungen* 1, Progr. Königsb.

1885. The Ionic Inscript. of Halicarnassus *Bull. de corr. hell.* IV. 303 has sometimes *ἐλ Λυρισσῶι* sometimes *ἐν Λυρισσῶι*; the older one R. 500 l. 41 *τῶς συμπάντων*.

³ Consistently carried out e.g. on the Megarian inscrip. C. I. Gr. 1052 (*Dial. Inscr.* 3003): in the rescript of Cn. Manlius to the inhabitants of Heraclea Latmi, C. I. Gr. 3800, Le Bas v. no. 588, Dittenb. 209 (only l. 9 *πρόνοιαν ποιεῖσθαι*).

wanting on some papyri¹, and doubtless in the Attic and Macedonian periods this mode of writing was largely made use of in the texts of authors. But it appears, that in time the general tendency was, in the cultivated speech, to isolate words more and pronounce each distinctly by itself², as is shewn in an especial degree by the dropping of elision and crasis. In any case very few traces of assimilation have remained in our best manuscripts, and in our present manner of writing none; the modern Greek popular pronunciation on the other hand retains certain traces of it, although in general it rejects final *ν* altogether³. Conversely with us assimilation in the interior of words is regular, with the ancients this is not so much the case: it is not only that *συνλαμβάνω, ἐνκαλεῖν* and in general *ἐν- συν- παν-* before all sounds is on papyri the more common writing⁴, but also on inscriptions *᾽Ολυμπία, λαμβανέτω, ἄγκυρα, ἔπενψεν* and such like appear at all periods with greater or less frequency⁵. To infer from this, as some have done, that the Greeks pronounced the nasal before consonants in the French way, is an extraordinary piece of perversity⁶; however

¹ Pap. L. 2 (*Dialectics*) col. 2 τῶμ ποιητῶν, 3 οὐθὲμ πῆμα, 5 ἐγ γυναιξί, 7 τόγ γε, 8 προσιδόισαμ φάος, 9 ἄγ γίνοιτο, 11 τῶμ ποιητῶν. However it is not frequent on this careful and very old manuscript. Pap. 1 has only μέγ γάρ col. 6, and ἐμ βραχεῖ in the acrostic v. 2. On the other hand a Herculanean ms. (*Gompertz Wiener Akad. Bd. 83, 87 ff.*) which also shews *ει* for *ηι*: ὄταμ πόρρωθέμ ποθεν. ἐπιτήδιον πράξιν. τῶμ προλήψεων γιγνόμενον καὶ τῶμ φαινομένων. τὸ λεγόμενον πορε. καταγέλαστογ γὰρ etc.

² Hecht l. c. p. 32 cites (after G. Hermann *de emend. rat. gr. gr. c. iv.*) *Dionys. π. συνθ. p. 158 R.*:—κλυτὰν πέμπετε in Pindar is an instance of harsh juxtaposition, since the dental *ν* and the labial *π* do not agree well and do not fuse together at all into the beginning of a syllable.—According to Hecht assimilation ceases at Athens

soon after the beginning of the 3rd century B.C.

³ Foy p. 24 (τὸν παρακαλῶ pron. *tombarakaló*, τὸν πόλεμον *tombólomo*).

⁴ On the mss. of *Hypereides* cp. my table of comparison p. xi. Pap. L. i. 11 ἐνκέκλεικεν ἐνκλίει. 18, 19 συνκαταδύνει. *Philod. π. ὄργ. iii. 14 ἐνποιεῖ. xvii. 13 πάνπολλα.*

⁵ ᾽Ολυμπία ᾽Ολύμπιος is absolutely the usual spelling on the ancient Olympian inscriptions; assimilation in general was much more carelessly carried out in early times than later on. Ἐπενψεν C. I. A. ii. 51, πονπῆς 603; ἄγκυρα 811 B, ¹⁸⁵; ἀνπέλων constantly C. I. Gr. 1840 (*Corcyra*). On the ancient Attic inscr. vide *Cauer p. 288 f.* On Attic in general *Meisterhans ed. 2, p. 85–8.*

⁶ J. Schmidt *Vokalismus d. indog. Spr.* p. 116 ff., who calls this a nasal vowel and transliterates *nÿphe*. G.

no doubt before β π φ ψ the μ was not pronounced as a full *m* as at the beginning of a syllable or a word. We have express testimony to this, with reference not only to μ but to Latin *m*¹, and the same applies to the German pronunciation of *mp mb*, the closing of the lips not being completed before the sounds *p b* have been reached. This then and the habit of dividing into syllables, causing the nasal to become in a certain degree final, gives a sufficient explanation of that manner of writing². A yet more undefined pronunciation of the nasal, especially before labials, led to entire assimilation or even omission: Boeot. ἔππασις = ἔμπασις (ἔγκτησις), Ὀλυππίχα³; found sporadically in the most various localities Ἀφιτρίτα, νύφη, Ὀλυπικός, Ἄθαββος, etc.⁴ The most important phenomenon of this kind is the so-called ν ἐφέλκυστικόν, i.e. a nasal after-sound following final -ε (ει) and -ι (especially σι), which was present in Attic and Ionic from an early period and thus made its way into the common language. This nasal, which naturally took a special colouring from the initial letter following, was not strong enough in all cases to exclude hiatus and thereby prevent synalœpha, but it

Meyer also opposes this view p. 284, with regard to Latin Seelmann 289 f.

¹ Mar. Victor. vi. 16 Keil: clari in studiis viri, qui aliquid de orthographia scripserunt, omnes fere aiunt inter *m* et *n* litteras mediam vocem, quae non abhorreat ab utraque littera, sed neutram proprie exprimat, tam nobis deesse quam Graecis (i.e. is unrepresented in writing); nam cum illi *Sambyx* scribant, nec *m* exprimere nec *n*. Also in Latin spellings such as *Septembris Pompeii*, Schmitz *Beitr. z. lat. Sprachkunde* p. 66-.

² κέκρυμαι can only be explained by division into syllables (Athens), Kaibel *Epigr.* no. 96, καλυμάτων constantly Inscr. of Epidaurus Ἐφ. ἀρχ. 1886, p. 147 sqq., l. 57 sqq. ἐγρανμάτευεν C. I. A. ii. 489^b 3.

³ The latter occurs in *Bullet. de corr. hell.* iii. 385 (κοινὴ διάλ.). Also

in Attic we have ξυββάλλεσθαι, C. I. A. ii. 52^c; in Crete αφφανω αφφανω, ποππάν, περιαππέτιξ Comparetti *Mus. Ital.* i. 147. G. Meyer² p. 267.

⁴ Ib. p. 284; J. Schmidt l. c.; cp. Seelmann 273. This rejection of the nasal appears in Modern Greek too, but only before φθχ owing to a special tendency: ἀφαλός ὀμφαλός, ρεβίθι ἐρέβινθος, συχωρῶ, Foy p. 79, 80. In the ancient language constant in Cyprian and Pamphylian, and before dentals and gutturals as well as labials.—On the Corinthian clay tablets (Röhl no. 20; *Dial. Inscr.* 3119 f.) Ἀμφιτρίτα is written twice with μ, twice with ν, and twice without a nasal. Σφίξ, for Σφίγξ, C. I. Gr. 8139 (Athenian vase); τυχάνοι and τυχχάνοι *Ion. Papyr.* (cp. p. 44, n. 3 above). Addition of nasal also occurs in ἐμπρίατο C. I. Gr. 1840, 2, cp. Seelmann 274.

often did effect this and as time went on its tendency to do so increased; in like manner it did not necessarily make length by position with a following consonant, but it could do so. Homer and after him the whole range of poetry has made free use of the means here presented for convenient versification:—*ἔστ' ἔστι ἔστιν; ἔλεγ' ἔλεγε ἔλεγευ;* the prosaic language of the Attic inscriptions neglects to denote this weak sound more often at an early period than later on; indeed finally from the Macedonian period onwards the nasal was written regularly in all cases or at all events completely predominates¹. Accordingly the pronunciation may have undergone a gradual transition from *elegē estī* to a tolerably defined *elegen estin*. Our custom of placing the *ν ἐφελκ.* in prose to prevent hiatus and in all cases where there is a definite pause, but elsewhere of leaving it out, has no foundation whatsoever.

Initial *μ* on the other hand in contrast to its weak pronunciation when final or medial is in isolated instances written with aspiration: *ΜΗΕΓΑΡΕΙ, ΜΗΕΙΞΙΟΣ, Μείξιος*²; in Latin also initial *m* had its fullest sound, and the aspiration of initial liquids appears also in Welsh³. Some would assume the guttural nasal, written *γ*, before *μ* and *ν*, on account of the traditional name *αγμα*; for in this name, a transposition of *γάμμα*, the sound itself ought according to them to occur⁴.

¹ Meisterhans ed. 2, p. 88–9, based on the valuable treatise of Hedde Maassen: *de litera ν Graecorum paragogica quaest. epigraphicae*, *Leipziger Studien* iv. p. 1 ff.—The use of *ν ἐφ.* on Ionic inscrip. contrasts sharply with our texts of Herodotus (Ermann *Curt. Stud.* v. 278); e.g. the longer Chian inscrip. (Bechtel 174) and that of Halicarnassus (238) have *ν* in all cases.—Cp. also *Rh. Mus.* XLIII. 279. The name *ἐφελκ.* is founded on an error, Maassen p. 43: the original mode of expression is *τὸ ε̄ ἐφελκυστικόν ἐστι τοῦ ν̄*.

² Röhrl no. 514, 344; also on the inscript. of Sillyon in Pamphylia (ib. 505 *Dial. Inschr.* 1266) I. 10, 21, 23

ΜΗΟ; C. I. Gr. 7382 where *ΜΗΟΨΟΣ* must be read with Stuart for *Μαοψος*. G. Meyer² § 244 Note. (Cp. Dittenberger *Jahresber. f. AIV.* xxxvi. 146.)

³ Prisc. i. § 36; Lepsius *Stand. Alphab.* p. 172.

⁴ Westphal *Criech. Gramm.* 1. 1, 17; Brugman *Curt. Stud.* iv. 103. Evidence as regards *αγμα* is furnished by Varro in Prisc. i. § 39 (A. Wilmanns *de M. Ter. Varr. libris gramm.* p. 221): *ut Ion scribit quinta et vicesima est litera, quam vocant αγμα (ἄγμα ten Brink and Wilm.), cuius forma nulla est et vox communis est Graecis et Latinis, ut his verbis: aggulus aggens agguilla iggerunt.* Subsequently he adds to these *ageps ageora*; neither he nor any

For this very reason however others emend ἄγγμα. For our part we are inclined to pronounce throughout, γίγνομαι *ginnomai*, *signum sinnum*, and Greek γίνομαι γίνωσκω thus receive an immediate explanation; moreover γν γμ, although combinations of mute with liquid, always make syllables long by position. Still the latter is the case also with δμ δν, and on the papyrus πρᾶ -γμα is thus divided where there is a break of the line, not πρᾶγ-μα¹. This question hardly admits of decision; certainly we cannot regard as decisive the softening of ἐκ to ἐγ before μ and ν, for this softening takes place before other liquids. Modern Greek has in such cases no nasal, omission on the other hand occurs as in γίνομαι: πρᾶμμα (*prama*) πρᾶγμα².

SECTION 23.

Pronunciation of P (and Λ).

On the pronunciation of λ there is nothing to note except that it too appears in a few instances initially with an aspirate; ΛΗΒΟΝ λαβών³, ΛΗΕΟΝ. P according to the description given by Dionysius was pronounced with the tip of the tongue⁴, and accordingly was as in modern Greek⁵ dental, not guttural. Singularly enough its aspiration when initial or doubled is supported by only one example on inscriptions ΠΗΦΑΙΣΙ of an ancient Corcyrean epitaph⁶; it is however vouched for by Latin transliterations as well as by the Grammarians:

other Grammarian says anything about the occurrence of the same sound before *m n*, and in the latter case *g* is written in Latin, while in the former the usual way is to write *n*. On Latin *gn* cp. K. L. Schneider *Gr.* 1. 272 f.; Corssen i. 106; Rumpelt p. 99.

¹ Hypereid. i. 11, 5; 27, 9; 29, 8; 34, 28; ii. 3, 7 etc.; never divided otherwise in this manuscript.—'Ιάματα of Epidaurus (Ἐφημ. 1883) l. 49 στί-γματα.—Inscr. of Antiochus (*Ber. Berl. Akad.* 1883, 49 f.) iv^a. 14 διατετα-γμένας.

² Foy p. 77, also ἀναστεναμός (-ασμός), βρεμένος = (βε)βρεγμένος (Psich.).

³ Röhl no. 360 Ægina, according to Comparetti's reading which is rightly approved by Röhl (*Jahresber. f. AW.* xxxvi. [1883] p. 2). ΛΗΕΟΝ Attic vase (archaic) Ἐφ. ἀρχ. 1886 p. 87.

⁴ Dionys. *de compos.* p. 79 R. : τὸ δὲ ρ (ἐκφωνεῖται), τῆς γλώσσης ἄκρας ἀπορραπιζούσης τὸ πνεῦμα, καὶ πρὸς τὸν οὐρανὸν (palate) ἐγγὺς τῶν ὀδόντων ἀνισταμένης.

⁵ Foy p. 3 f.

⁶ Cauer *Del.* no. 23 (=84) = Röhl 343, = *Dial. Inscr.* 3189.

Rhesus, Pyrrhus, which on their part shew also, that the *h* was heard after the *r*¹. Aspiration of initial liquids is, not to speak of other languages, not unknown even in German², especially where we speak with much emphasis; in Greek we find besides MH PH the *Ῥεκαδάμοε* of an epitaph from Tanagra³. Analogies for the different values of *ρ* are furnished by Spanish, where also *r* when initial and when doubled in the middle of a word has a quite different and much more emphatic sound than medial *r* alone. Modern Greek, which has lost not only the aspirate but also the doubling of medial consonants, appears certainly to know no such distinction. The ancient language on the other hand not only as a rule wrote double *ρ*⁴ where initial *ρ* either in composition or by reason of the augment became internal, but also treated initial *ρ* itself from a prosodial point of view as a double-consonant: *ἴσα καὶ τὰ ῥήματα τίκτειν* Aristophanes (in anapaestic verse)⁵. On the other hand its aspiration after an aspirate, as taught by some Grammarians (*χρόνος, θρόνος, ἀφρός*, but *κάπρος*)⁶, is not borne

¹ Varro's doubt whether *hr* ought not to be written (or again *retor* without *h*) was grounded on grammatical theories. Priscian i. § 25; Cassiodorus K. vii. p. 152. The Copts indeed write *hretor* Stern *Kopt. Gr.* p. 19, and Bechtel *Inschr. des ion. Dial.* p. 133 would take ΑΗΡΣΙΩΝ (Amorgos no. 228) as *Ἀρσίων*, ΦΗΡΑΗΣΟ (Naxos no. 23) as *Φράησον*.

² [This emphatic pronunciation in German is described by Dr Blass as follows:—We are accustomed to pronounce (in emphasis) t-hage (Tage), n-hein (nein), s-hage (sage), and even 'haber (aber), that is to say we pronounce the spiritus asper after the lenis.]

³ Röhl no. 131. *Dial. Inschr.* 876.

⁴ It is true that this rule is often violated; for instance *παραρύματα* in the *att. Securkunden* as C. I. A. 74 d, 9, 16, 38, 60, 78 etc.; *καταράκτους* C. I. A. ii. 167; *ἀποραντήριον* etc., s.

Cauer *Curt. Studien* viii. 282, Meisterh. ed. 2, p. 73, n. 675. Doubling of other liquids in similar position: *Ἀρχεννηίδου Securk.* 809 d, 29 f; inscr. from Eleusis *Ἐφ. ἀρχ.* 1889, p. 49 ff. β, 20 *ἀρτήματαρρυμοῖς* (i. e. *ἀρτήματα ῥυμοῖς*); *ἀμφιλλεγομένων Crete Bull. de corr. hell.* iii. 290. Cp. G. Meyer² § 289.

⁵ Cp. *ταρριφεντα* on a papyrus of the Ptolemaic era, Wessely *Wien. Stud.* 1886 p. 205; in Homer forms like *ἀναρρῶγας, καταρρόον, τόρρα*, La Roche *Hom. Textkr.* 389, though Aristarchus certainly wrote not only *τό ρα*, but *διαραίσει* (— — —), *πολύρηνες*. The same fluctuation however appears in Homer in the case of the other liquids.

⁶ B. A. ii. 693: *οἱ ἀρχαῖοι γραμματικοὶ τὸ μὲν μετὰ ψιλοῦ εὕρισκόμενον ρ ἐψίλουν, τὸ δὲ μετὰ δασέος ἐδάσυνον· οἶον τὸ Ἀτρέως καὶ κάπρος ἐψίλουν, τὸ δὲ χρόνος ἀφρός θρόνος ἐδάσυνον.*



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is found very frequently on old dialectic inscriptions; in isolated cases even on Attic inscriptions: Λέσσβου, γράψασθαι, εἰσστήν, and instances continue to be found down to a late period¹. Boeckh² was inclined to regard this as an indication of the sound š, English *sh*, and his suggestion has found many to repeat it; it is however as unwarranted as it is unmaintainable and is at present given up³. The sound š is unknown even in cultivated modern Greek; if the ancients had possessed it, they would doubtless have made use of the proper Phœnician symbol to express it.

SECTION 25.

Spiritus asper.

At this point we must treat of the rough breathing, which also belongs to the fricatives or semivocales, although the ancients did not reckon it in among the letters at all. Besides the Æolians of Asia Minor the Asiatic Ionians⁴ lacked the breathing, and the alphabet of the latter having the value *e* for H became that used throughout the Greek world. In Magna Graecia however after the adoption of the Ionian alphabet a new symbol was employed for *h*, namely the divided H †⁵, and this very symbol was used by the Grammarians perhaps as early as from Aristotle's time onwards⁶, not however written in

¹ G. Meyer² p. 225 f. Attic e.g. ἄριστα C. I. A. i. 9, 20, Ἀστυπαιῆς 233, 28; Λέσσβου ii. 52^c; γράψασθαι 320; ἐστεφάνωσαν 567; εἰσστήν εἰσστό 272, 573^b; even φιλοτιμωσκαί 603. Meisterh.² p. 68-9. In a few isolated cases κ is similarly doubled: Ἐκκτωρ Corinth. Vase Dial. Inschr. 3122; ἐκκτῶν C. I. A. ii. 314; ἐκκτ[ο]ῦ 1060; ἐκκπεπτωκότων 224; ἐκκτελέσαντι Thisbe Röhl no. 284; ἐκκταύτας and Ἀσκληπιῶι Elateia Bull. de corr. h. x. 380; with division of syllables at end of line ἐκ χθέματα (i.e. ἐχθ, ἐκθ.) Cos, Bull. de corr. h. vi. 249 l. 59 f.

² Boeckh on C. I. Gr. i. 25.

³ For instance by G. Meyer l.c. I

have treated this point exhaustively in the *Satura philologica H. Sauppio oblata* p. 121. See also Seelmann 144 f. on the same point in Latin.

⁴ Giese *Acol. Dial.* 389 ff.

⁵ Occurring on inscr. of Tarentum and Heraclea. Also on Vases, so C. I. Gr. 7612, 8351, 8391; but †ΙΑΠΙΕΩΣ Tralles C. I. Gr. 2919 does not exist; see p. 80, n. 4.

⁶ Aristot. *El. Soph.* p. 177 b 3 on ὄρος and ὄρος: ἐν μὲν τοῖς γεγραμμένοις ταῦτον ὄνομα, ὄραν ἐκ τῶν αὐτῶν στοιχείων γεγραμμένον ἢ καὶ ὡσαύτως, κακεῖ δ' ἤδη παράσημα ποιοῦνται· τὰ δὲ φθεγγόμενα οὐ ταῦτά.

the same line with the other letters, but written above as a diacritic mark $\text{Α}^{\text{†}}$. At a subsequent period the corresponding symbol † was invented for the spiritus lenis, i.e. the absence of the breathing¹, and the rounding of these symbols gave our present mode of representing the spiritus. Its representation in Latin shews that the *h* was still heard in the Hellenistic dialect; moreover the aspiration of the tenuis in elision was consistently observed, although not always in a way identical with our own; for we find for example, *μεθοπωρινός, καθ' ἔτος* and *δωδεχέτης, ἐφ' ἴση, ἀφέσταλκα*². Similar fluctuations are well known in Latin from the first century B.C. and onwards both in the case of consonants and vowels³; Catullus' poem on Arrius and his *chommoda, hinsidia* illustrates this best⁴. In the case of consonants aspiration came in about this time from the Greek, in the case of vowels it must conversely from this time onwards have lost ground in the popular language, so that it was in the cultivated language that uncertainty prevailed, where to pronounce and write *h* and where not. That educated people continued to pronounce the *h* even during the Empire is shewn, to take an example, by a passage of Quintilian, where he laughs at those people as affected, who greet one another with *avē* instead of *havē* on account of the derivation from *avēre*⁵.

¹ The definitions *προσφθία ψιλή* or *πνεῦμα ψιλόν* (the latter properly speaking an unsuitable expression) can mean absolutely nothing else: *ψιλόσ* is devoid of breath, and Seelmann p. 262 is mistaken, when he takes the expressions *δασεία* and *ψιλή* to mean not something absolutely opposite, but only different degrees of aspiration. Latin writers have been (as so often) awkward in their translation of the terms, and the passages spoken of by S. from their grammarians, which would not allow to *h* the value of a letter, have no value for phonetics whatsoever, but only shew like countless others the dependence of Latin grammar on Greek. For my part I see no reason for the as-

sumption, that Greeks or Romans pronounced the unaspirated vowels differently from the Germanic and Romance peoples of to-day.

² G. Meyer² p. 244. Dittenberger *Syll. Ind.* p. 781 f. 784. *Μεθοπ.* is the regular spelling Pap. L. 1; *δωδεχέτης* Kaibel *Epigr.* 112, cp. 190, 205, 222; Rich. Wagner *de epigr. gr.* (Lpz. 1883) p. 90; on *ἀφέσταλκα* etc. cp. Keil *Schedae epigr.* p. 7 ff.

³ Corssen *Ausspr.* i.² 104.

⁴ Catullus *carm.* 84.

⁵ Quintil. i. 6, 21: *multum enim litteratus, qui sine aspiratione et producta secunda syllaba salutarit (avere est enim).* In the whole section he is speaking only of correctness of pronun-

But after the second half of the second century A.D. *h* in inscriptions is more and more frequently wrongly put in and wrongly omitted¹; the letter was therefore evidently disappearing, and the same development took place in Greek. The Copts, it is true, continue to represent the spiritus in Greek loan-words almost without exception with their ξ (*h*): *hoste, hina, hote* etc.²; it cannot therefore have disappeared in the second century. The cultivated pronunciation certainly retained it much longer, just as in Latin, where we find Augustine testifying to the offence taken in his time at pronunciations such as *ominem*³. Modern Greek however knows the aspiration no more than the Romance languages; for the French owe their *h* aspiré to the Germans. If however we infer from the growing uncertainty in the use of the symbol in Latin that the sound was beginning to disappear, are we not bound to make the same inference with regard to the Attic of the fifth century B.C.? For here too the cases are very numerous, where *H* ought to stand and does not⁴. The converse of this is of less frequent occurrence, except on one inscription which was evidently cut by a foreigner, where $\acute{\epsilon}\nu$, $\omicron\acute{\iota}\kappa\acute{\omega}\nu$ etc. are written in the most surprising manner⁵. It has indeed actually been maintained, that the breathing was no longer heard among the Athenians of the 4th century⁶, and this view receives support from passages of Aristotle, where the

ciation; he comes to orthography in c. 7. The question is also settled by c. 5, 17 ff.; Vel. Long. K. vii. 68 f., etc.

¹ Corsen l. c. p. 110; Seelmann p. 265 f. (the wall inscrip. of Pompeii shew the same uncertainty as early as the 1st cent., cp. on the confusion of *ae* and *e* in the same, p. 69, n. 1).

² Stern *Kopt. Gr.* p. 19.

³ August. *Confess.* i. c. 18 § 29 (Seelmann p. 265).—Among Greeks compare (Oros) Prolegomen. Hephaest. p. 93 W.: $\gamma\acute{\iota}\nu\epsilon\tau\alpha\iota$ $\beta\rho\alpha\delta\upsilon\tau\eta\varsigma$ $\tau\iota\varsigma$ $\tau\omicron\upsilon$ $\chi\rho\acute{\omicron}\nu\omicron\upsilon$, $\acute{\omega}\varsigma$ $\kappa\alpha\iota$ $\acute{\epsilon}\nu$ $\tau\eta$ $\delta\alpha\sigma\epsilon\acute{\iota}\alpha$ $\lambda\acute{\epsilon}\gamma\epsilon\tau\alpha\iota$, $\delta\iota\acute{\alpha}$ $\tau\eta\varsigma$ $\delta\acute{\xi}\epsilon\iota\alpha\varsigma$ ($\lambda\omicron\varsigma$ in $\kappa\alpha\lambda\acute{\omicron}\varsigma$ longer than in $\phi\acute{\iota}\lambda\omicron\varsigma$).

⁴ Collected by Cauer *C. St.* viii.

232 ff. On the inscript. of Eleusis found subsequently (*C. I. A.* iv. 27 b) the symbol is omitted about once in every ten instances. *Bull. de corr. h.* xii. 131 it is always written except in composition; *C. I. A.* iv. 53^a (B.C. 418/7) only in the word $\iota\epsilon\rho\acute{\omicron}\nu$, being left out everywhere else, evidently owing to the influence of the Ionic writing, traces of which appear there in other instances.

⁵ *C. I. A.* i. 324. (*Ἀθηναῖος Bull.* v. 178 (on vase) is *krasis*, cp. *C. I. A.* i. 423 ff.)

⁶ v. Schütz *Hist. alphabet. Att.* p. 54 ff.; G. Meyer *Gr.*² p. 242.



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of Heraclea we find ἴσος and ἶσος side by side. But if the breathing began to disappear at an early period in all the dialects, it could not very well have continued to exist in the Alexandrine and Roman periods in the common Hellenistic language. We must therefore seek for some other explanation; such an explanation is furnished by the weakness of the breathing, which also serves to make the great inconsistency and capriciousness in the aspiration of isolated words more intelligible. We say ἵππος but Γλαύκιππος Λεύκιππος, and as the cognate languages shew, the spiritus has no etymological warrant whatever. We find too side by side ἄγω (in Locrian it is true ἄγω) and ἠγέομαι, ἦμαρ and ἠμέρα, ἠώς and ἔως; there is no etymological reason for the fact, that initial *v* is always aspirated¹. This weakness of pronunciation also made it natural, that the Athenians and most of the other stems on adopting the Ionic alphabet should not trouble themselves about any new symbol for the sound of the breathing. In the interior of words in Laconian and other dialects the breathing was a late development from *σ*: Ἀγηΐστρατος, ἐποί-
 Γηέ = ἐποίησε²; according to the Grammarians the Attic dialect knew this internal spiritus only in the foreign word ταῶς³. In composition it was not generally written in Attica⁴, on the Heracleian tables not always⁵; Latin as a rule represents it even here: *exhedra* (*exedra*), *parhippus*, *Panhormus*, *Euhemerus*⁶. It had undoubtedly in this position a still slighter sound than at the beginning of words; the Alexandrine Grammarians themselves, who wrote the 'interaspiration' in the texts of the poets for the sake of clearness, renounced the rough breathing, if the real significance of the word lying hidden in the compound appeared to be no longer felt: ὠκύαλος νηῦς from ἄλς, Εὐαῖμων from αἶμων.

¹ G. Meyer² p. 243.

² The latter is Argive, R. no. 42, 44 a.

³ Athen. ix. 397 EF. (Attic vase inscription *vlūs*, C. I. Gr. 8202, cp. 8203.)

⁴ Cauer *Stud.* viii. 240 f., Meisterhans ed. 2, p. 67. In Elision ΠΑΠΗ-ΕΔΡΟΙ C. I. A. i. 34 and iv. 116^o, 10, ΜΕΔΗΝΙΙ. 77, 6 (also with pleonasm

ΚΑΘΗΑΠΕΡ iv. 51^a, 43), although Giese *Aeol. Dial.* p. 333 maintains, that the aspirate in this case was quite inaudible.

⁵ παρεξόντι once by παρέξόντι (the preposition in this dialect took the form πάρ).

⁶ K. L. Schneider p. 192 f. Also Coptic *ahoratos*, Stern *Kopt. Gr.* p. 19.

SECTION 26.

Pronunciation of the Tenuis.

Among the nine mutes the Tenuis (i.e. ψιλά, the surd letters) have on the whole retained their pronunciation. At the present day however the media appears in pronunciation after a nasal: λαμπρός pr. *lambrós*, ἐντρέπομαι *endrépome*; ἀναγκάζω ἀνάγκη *anangazo ananḡi*¹. The same thing takes place in close combination of words: τὸν πόλεμον *tom bólemon*, τὸν τόπον *ton dópon*, τὸν κόσμον *ton gósmo*². The assumption of a similar pronunciation in ancient Greek leads at once to pure impossibilities: how could the ancients have kept ἐντός and ἔνδον, ἀναφανδόν and -φαντο- so strictly distinct, as they certainly did? For we are not entitled to appeal to the Aristotelian ἐντελέχεια by the side of ἐνδελεχής: the word must have been ἐνδελέχεια, but being of infrequent usage it was remodelled on the analogy of τέλος. Next we are confronted with ἀμπλακεῖν and ἀμβλακεῖν, Ἄμπρακία and Ἄμβρακία, finally the Aristophanic pun βλέπειν Βαλλήναδε (Παλληνάδε, Παλλήνη and βάλλειν)³, those who cite these instances not perceiving that the very infrequency with which they occur contains a full refutation of the inference they draw. For tenuis and media or as we now say surd and sonant explosives approximate so closely in sound, that to say nothing of the license of word-plays, actual instances of interchange are not wanting in Greek any more than in other languages, for instance on Attic inscriptions τότω for δότω, ἀγροπόλει, Μεκακλήης⁴. Above all in Egypt τ and δ could not be kept distinct owing to the peculiarity of the national language, which did not possess a *d*, although it had *b*; accordingly mistakes such as τίδυμοι, τόδε for τότε, Εὔτοξος are among the commonest on papyri⁵.

¹ The pronunciation of κλ as γλ which has often been maintained is denied by Psichari for the general language.

² Foy p. 47.

³ Aristophanes *Acharn.* 233; E.

Curtius Gött. *Nachr.* 1857 p. 303.

⁴ C. I. A. II. 603, 272. *Bull. de corr. h.* II. 552 (ib. III. 64 Scyros κυνή for γυνή).

⁵ Praefat. *Hyperid.* p. xvii.

But the position in which the sound occurs, makes in these cases no difference whatever. Apart from this in the case of *k* a twofold pronunciation is current in modern Greek¹: guttural before consonants and before *a o u*, and inclining to palatal before *e i* (i.e. *k'* according to Lepsius' alphabet, being to *k* as *ch* in *ich* is to *ch* in *ach*). Consequently in the *καί* of the present day a sound is heard somewhat like *kye*, in which the *k* is produced so far forward on the palate, that it approximates to *t*. In many cases this palatal *k* like the *c* in Romance was and is further developed to *ch ts*, so that Psichari gives four further pronunciations for *κε καί*:—*chye che tsye tse*², and this pronunciation as Italian *ce*, although at the present day it is not considered worthy of imitation³, nevertheless made itself distinctly felt side by side with the other at the period of the revival of letters⁴. Something analogous to *k k'* might be found in ancient Greek in the contiguous use of ϣ (*koppa*) and Κ; this however seems in point of fact to have been more a matter of orthography than pronunciation. The syllables *κο κρο κτο* were written with ϣ, because the letter was called *koppa*, *κα κρα* etc. were on the other hand written with kappa for the same reason⁵; the rest of the work fell to the share of the latter, as standing before the other in the alphabet, except where a *u* still retaining its proper *u*-sound appeared to demand similar treatment to *o*⁶. Subsequently ϣ was given up as superfluous, just as *k* in Latin gave place to *c*.

SECTION 27.

Aspirates and mediae; contrast between ancient and modern Greek.

The pronunciation of the aspirates Θ Φ Χ is one of the most difficult points. The name *aspirata littera, δασὺ γράμμα* points

¹ Foy p. 5.

² Psichari *Rev. Crit.* 1887 p. 265.

³ Foy p. 56.

⁴ Cp. the edict of Chancellor Gardiner (p. 3 above), which on this point allows a certain licence; Smith *Sylloge*

p. 530.

⁵ ΒΟΨΑΣ (?) Βαοτ. Röhl 183 stands alone; Meister *Dial.-Inscr.* 881 βω[λ]âs?

⁶ Cp. p. 35 above.



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system as this transferred to the ancient language must of necessity alter its character most violently. It is however perfectly impossible to transfer it. For all spirants are fricatives, that is according to the ancient nomenclature *ἡμίφωνα*, having even without the addition of a vowel a certain perceptible sound; but in ancient Greek β γ δ are always and φ χ θ generally reckoned among the *ἄφωνα*. That the latter were by some, apparently by the Stoics, considered as *ἡμίφωνα*¹, is fully explained by the fact, that the added breathing is of itself a *ἡμίφωνον*; in like manner ξ ψ ζ are reckoned as *ἡμίφωνα* owing to the σ which forms one of their component parts. In the modern Greek pronunciation on the contrary no one could ever maintain these letters to be mutes. Moreover Dionysius of Halicarnassus gives a closer description of the pronunciation²; he says that in the case of π β φ the mouth is shut and then suddenly opened, in like manner in τ θ δ the tongue is pressed against the teeth; in κ χ γ it is raised to the palate, and there is no further distinction between these letters according to him beyond that of the breathing³. Aristides Quintilianus also writing in the third century expresses himself to the same effect:—in the case of the media β and the related sounds π and φ the stream of air, he says, breaks through the closure of the lips in the centre, and so on, he too making the only difference between the related sounds to consist in the fact, that the tenues were articulated in the front part of the

¹ Sext. Empir. p. 621 f. represents the aspirates as *ἡμίφωνα*, adding, that 'some' reckon them as *ἄφωνα*; Priscian i. 14 says conversely: hic quoque error a quibusdam antiquis Graecorum grammaticis invasit Latinos, qui φ et θ et χ semivocales putabant, nulla alia causa, nisi quod spiritus in eis abundet, inducti. The Stoics according to Dion. L. vii. 57 reckoned only six *ἄφωνα*, β γ δ κ π τ. Dionys. Halic., Dion. Thrax etc. reckon the aspirates as mute without expressing any doubt on the subject.

² Dion. Hal. Comp. p. 78 R.

³ Dion. Hal. Comp. p. 83 f.: π φ

β are pronounced, ὅταν τοῦ στόματος πιεσθέντος τὸ προβαλλόμενον ἐκ τῆς ἀρτηρίας πνεῦμα λύσῃ τὸν δεσμὸν αὐτοῦ.—ΤΘΔ: τῆς γλώττης ἄκρῳ τῷ στόματι προσερείδομένης κατὰ τοὺς μετεώρους ὀδόντας, ἐπειθ' ὑπὸ τοῦ πνεύματος ἀποριπιζομένης καὶ τὴν διέξοδον αὐτῷ κάτω περὶ τοὺς ὀδόντας ἀποδιδούσης.—ΚΧΓ: τῆς γλώττης ἀνισταμένης πρὸς τὸν οὐρανὸν ἐγγὺς τῆς φάρυγγος καὶ τῆς ἀρτηρίας ὑπηχούσης τῷ πνεύματι, οὐδὲν οὐδὲ ταῦτα διαφέροντα τῷ σχήματι ἀλλήλων, πλὴν ὅτι τὸ μὲν κ ψιλῶς λέγεται, τὸ δὲ χ δασέως, τὸ δὲ γ μετρίως καὶ μεταξὺ ἀμφοῖν.

mouth and softly, the aspirates energetically from the larynx, the mediae with moderate force in the central part¹. Accordingly all these sounds were instantaneous and explosive; *f ch* etc. on the other hand are fricatives, being produced by a contraction not amounting to complete closure of the vocal passage; for neither are the lips closed in producing *f* nor in making the *th*-sound is the tongue pressed against the teeth, but only brought near. It is then already placed beyond doubt and will receive further confirmation, that the aspirates and the mediae during the classical period had a different pronunciation from that now in vogue.

SECTION 28.

Pronunciation of the Aspirates.

To understand what the aspirates really are, we must turn our attention to the living oriental languages, especially those of India. There exist in Sanskrit as in the derived languages combinations both of the tenuis with the breathing: *kh th ph*, and of the media: *gh dh bh*; both classes are considered in the alphabet as simple sounds, but are really formed by a combination of mute with breathing. Germans in general pronounce their so-called tenues when initial with a similar breathing, generally without being themselves aware of it; other nations however, as for instance the Hindoos, perceive the distinction between their own true tenues, and the approximation to their own aspirates. We must then, as G. Curtius especially has shewn², consider this to have been the character of the Greek aspirates, their prior member being a tenuis: *k p t*.

¹ Aristid. Quintil. p. 89 Meib. (54 Jahn): τῶν ἀφώνων τὰ μὲν διὰ τῶν χειλέων χεῖται μόνων, τοῦ πνεύματος τὴν ἔμφραξιν αὐτῶν κατὰ μέσον ἐκβιαζομένου, ὡς τὸ β καὶ τὰ τούτου περιεκτικά, τὰ δὲ κτέ. (The description is less lucid in the case of the gutturals and dentals.) Then: τούτων δὲ τὰ μὲν ἡρεμαίως προάγοντα τὸν ἀέρα καὶ τῶν περὶ τοὺς ὀδόντας τόπων κέκληται τε ψιλὰ καὶ ἔστιν εὐφω-

νότερα· τὰ δ' ἐνδοθεν ἐκ φάρυγγος ὠνόμασται δασέα καὶ ἔστι λίαν τραχέα· τὰ δ' ἐκ μέσου τοῦ φωνητικοῦ τόπου μέσα τε εἴρηται καὶ τῆς ἀμφοτέρων εἴληχε φύσεως. Similarly only more briefly expressed before p. 44 (29).

² Curtius *Grundz.*⁵ 414 ff.; W. Schmitz, *Beitr. zur lat. Sprach- und Litteraturkunde* p. 118 ff.

Out of this a spirant has been developed by assimilation and fusion of the elements, the breathing according to the view usually held being changed to a spirant of a nature homogeneous to the tenuis (*pf* or *pv*, *tθ*, *kχ*), the latter finally crowding out the tenuis. It is still a matter of dispute, whether this assumed intermediate pronunciation: *pf kch tth*, had already begun in the classical period, a view maintained first by R. von Raumer and finding after him its principal champion in W. Roscher¹. This question too ought however to be decided by the classification of letters discussed above; for *pf* etc. are certainly not mutes, and one may go further and say that they are clearly double-consonants, just as much as *ξ ψ ζ*. In the next place if this view had been correct, it must have been possible to have cited in its support transliterations, especially in Latin, since *pf* or *ts* or something similar would have been written, if only in sporadic instances, for Greek *φθ*; but as a matter of fact nothing of the kind is found. And I fail to understand how v. Raumer and Rumpelt can argue, that, because according to Quintilian Cicero in the speech for Fundanius laughed at a Greek witness, who could not pronounce the first letter of *Fundanius*², Greek *φ* was at that time *pf* or according to Rumpelt a simple spirant³. According to Quintilian we must suppose that the man said *Hundanius*; but even supposing that he had, as they think, made the *f* into a *φ*, his representation of the foreign sound by *p + h* would not have been any further from the mark, than the Slavonic and Lithuanian representation of late Greek *φ* or German *f* as *p*⁴. The only inference that can be made from the passage is that there was a fundamental

¹ R. v. Baumer *Aspiraten und Lautverschiebung* p. 96 ff.; W. Roscher *Curtius Stud.* 1, 2, 117 ff.

² Quintil. i. iv. 14: quin *fordeum foedosque* (scil. was the pronunciation in the mouths of ancient Romans for *hordeum hoedos*), pro aspiratione velut (other mss. vel *f* ut; Christ. Hahn) simili littera utentes; nam contra Graeci adspirare *ei* (others read *φ* for

ei; ita adspirare without *ei* also has authority; *f* ut *φ* Christ. Halm; Spalding rejects *ei*) solent, ut pro Fundanio Cicero testem, qui primam ejus litteram dicere non possit, irridet.

³ Rumpelt p. 56.

⁴ Kurschat *Litt. Gramm.* p. 22, 50. (*Franzose Prancuzas, Christoph Kristups*); Miklosich *Allsloven. Lautlehre* p. 236.



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refutation of the theory. I am not myself convinced, that this transitional stage obtained general acceptance at any period whatsoever. At all events I can not find it absolutely established for any period, and it may accordingly for our purpose be disregarded. The following facts may serve as a confirmation of the pronunciation as $p + h$ etc. Those Greek races, which did not possess the non-Phœnician symbols $\phi \chi$, in those cases where they were not satisfied with the simple tenuis, adopted the writing ΠΗ ΚΗ, exactly as the Romans did, when the representation of the aspirates by the tenues $p c t$ usual at an early period seemed to them not sufficiently accurate and aspiration of consonants had ceased to be regarded as strange. Secondly the contact of tenuis with aspirated vowel produces aspirates: ἐφ' ῶ, ἀνθ' οὔ (*ephōi, anthu*). On the other hand aspirates readily pass into tenues according to a definite rule in inflexional formation and composition: τεθέαμαι, ἐτέθην, μνήσθητι, ἐκεχειρία, ἀρκεθέωρος, Ἀμπιθάλης, Ἀρκεφῶν¹, and if on the other hand violations of this principle are not infrequent² on inscriptions, these errors and the other very numerous alternations of aspirated and unaspirated mutcs³ only serve to shew, how slight was the distinction between the two. Moreover the doubling of aspirates gives tenuis + aspirate, which is quite regular, supposing that the latter consists of tenuis + breathing⁴; in like manner the Germans write quite correctly *tz* for double *z*. It is true that a difficulty arises from the fact that before an aspirate a tenuis pronounced with a different position of the vocal organs becomes likewise aspirated; for to many it appears impossible

tion, although this treatment would not be unnatural in the case of the pronunciation $p + h$ etc.

¹ The two last examples from *Delos* *Bull. de corr. h.* vi. 25, 27.

² Roscher l.c. p. 98. So ἐνθαυθοῖ and ἀνεθέθη on the Eleusinian inscription *C. I. A.* iv. 276. Cp. also Meisterhans p. 78² f.

³ Roscher p. 79 ff.; Schmitz p. 114 ff.—The βάρβαροι in Aristophanes, the Scythian in the *Thesmoph.* and the

Triballian in the *Birds* always put tenuis for aspirate; see also the Athenian vase *C. I. Gr.* 8076³. On a Phrygian inscrip. *Bull. de corr. hell.* ii. 255 f. 'Ρουπίνος, Τρόπιμος, ὄκλος; Sterret *Arch. Inst. of America* iii. no. 366 l. 35, 100, 39 Διοπάνης Τειμότεος, l. 109 Κτιμενηνός, for which subsequently Χθιμ.

⁴ There are naturally here and there violations of this rule, Roscher p. 89.

to pronounce *eklithos* (ἔχθος), *phtheiro* with doubled breathing¹. Σ also has a similar aspirating power, at all events at an early period; hence arises the writing ΦΣ, ΧΣ for ψ and ξ; Plato says, that φ ψ σ ζ are letters with a strong breathing². Is it possible then to pronounce *p h s* in succession? We must however be on our guard against speaking too readily of impossibility; for to others, as for example to Lepsius, *khth*, *phs* appears perfectly possible, and only *khkh* impossible, since here the organ is the same; where the organ is different on the other hand, the breath, according to them, comes out simultaneously behind the first letter, before the mouth assumes the new position. Accordingly we have no need of the way out of the difficulty, which was adopted by G. Curtius³ following the lead of others. This was that the breathing heard after the *t* or with the *s* in combinations such as *pth ps* was liable to be transformed in the sensorium of the hearer and consequently also in script to the *p* which was equally susceptible of aspiration, and these combinations being of frequent occurrence habit did the rest to establish an orthography ΦΘ etc.⁴ This form of writing is as a matter of fact much too well established for such an explanation to hold water; the four or five exceptions on archaic and later monuments: ΑΠΘΙΤΟΝ, ΚΑΤΑΠΘΙΜΕΝΗΣ etc. can hardly count⁴. On the other hand the entirely different treatment of such combinations in modern Greek must be made prominent. The modern Greek spirants shewing an exactly opposite tendency combine with the tenues: φτάνω φθάνω, κλέφτης κλέπτης, ὀχτώ ὀκτώ: neither a combination of hard (surd) spirant with spirant nor of tenuis with tenuis is in accordance with the genius of the language. In like manner σ admits of a surd spirant neither

¹ Ebel in Kuhn's *Zeitschr.* XIII. 266 ff.

² Plato *Kratyl.* 427 Δ: διὰ τοῦ φεῖ καὶ τοῦ ψεῖ καὶ τοῦ σῖγμα καὶ τοῦ ζῆτα, ὅτι πνευματώδη τὰ γράμματα, πάντα τὰ τοιαῦτα μεμίμηται αὐτοῖς ὀνομάζων (the giver of the names), οἷον τὸ ψυχρὸν καὶ τὸ ζέον καὶ τὸ σείεσθαι κτλ. The passage is quoted by v. Raumer p. 101,

who uses it (for want of better proof) to establish a spirantic element in φ in Plato's time.

³ Curtius *Grdz.*⁵ p. 414 ff., after W. von der Mühl *Aspiration der Tenues* (Lpz. 1875) p. 21 f. See on the other side J. Schmidt *K. Z.* xxvii. 179 ff.

⁴ Röbl no. 314 (Phokis), 382 (Chios).

immediately preceding nor following it: -ευσα i.e. -εφσα becomes εψα—ερσα, σχίζω becomes σκίζω, μισθός μιστός, αἰσθάνομαι στάνομαι¹. In the same way a surd spirant does not allow a preceding nasal: either this is assimilated and in some cases expelled as ἄνθος αθθος αθος, νύμφη νίffi νίfi², or a tenuis took the place of the aspirate and then a media the place of the tenuis, as in the word Κόρινθος which I have myself heard pronounced *Korindos* (written Κόριντος). Finally we must remark the effect produced in many cases by a preceding ρ: ἦρτα for ἦρθα ἦλθα, Κόρτο³ popular name for Corinth, ἔρχομαι pronounced *erkome* or *erxome*³. The same applies to the voiced spirant in combination with a nasal, neither is this spirant allowed without exception to stand combined with ρ. Where the phonetic laws are so different the sounds themselves of ancient and modern Greek must be fundamentally distinct. In the next place there remains to be produced in support of the long continuance of the real aspirates not only Quintilian's testimony, who regarded φ as a dulcissime spirans littera, Roman *f* and also the *v* in *servus* on the contrary as odious and offensive sounds⁴, but also that of the Coptic mode of writing which arose at the end of the second or the beginning of the third century. The Egyptian Christians, when they devised a new alphabet, mainly borrowed from the Greek, for their national language, employed the symbols Θ Φ Χ for the real aspirates which are found in Egyptian; on the other hand for the sounds *f* and *ch*, which they likewise possessed, they adopted peculiar symbols which were annexed to the Greek alphabet. In the numerous words borrowed from the

¹ Foy p. 134. Σφ holds its ground according to Psichari (*Mém. de la Soc. linguist.* vi. 305) in the ordinary language, but in Trapezus has become σπ.

² See p. 85, n. 1.

³ Psichari *Rev. crit.* 1887, 265.

⁴ Quint. xii. 10, 27: jucundissimas ex Graecis litteris non habemus (*v* and φ)—, quibus nullae apud eos dulcius spirant. He goes on to speak of the grecizing spellings *Zephyrus*, *Ephyra*,

and adds: quae si nostris litteris scribantur, surdum quiddam et barbarum efficient, et velut in locum earum succedent tristes et horridae, quibus Graecia caret (*f* and *v*). Nam et illa, quae est sexta nostrarum, paene non humana voce vel omnino non voce potius inter discrimina dentium cillanda est.—Aeolicae quoque litterae, qua *serrum* *cerrumque* dicimus, etsi forma (*f*) a nobis repudiata est, vis tamen nos ipsa persequitur.



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as long as *ph* and *f* were distinguished *ph* and *p*, *th* and *t*, *ch* and *c* had been liable to be interchanged: the contrast between the earlier and later pronunciation is therefore evident. This later pronunciation however will not have arisen all at once, it must have needed time to have made its way from the lower to the upper stratum of the people and to have become general. But its beginning or, if you prefer it, its prelude, is perhaps already to be found in the ancient Greek dialects; on this point we go on to speak in connection with the transformation of the *mediae*.

SECTION 29.

Pronunciation of the Mediae; dialectal pronunciation of the Mediae and Aspirates.

We have seen above, that the name *media* denotes a half aspirated sound, and not by any means a weak or voiced sound, with which names *b d g* are now denoted in contradistinction to *p t k*. The Greeks then heard a certain breathing in their $\beta \gamma \delta$; and who shall maintain, that their ears deceived them? Moreover there is this confirmatory fact, that the *mediae* as well as the aspirates became spirants. It certainly may be maintained that the name *mediae* suits the present pronunciation also, in so far as the breathing in βv is really weaker than in ϕf^1 . On the other hand, since Latin *b g d* and Greek $\beta \gamma \delta$ correspond to one another with perfect regularity, and the value of the Latin *mediae* is certainly identical with that of the present Romance and German, the pronunciation of Greek $\beta \gamma \delta$ must have been approximately the same as that of our *mediae*. In the case of δ this is made especially clear by the fact, that it is so frequently confused with *t* by Egyptian scribes; consequently there can have been no such wide difference as that between

Sacerdos (3rd. cent.) K. vi. 451.— Schmitz p. 134 furnishes examples for the confusion of *th* and *s* from the

notae Tironianae, also *Shuderico* for *Theoderico* on an inscrip.

¹ Cp. also *B. A.* 810, n. 2.

modern Greek τ and δ^1 . Strangely enough it is only the pronunciation of the β which has really been made a matter of controversy. However that this was during the Attic period not v appears sufficiently proven, in case there is still any doubt, by Plato², who calls it a mute, and by the $\beta\eta\ \beta\eta$ of the comic dramatists, and it is by no means the case, as has been stated, that in the Roman period it was employed without scruple for v . On the contrary the inscriptions of the time of the republic shew almost without exception Οὐαλέριος , Φόλουιος , and this mode of writing, tedious though it was, even in the period of the empire was never quite ousted by the far more convenient β^3 . There existed then a pretty considerable difference between β and v , greater than that between semivocalic v (English w) and consonantal v (English v), for this would not have prevented the universal adoption of the writing with β . In the time of the Empire, especially from the second century onwards, this difference must have become smaller; otherwise the earlier usage would have been preserved. The Latin b too in many places had a similar development, being pronounced in the same way that survives at the present day among the Spaniards and many of the French of the south, whose *vivere* is according to the well known witticism *bibere*⁴. This indistinguishable confusion of the two sounds gave rise next to such spellings as Σεουαστός , which is often met with on Greek inscriptions in Italy⁵. But in the fact, that even at the present day β is an explosive sound when following

¹ See Plat. *Crat.* 427 A: τῆς τοῦ δέλτα συμπιέσεως καὶ τοῦ ταῦ καὶ ἀπερείσεως τῆς γλώττης.

² Theaet. 203 B: τοῦ δ' αὖ βῆτα οὔτε φωνῆ οὔτε ψόφος (cp. Dion. συνθ. 72).

³ S. Dittenberger *Herm.* vi. 302 ff., who has only two exx. from the time of the republic of β for v (yet in Delos about 180 B.C. *Bull. de corr. h.* vi. 38, 43, Dittenb. *Syll.* no. 367, 86, 130 Λιβλου Βιβλου); the Monumentum Ancyranum also still shews ου consistent-

ly. The same writing was used in verse also; C. I. Gr. 67 sq. $\text{Σιλδυνίου εὐξάμενος}$ with consonantal pronunciation. The name of L. Verus is commonly written Οὐῆρος , much more rarely Βῆρος , Dittenberger p. 304. In many exx. also v internal is omitted, Φαώνιος , Βόλλαι , in short it is quite evident that the Greeks possessed no quite appropriate expression for v .

⁴ Corssen 1², 131; Diez Gr. 1, 280. 376; Seelmann p. 239 f.

⁵ Dittenberger p. 304.

a nasal, Psichari¹ rightly finds a proof, that it was originally this in all cases; for *κοινος* could not have produced *κομβος*, but an original *v* would have done away with the nasal. As regards *γ*, this letter seems at all events when between vowels to have become a spirant at a very early period in the popular pronunciation. For a frequent misuse of it on papyrus is to bridge over a hiatus: *ὑγιγαίνις* = *ὑγιαίνεις*, *κλαίγω* = *κλαίω*, *Ταύγης* *Τάγης* for *Ταύης* *Τάης*, *Σαραπιγῆρον*², and conversely it is frequently wrongly omitted: *ὑιαίνης*, *ὀλίος*³, which latter form is also attested as Tarentine and is cited by the Attic comic poets as a barbarism of the demagogue Hyperbolus⁴. Compare further *Φιάλεια* = *Φιγάλεια*, *ἀγήοχα* for *ἀγήγοχα*, Bœotian *ἰών* for *ἐγώ*, *ἄγεθλα* in Pamphylian⁵. All this points to a softening of the guttural explosive to a *γ*, or in the case of a back-vowel to the *g*, which the Germans usually pronounce in *Tage*; but the sound was so undefined and weak, that it was thrust in and left out at will⁶. The phenomenon was however in any case strange to the standard Attic, as is shewn by the sneer at Hyperbolus and probably neither Hyperbolus nor any one else at Athens who pronounced *ὀλίος*, on the same principle pronounced *λέγω* as *λέω*, any more than a Bœotian said *λίω* because he had *ἰών* for *ἐγών*. Such cases as these have their source in isolated words of frequent occurrence—compare Italian *io* from *ego*, but not *lio* from *lego*—and may subsequently develope into a principle of universal application. In some of the dialects however other mediae also and not less other aspirates to all appearance became at an early period

¹ Psich. *Rev. crit.* 1887, 267.

² Pap. L. 63 col. 1 *ὑγιγαίνις* and conj. *ὑγιγαίνης*; *κλαίγω* 51; *Ταύγης* *Τάγης* 23. 55 Bis; *Σαραπ.* 40. 41.

³ *ὑιαίνομεν* and *ὑιαίνις* 42, *ὀλίος* 63, 4; 26 twice.

⁴ Herodian 1, 141, 19; Plat. com. frg. 168 K. (in Herod. II. 926); v. Herwerden 60 (C. I. A. II. 594, 8). Also on the inscr. of Chersonesos on the Crimean Peninsula (*Bull. de corr. hell.* v. 70 Dittenb. 252), *ὀλίωι* is found at l. 10; see further *Ἐφ. ἀρχ.* 1884 p.

39 l. 22 (Peiraieus, decree of Macedonian Period); *Bull.* VII. 166 (Imbros) Meisterhans, p. 59².

⁵ G. Meyer *Gr.*² p. 218; *ἄγεθλα* Röhl no. 505 l. 24.

⁶ Cp. Wessely *Wiener Stud.* 1882 p. 197, who draws the general conclusion, that *γ* was pronounced like *γ* before an *E*- or *I*-sound. The indications or suggestions of such a pronunciation are however found with much greater frequency in the earlier than the later period.



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to be found for θ after σ on an old Laconian inscription¹. In the next place Apollonius testifies, that in Doric poets, among whom judging by the character of the quotations we must understand Alcman to be included, the tenuis in elision and crasis is 'times without number' not altered before the spiritus asper: $\kappa\acute{\omega}$ τοξότας, κάλλιστ' ὑπαυλέν². Now this cannot be explained in the same way in the Laconian dialect as the same phenomenon in Ionic; for in that dialect the spiritus had disappeared; in Laconian it was still living when medial. If on the other hand the aspirates had become spirants, it would be quite natural, that in this case the tenuis should not become a spirant, but should remain. Did the Laconian dialect then really have the modern Greek sound-system? We cannot reconcile this view with the phenomena we have described in Alcman, corresponding, as we must assume, with the cultivated Laconian of about the fourth or third century B.C.; for we do not find there anything like ἐπαντεῖ, φτέγγεται, so that the sound must be considered as the aspirate which has stood its ground in these cases. But if θ was still often an aspirate, why should not the same be true of ϕ χ ? Moreover οὐχορης (οὐχ ὀρης)³ on the Alcman-Papyrus goes against the argument taken from Apollonius. I would therefore prefer the following explanation. In Laconian in cases of elision and crasis the breathing might disappear together with the elided vowel, instead of as in other dialects changing its place; in οὐχ ὀρης, where there is no elision, aspiration naturally took place. According to this there remains for this dialect a spirantic β and a partly spirantic θ . Similar phenomena are to be found also in other Doric dialects. Cretan, especially as we know it from the Gortynian inscription,

¹ Röhl no. 72, infinitive in -εσται.

² Apoll. Synt. p. 335 (Bergk Lyr. III.⁴ p. 697): ἀπειράκεις γὰρ τὰ Δωρικὰ διὰ ψιλῶν ἀντιστοίχων τὰς συναλοιφὰς ποιεῖται· κῶ τοξότας Ἡρακλέης. κάλλιστ' ὑπαυλέν κτέ. Bergk refers at least the first three fragments to Alcman.

³ Col. II. 16; ὦιτ' ἄλιον II. 7 (with

Lenis, cp. Rh. Mus. XL. 2) obviously stands apart. In the other fragments there are not very many examples for the one or the other; in frg. 60 Bergk φύλλα θ' ἔρπετά θ' ὄσσα, but the mss. φῦλά τε ἔρπετά θ' ὄσα. But 76 χῶπάραν = καὶ ὀπώραν (cp. Ὀπωρίς on a Laconian inscr.) seems to be rightly preserved.

entirely ignores the usual and well-founded rules, according to which the aspirate is neither doubled, nor does it begin two syllables in succession: $\sigma\theta$ is assimilated to $\theta\theta$, for which we have sometimes θ , but never $\tau\theta$, and the forms from $\tau\theta\acute{\epsilon}\nu\alpha\iota$ always shew repeated aspirates: $\theta\iota\theta\eta\iota$, $\theta\iota\theta\epsilon\mu\acute{\epsilon}\nu\omega\iota$, $\kappa\alpha\tau\alpha\theta\acute{\iota}\theta\epsilon\theta\theta\alpha\iota$, $\mu\eta\pi\iota\theta\iota\theta\acute{\epsilon}\tau\omega$ ¹. If then θ was a spirant, all is perfectly clear; for modern Greek also knows forms like $\chi\acute{\alpha}\phi\tau\omega$ ($\kappa\acute{\alpha}\pi\tau\omega$), $\chi\alpha\chi\alpha\nu\acute{\iota}\zeta\omega$ (cp. $\kappa\alpha\chi\acute{\alpha}\zeta\omega$), $\chi\alpha\chi\lambda\alpha\nu\acute{\iota}\zeta\omega$ (cp. $\kappa\alpha\chi\lambda\acute{\alpha}\zeta\omega$), $\chi\omicron\chi\lambda\acute{\alpha}\kappa\iota$ (cp. $\kappa\acute{\omicron}\chi\lambda\alpha\xi$) etc.² The Gortynian inscription has τ for θ before and after ν : $\acute{\alpha}\nu\tau\rho\omega\pi\omicron\varsigma$, $\tau\epsilon\tau\nu\alpha\kappa\acute{\omicron}\varsigma$ ³, which again agrees admirably. Here then we seem to be really on safe ground; it is however absolutely wrong, to go further and explain ϕ χ as spirants; for the Cretans wrote for these right on to a rather late period π κ , which they certainly would not have done, if they had been f and ch . It is evidently rather the case that the one dental aspirate had become a spirant, and that this was the only one which had a special symbol in the national alphabet. With regard to the mediae we have not sufficient material for drawing any conclusion; for even the replacing of Φ by β only occurs in isolated instances⁴. On the other hand a spirantic δ appears certainly to have existed in Elean: for many of the old Olympian inscriptions use ζ for δ , which can only signify the spirant: $\zeta\acute{\epsilon}$, $\zeta\acute{\iota}\kappa\alpha\iota\alpha$, $\acute{\omicron}\lambda\upsilon\nu\pi\iota\acute{\alpha}\zeta\omega\nu$. β also occurs for Φ in the same dialect: $\beta\alpha\delta\acute{\upsilon}$ place-name = $\eta\delta\acute{\upsilon}$ ⁵, $\beta\omicron\iota\kappa\acute{\iota}\alpha$ on the great Damocrates inscription belonging to the Hellenistic period⁶. The latter has also $\pi\omicron\iota\eta\acute{\alpha}\sigma\sigma\alpha\iota$ for $\pi\omicron\iota\eta\sigma\alpha\sigma\theta\alpha\iota$; on the older inscriptions on the other hand $\sigma\tau$ appears regularly for $\sigma\theta$: $\lambda\upsilon\sigma\acute{\alpha}\sigma\tau\omega$; $\pi\acute{\alpha}\sigma\kappa\omicron\iota$ also for $\pi\acute{\alpha}\sigma\chi\omicron\iota$ appears

¹ $\kappa\alpha\tau\alpha\theta\acute{\iota}\theta$. Gortyn. inscr. c. 6, 4; $\theta\iota\theta\eta\iota$ $\theta\iota\theta\epsilon\mu$. Gort. Comparetti *Mus. Ital.* II. 635; $\mu\eta\pi\iota\theta$. Cnossus ib. 678.

² Psichari *Mém. de la soc. de linguistique* VI. 303 f.; who sums up as follows:—en grec moderne, les spirants sourdes s'attirent au commencement de deux syllabes consécutives; quand les deux spirantes sont contiguës, la seconde se change en l'explosive correspondante. Nous avons

le traitement inverse dans les aspirées anciennes.

³ $\acute{\alpha}\nu\tau\rho$. $\acute{\alpha}\nu\tau\rho\acute{\omega}\pi\iota\nu\alpha$ Gortyn. inscr. XI. 24; X. 43; $\tau\nu\alpha\tau\acute{\omega}\nu$ ib. V. 39; $\tau\epsilon\tau\nu\alpha\kappa\acute{\omicron}\varsigma$ $\tau\epsilon\tau\nu\acute{\alpha}\kappa\eta\iota$ Gort. *Rh. Mus.* XLI. 119 f. But $\acute{\alpha}\nu\theta\rho\omega\pi\omicron\varsigma$ Cnossus *Mus. Ital.* II. 677/8.

⁴ See p. 76 n. 3. G. Meyer assumes spirantic δ 2nd ed. p. 262 (on Cret. ϕ as spirant cp. ib. 261).

⁵ Ahrens *D. A.* 226.

⁶ *Dial.-Inscr.* 1172³³.

to be a corresponding instance¹. Whether this $\sigma\tau\sigma\kappa$ is an indication of spirantic pronunciation, I do not know²; $\sigma\tau$ is found just as regularly in Lokrian, which is allied to Elean, and sporadically also on Phokian and Bœotian inscriptions. In the case of Lokrian we again find the same apparent indication which we found in Alcman; that is to say although the symbol for the aspirate is in use, the tenuis is never aspirated in cases of elision and crasis, as for instance HOPKOS *πεντορκία*, HAGEN (*ἄγειν*) OPIAGON *ώπάγων, ἐπάγειν; κατιγόμενον καθικόμενον*³. Finally here also *θέθμιον* occurs with doubled aspirate; in Olympia we have for the same word ΘΕΘΤΜΟΝ with one of those perplexing errors which characterise these bronzes⁴. On the other hand $\nu\theta$ etc. are found in both places quite as usual, and on an inscription which is apparently Elean *τυτθόν*⁵. It might be safer, with regard to Lokrian to maintain nothing and with regard to Elean only a spirantic δ and β .

SECTION 30.

Pronunciation of Ξ Ψ.

Of the three double-consonants $\Xi \Psi \text{Z}$ the two first demand but very little discussion. The older Greek races, as the Athenians and Bœotians, employed as has been mentioned above $\chi\sigma \phi\sigma$ for the symbols which they did not yet possess; the grammarians on the other hand unanimously consider this first member to have been a tenuis $\kappa \pi$ ⁶, and according to Theophrastus this was done even by Archinus, the reformer of Attic orthography in the archonship of Euclides⁷. Ξ being a *γράμμα*

¹ ΣΤ Röhl no. 109, 111, 117, 119, 121 (*D.-I.* 1147, 1157, 1159, 1161, 1168), *πάσκοι* R. 112 (*D.-I.* 1152).

² G. Meyer² p. 262 is much too precipitate: "which proves a pronunciation as in modern Greek."

³ R. 321, 322 (*D.-I.* 1478, 1479). Also 321¹⁴, *αἰ κ' ὀ*; but the aspirate is never found written in the case of the article.

⁴ R. 321¹⁶; 113^b (*D.-I.* 1154). Also on the Xuthias inscrip. (R. 68)

θεθμόν twice; but always *σθ*. *Θεθμόν* Epidaurus *Ἐφημ.* 1885, 65/66. G. Meyer² p. 291.

⁵ R. 552 (*D.-I.* 1161).

⁶ Dion. Thrax *B. A.* p. 632: (*σύγκειται*) τὸ ξ ἐκ τοῦ κ καὶ σ, τὸ δὲ ψ ἐκ τοῦ π καὶ σ. *Dion. Hal. Comp.* p. 82 R τὸ ξ διὰ τοῦ κ καὶ τὸ ψ διὰ τοῦ π τὸν συριγμὸν ἀποδίδωσι, ψιλῶν ὄντων ἀμφοτέρων (*cp.* p. 78, 79).

⁷ Syrian Schol. *Ar. Met.* p. 940: *ταύτη δὲ τῇ ἀποδόσει* (that these are



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this order). Archinus also says that it contains a δ , and on this point certainly there ought to be no dispute. The German pronunciation giving it the sound (*ts*) of their own *z* is of course a mere misuse and is not defended, but many modern philologists imagine its sound to have been somewhat like *zz* (double sonant *s*) and endeavour not without a little violence to bring the authorities into harmony with their theory¹. Such speculations as these I cannot follow but rather believe, that the sound, which men like Aristotle and Dionysius of Halicarnassus heard, must have really existed. But with reference to the sequence of the two elements G. Curtius also has entered the lists against the ancients supporting the pronunciation *ds* (more correctly *dz*, with the French value of *z*)². This pronunciation too can be designated as traditional; for in Italian the *z* of Greek words has still this sound (*zelo, zeta*), and it is easy to shew that the tradition goes back to an early period³. On the other hand, according to that excellent authority Psichari, the pronunciation of ζ as *dz* which is at present current among the Greek islands is not to be regarded as in any way traditional, any more than the pronunciation of $\sigma\sigma$ as *ts* (*τέσσαρα, ἀσήμι = ἄσ.* "silver"). Psichari states that in Chios, the various stages of this modern development may be observed side by side: *nomiⁿzo, nominzō, nomindzo*⁴. Moreover, as *dy* is etymo-

λαμβάνοντα, ἢ διὰ τὸ χώραν ἐπέχειν δυεῖν γραμμάτων ἐν ταῖς συλλαβαῖς παραλαμβάνομενον ἕκαστον.—p. 82: τριῶν δὲ τῶν ἄλλων γραμμάτων ἃ δὴ διπλᾶ καλεῖται τὸ ζ μᾶλλον ἠδύνει τὴν ἀκοὴν τῶν ἑτέρων· τὸ μὲν γὰρ ζ διὰ τοῦ κ καὶ τὸ ψ διὰ τοῦ π τὸν συριγμὸν ἀποδίδωσι, ψιλῶν ὄντων ἀμφοτέρων, τοῦτο δ' ἠσυχῆ τῷ πνεύματι δασύνεται (on account of the media δ contained in it), καὶ ἔστι τῶν ὁμογενῶν γενναιότατον (the noblest, most euphonious sound). This passage is wrongly interpreted by Ascoli *Krit. Stud.* p. 365 f. of the German trans., who finds in it an indication of the sound *z'z'*).—Sext. Empir. p. 662, Bk.; Bekk. *Anec.* p. 1175 (ζ cannot like $\xi\psi$ stand as a final, διότι ἐκ τοῦ σ καὶ δ δοκεῖ

συγκεῖσθαι, οὐδέποτε δὲ λέξις Ἑλληνικὴ εἰς ἄφωνον καταλήγει). The evidence from Greek sources is therefore unanimous except the scholia on Aristotle, in which certainly (p. 331 B, 33, 42) the σ is denoted as the second sound for all three double letters. For the Scholiast thus understands the ἐπιφέρεται of Arist., which however in this author (s. Bonitz Index) by no means has the later meaning 'follow'.

¹ Ascoli (see preceding note).

² Curtius *Grdr*⁵. p. 615.

³ We have also the testimony of the Latin grammarians, see below.

⁴ Mondry Beaudouin *Bull. de corr. hell.* iv. p. 366 (Carpathus).

logically at the root of ζ, *dz* may easily have been developed from this just as in Italian *mezzo* i.e. *meddzo* comes from *medius* (*medyus*), *orzo* from *hordeum* (*ordyum*); *diurnus giorno* (*džorno*) also is essentially analogous. Accordingly this pronunciation too has its claims, and moreover the origin of the modern Greek pronunciation as simple *z* requires illustration; the third and not the least warranted pronunciation is that maintained by the grammarians, namely *sd* or more accurately, since *s* must be soft before the media, *zd*. Let us endeavour then to do justice to each one, assigning to it its province and period. It is a well known rule that in Attic and Hellenistic Greek the preposition *σύν* loses its *ν* in combination with initial ζ: *συζητεῖν*, *συζευγνύναι*, *συζῆν*. If now *d* was the prior element in the compound letter ζ (*syn-dsēn*), there was no reason for the rejection of the *ν*; we find *συγξέω*, *σύμψηφος*. But if the pronunciation in Attic was *sd*, *sy(n)sden* is perfectly analogous to *συ(ν)σπᾶν*, *συ(ν)σκευάζειν*. Here then we have our first confirmation of the tradition of the grammarians¹. In the next place the preposition *ἐξ* must of necessity lose its *s* before *δ*; before *σ* it need not. Now we find on the Attic maritime documents in big letters as a title *ἐξ Ζέας*, i.e. *eks sdeas*². Moreover the distortion of *ὦ Ζεῦ δέσποτα* into *ὦ Βδεῦ δέσποτα* by an Attic comic poet would be very harsh if the pronunciation were *Δσεῦ*, but quite easy if it were *Σδεῦ*. We often find in Attica, Bœotia, Delphi, that is in central Greece generally, the spelling *σζ* for ζ: *Βυσζάντιοι*, *συναγωνισζόμενοι*, *ἐπεψήφισζεν*³. If ζ = *σδ*, this is analogous to the spellings mentioned above *Λέσσβου*, *γράψασσθαι* etc.; for *σζ* is then equal to *σσδ*. We

¹ C. I. A. II. 793 f. 54. I can not appeal to *ἐξ ζωῆς* Kaibel *Epigr.* no. 155, since judging by the very late date of the epigram we must rather suppose the simplified pronunciation as *z* to have belonged to the ζ. It cannot be denied however, that the assimilation of *ἐξ* sometimes does not take place or takes place wrongly: *ἐξ Ῥόδου ἐξ Ῥηνείας* C. I. A. I. 259; II. 814, 27; *ἐγ Πειραιῶς* often 834^b II. (ib. *ἐγκαίδεκα*).

² Meineke *Frg. Com.* IV. 688.

³ Thebes *Dial.-Inscr.* 705, 20; C. I. A. II. 352, 315; *καταδουλιζοιτο* Delphi W. F. 218, 11. Cp. my *Miscell. epigraph.* in the *Satura philologa Herm. Sauppeo oblata* p. 124 f. (*καρπίσζεσθαι* consular letter to the Oropians, *Ἐφ. ἀρχ.* 1884 p. 101 ff. l. 28; also *Monum. Ancyrr. μείσζονα*, col. 15, 15; other later exx. G. Meyer² 225.) (Old Attic ζζ in *Βυζζάντιοι*, *Κλαζζομενίοι*, *Ἄζζεῖοι*, C. I. A. I. 230, 238.)

find similar pleonasms in ἔξς on an inscription of Chios¹ and the *xs* which is so common in Latin for simple *x*; *sx* and *σξ* on the other hand still require authentication, as also ζσ. The *s*-sound then preceded in ζ, while in ξ it followed.—ἔζων for ἔστων on a Delphian inscription is a very instructive error in writing, which would be impossible if the pronunciation of ζ had been *ds*, but is easily intelligible supposing it to have been *σδ*². In the next place in cases of contact *σ + δ* frequently become ζ. It is true that as a rule διόσδοτος θεόσδοτος are written just as ἐκσώζω not ἐξώζω; but we find on Bœotian inscriptions side by side with Θειόσδοτος Θιοζότα Θέζοτος Θεόσζοτος Διόζοτος³, and in Attic inscriptions as well as in authors Θεόζοτος Θεοζοτίδης⁴. βύζην also appears to me to be undoubtedly equal to βύσδην, cp. βέβυσμαι and πλέγδην; and Ἄθῆναζε χαμᾶζε ἔραζε θύραζε to Ἄθῆνασδε θύρασδε etc., although now there is a tendency to analyze them rather into βύ-ζην, Ἄθῆνα-ζε etc. For if this supposed ζε had been added, the word would have been Ἄθῆνηζε just as Ἄθῆνηθεν and in Homer θύρηζε like θύρηφι θύρηθε⁵. According to our view ἔραζε χαμᾶζε are formed on false analogy, just as Ὀλυμπίασι from the singular Ὀλυμπία, Μεγαροῖ from the plural Μέγαρα.—Lastly we find the *zd sd* of foreign names represented by ζ: Ὠρομάζης *Auramazda*, Ἄζωτος *Ashdod*, Ἀρταουάζης *Artavasdes*, in Plato, Herodotus and later writers⁶. Accord-

¹ Röhl no. 381 A, 5 (Bechtel *Inschr. d. ion. Dial.* 174); *Dial.-Inschr.* 3130, 3136. Cp. Ναξσλον (=λων) on an old coin of the Sicilian Naxians, Eckhel *D. N.* i. 226; ἀναγράψαι Mykale C. I. Gr. 2909 (Bechtel 144).

² Wescher-Foucart 189, 13; also in 253, 11 not ETΩ which the transcription gives, but EΙΩ no doubt is to be found on the stone.

³ Θειόσδ. Röhl no. 151 = *Dial.-Inschr.* 567; with ζ Tanagra *D.-I.* 982 two sepulchral pillars; 914 col. 3 (=R. 157); 1043 (-σζ-); Thebes 708, 714; Thesp. 807^a; Διόζ. Kopai 556; Thebes 700 (R. 300); Thessaly 315⁷¹, *Mittheil.*

d. arch. Inst. 1889, 59 sq.

⁴ Dem. 21, 59; Plat. *Apol.* 33 E; C. I. A. II. 944 A, 39; C. I. Gr. IV. 821, 1 ff.

⁵ χαμᾶθεν (Att. Ion., not in Homer) might be cited in opposition. But the other form χαμαῖθεν (from χαμαί) appears to me correct (accordingly at most χαμᾶθεν). Cp. Osthoff, *z. Gesch. d. Perf.* 596 ff. Forms like Ἀχαρνῆζε (Lentz Herodian 499) have been found neither in authors nor inscriptions as yet.

⁶ Ὠρομ. Plat. *Alc.* i. 122 A, Plut. *Mor.* 369 D; ἸΩΩ coins of the Satraps, Mazdak head of a sect 500 A.D., see



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Slovenian *dya* regularly becomes *žda*¹. It is true that there *tya* also becomes *sta*, whilst in Greek *tya* becomes *-ττα* or *-σσα* according to the dialect. But those who adopt Curtius' assumption are equally unable to shew any analogy between the treatment of *ty* in Greek and that of *dy*, and they have to explain what is absolutely surprising, namely that the same language admitted *dz* but not *ts*². According to my view, it has (at least universally) admitted even *dz*, since not only has this in many dialects become $\delta\delta$, as *ts* has become $\tau\tau$ in Thessalian, Bœotian, Attic³ and also Cretan, but also other dialects have transposed the two elements. Attic might very well reject $\delta\delta$, although it preferred $\tau\tau$ to $\sigma\sigma$, and the Doric of Delphi, which had $\sigma\sigma$ for *ty ts*, might nevertheless avoid the corresponding assimilation in the case of *dz*, especially as the sound of the soft *s* only existed in the language in combination with a consonant, while here it would have been independent. On this side then there is really no obstacle; on the other hand it is certainly perplexing to meet with $\sigma\delta$, i.e. the Attic sound of ζ , as a dialectic peculiarity of the Lesbian and some other poets as Alcman and Theocritus⁴. Be it remarked however, this is only in books, not on in-

¹ Miklosich *Altsloven. Lautl.* p. 275.

² I would however suggest, that the sound *ts* is hidden beneath the writing T, which occurs in Halicarnassus R. 500 (5th cent.): ΑΑΙΚΑΡΝΑΤ[ΕΩ]Ν and ΑΑΙΚΑ[ΡΝΗ]ΣΣΕΩΝ ΑΑΙΚΑΡΝΗΣΣΟΝ, ΟΑΤΑΤΙΟΣ, ΙΑΝΤΑΤΙΟΣ; also on coins of the Thracian Mesembria: ΜΕΤΑΜΒΡΙΑΝΩΝ (Kirchhoff⁴ p. 12), and according to Röhl's suggestion (p. 139) in ΘΑΛΑΤΗΣ Τεος 497 B. 23. For in these Carian proper names on other later inscriptions *-ασσις -αξις* is written for *-ΑΤΙΣ*, *Bull. de corr. hell.* iv. 316, v. 580, vi. 191 (Bechtel 104, 239, 240).

³ I still have no doubt in spite of Ascoli (*Krit. Stud.* 324 ff.) and in spite of G. Curtius' recantation (*Etym.*⁵ 666)

that $\tau\tau$ and $\sigma\sigma$ both go back to *ts*. Ascoli's proofs of the origin of $\tau\tau$ in $\sigma\sigma$ are all of a very problematical character. It seems to me also sufficiently certain, that $\tau\tau$ was a peculiarity of Eubœa and Oropus, although Bechtel *Inschr. d. ion. Dial.* p. 13, 37, still doubts it. *Κλωσ* Styra no 19,³⁸³ B. and *Κισα*-do.³⁸² are too obscure in their derivation, to be of any use as instances.—On Crete see p. 122, n. 4 below.

⁴ Ahrens *D. A.* 45 ff.; Meister *Gr. Dial.* i. 129. This usage is not constant either in the Acolic poets or in Theocritus; the rule which Ahrens tries to institute is doubtful. Cp. Morsbach *dial. Theocr. Curtius Stud.* x. 31 ff.

scriptions; the Lesbian inscriptions as early as the fourth century have always ζ¹. But an antiquated spelling might easily be transmitted in the manuscripts of poets², and be adopted by artificial poets like Theocritus. It appears to me, that considering the few fragments which we possess of the Lesbian poets and the almost entire want of early Æolian inscriptions, we cannot yet expect a satisfactory solution of this riddle. I would suggest however, that the Æolians pronounced *sd* as the Athenians, but wrote this with two symbols, employing ζ for that sound, which in their dialect arose from δι- before a vowel: ζὰ = διὰ, κάρζα; this sound must have been *z* (*dz*)³, and for such a ζ no one cites any instance of the writing σδ. A difficulty of a different sort is the Delphian καταδουλιζμῶι⁴, evidently pronounced *-zmoi*, in a dialect which we have claimed for the pronunciation *zd*. This orthography Ζμύρνα ζβεννύναι is, as was mentioned under σ, very widely circulated in the Hellenistic and Roman period⁵; in itself however it by no means proves the simplification of the ζ. For Σμύρνα did not represent the actual pronunciation *zmyrna* (with soft *s*) with greater propriety than Ζμύρνα, in which latter spelling the *d* became mute spontaneously. Thus in the Attic period also we find beside Ὀρομάζης, where ζ = *zd*, Φαρνάβαζος Τιρίβαζος, with ζ = Persian *z*⁶. It is however noteworthy, that ζμ appears so often subsequently, and moreover the alternations between σ and ζ are not entirely limited to this case. We find on an inscription of Cnidus ζήζαζα (ζήσασα)⁷, on

¹ προσονυμάσδεσθαι on an inscription of Cyme of the Roman period (Cauer no. 127 = *Dial.-Inscr.* 311) is of course only an affected archaism.

² The grammarians themselves regard it merely as a matter of spelling, putting it in the same category with Æolic κσένος Πέλοπς ἰέρακς (Ahrens p. 48 f.; Meister 127, 1; R. Schneider *Bodleiana* p. 43).

³ With διά—ζά cp. τια (τίνα) σά in Doric (Ahrens *D. D.* 277).

⁴ Wescher-Foucart 433, 13.

⁵ σζ also occurs occasionally before μ: ἐνδέσζμους Ath. (Macedonian period) Ἐφ. 1883, 125 f. γ, 12; Ἐρασζμία C. I. A. III., 1553; χρησζμόν Cos *Bull. de. corr. h.* v. 228 (to be divided as χρησ-ζμόν).

⁶ Coins of the Satraps פֶּרְנַבּוּז, פֶּרְנַבּוּז, Nöldeke *Ber. Wien. Akad.* 1888, 415, 419.

⁷ Kaibel *Epigr.* 204^b; a few other exx. Keil *Bullet. de l'acad. de St Pet.* 1857, p. 179 (*Mél. Gréco-rom.* II. 38 f.).

ordinary papyri ὕβριζαν, ἐσύγη (ἐζύγην)¹; as a general rule it is true the writers of the papyri know how to distinguish the two letters. In the next place, against the value *zd* we have the Hellenistic spellings Ἄσδρούβας, Ἐσδρας, Ἄσδώδ, Ἀραουάσδης, Ὀρομάσδου²; for in the case of *ks ps ξ ψ* are always used in these transliterations and adaptations, and I would also confidently suggest, that the presumably Carthaginian name ΑΞΙΟΥΒΩ (gen.) on a Theban inscription is really ΑΙΡΟΥΒΩ³. So far then we should conclude that the modern Greek pronunciation prevailed in the Hellenistic popular language, while for the preceding era we have as yet only found the sound *zd*. And certainly *zd* could be simplified to *z* by a gradually weakened pronunciation of the *d*; but this is true to a still greater degree of *dz*, the claims of which must now be put to the test. Now ζ occurs to all appearance with such a value, *ts* or *dz*, on old Cretan inscriptions: ὄζος i.e. ὄσος (from ὄτυος = ὄτσος), ἀνδάζαθαι = ἀνδάτσαθαι ἀν(α)δάσασθαι (ζωῶ = ζωοῦ)⁴. But this disappeared in Crete at an early date, and ττ or δδ according to the circumstances, and initially δ was written for it. Thus the Gortynian inscription; later on we

¹ Pap. L. 40, 41 (ὕβρ.); pap. Weil col. 4, 14; ib. 5, 1 φορντίζειν φροντίσιν. All these pieces are more than averagely faulty; e.g. the Papyrus of Hyperides on the contrary shews nothing of the kind. (The attic ψηφλοεσθαι for -ξεσθαι Boeckh *See-Urkunden* p. 467 does not exist; see *C. I. A. II.* 809^b, 35.)

² We find on the Monum. Ancyra col. 5, 26 *Artavasdis* Greek Ἀραουάσδου, 29 *Artabu(z)* Ἀραβάζου, 30 *Artavasdi* Ἀραουάσδη, 6, 11 *Artavazdis* Ἀραβάζου. Cp. Mommsen p. 110, 1; p. 118, n. 6 above.—Ὀρομάσδου Inscr. of Antiochus of Commagene (69—34 B.C.), Puchstein *Berl. Monatsber.* 1883, 49 ff., col. 1^b 19; II^a 10.—Ἀριοβαρζάνης is written by Greeks and Latins with *z*; the pronunciation was probably here, where in any case there was

position-length, generally simplified. In Herodotus however (7, 2 f.) we find (Ἀρο)βαζάνης, and I think the Athenians wrote it thus, though now we find in the texts Ἀριοβαρζ. (the latter also *C. I. A. II.* 481 c¹, 1st. cent. B.C.)

³ Νώβαν (Accus.) Ἄ. *Dial.-Inscr.* 719; Meister writes here Ἄ(σδρ)ούβω. The inflection according to the 2nd decl. is certainly strange, especially beside Νώβαν.

⁴ Comparetti *Mus. Ital.* II. 131, 142, 162, 172, 194, 202 f., 210, 212, 224, 674; hitherto ζ had not occurred on old Cretan insor. Further discoveries are certainly pressingly wanted, in order to throw light on ἠλιζῖαι (= ἠλικία) *Folζηα* (= *Folkηα*) and such monstrous forms.



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ds (*ts*), if they do not actually deny altogether the compound nature of the letter¹. Moreover in the vulgar writing of the later empire *z* appears representing *di* followed by a vowel: *Aziabenicus* or *Azabenicus*, *zeta* (*diaeta*), and also for *j* (*y*):—*cozugi*, *Zanuari*², no doubt in the same way and having the same value as in the common Italian *mezzo* and the Venetian *mazore*.

To sum up then, the following seems to be the result of the whole investigation. In ancient times the Greeks possessed the sound-combination *zd*, in ὄζος ἐζόμην etc., and beside it a *dz* which was developed from *dy*, to which corresponded a *ts* from *ty*. The latter sound-combinations however did not hold their ground, the result being that *hizdo* and *nomizdo*, the former original, the latter from *nomidzo*, coincided in sound. To denote *zd* the Phoenician Sain was taken, which in Semitic signifies simple *z* (soft *s*), partly also as it seems *dz*; similarly Samech (*s*) had to serve for *ks*. In those places where *dz*

(*z*) si adsumpta non esset, per *s* et *d* *Mesdentium* scriberemus. Cp. Terent. Maur. v. 921.

¹ Mar. Victorin. K. vi. p. 6: sic et *z*, si modo latino sermoni necessaria esset, per *d* et *s* litteras faceremus (obscurely p. 34). Vel. Long. K. vii. 51: atque has [tres] litteras (*x* also as well as *z*) semivocales plerique tradiderunt. Verrius Flaccus (time of Augustus) placet mutas esse, quoniam a mutis incipiant, una a *c*, altera a *d* (mss. a *p*). quodsi quos movet, quod in semivocalem desinant, "sciant," inquit "z litteram per *sd* scribi ab iis qui putant illam ex *s* et *d* constare, ut sine dubio muta finiat." mihi videtur esse aliud *z*, aliud σίγμα καὶ δέλτα, nec eandem potestatem nec eundem sonum esse, sed secundum diversas dialectos enuntiari. Dores enim scimus dicere μελίσδειν, alios μελίζειν, nec ideo tamen eadem littera est, non magis quam cum alii κεβαλήν, alii κεφαλήν, alii ὄππατα alii ὄμματα, alii θάλατταν, alii θάλασσαν dicunt, cum

idem dicant. He goes on to deny that *z* is according to its actual sound a double consonant; for it is, he says, susceptible of being doubled and in pronunciation it has not, like *x*, a distinct sound at the beginning and end of its utterance. This grammarian then (time of Trajan) evidently pronounced a simple modern Greek ζ. For the very reason that *z* in itself was not a double consonant, some wished to write *Mezzentius* in Virgil, K. L. Schneider p. 380.—Martian. Cap. iii. § 257 considers the sound of Greek ζ to be ΤΣ.—Against Seelmann *Auspr.* 308 I remark, that the passage Quintil. xii. 10, 27 f. does not refer to ζ and υ, but to φ and υ: quos mutuari solemus refers to speaking, while he comes afterwards to writing, and in doing so speaks of *f* (and *u*) as compensatory letters belonging to Latin, wanting in Greek. So Spalding and before him Gesner.

² Corssen 1², 215 f.; Seelmann p. 239, 320 ff.

was in use, as long as it held its ground, it too and also *ts* were represented by Sain = Zeta; with this value it reached the Italians. In other localities it was otherwise, according to the wants of the dialect; in Elis Z was used for spirantic δ^1 . In the pronunciation *zd* however the sibilant gradually overpowered and extinguished the *d*; if in spite of this the sound continued to form length by position, the sibilant must have been doubled, and this certainly presents difficulties in the cases where it was initial. There is however no reason to assume that the simplification of the compound took place before the Hellenistic period; possibly the Macedonians were the originators and propagators of the change, the sound *zd* being strange to them. During this period there is no cause for surprise, if we find ζ for Sain in transliterations, as in $\Gamma\acute{\alpha}\zeta\alpha$ and the numerous Hebrew names such as *Zaxapías*, or for English *j = dž*, in Indian names such as 'Οζηνή *Ujjayini*. Correspondingly on a bilingual Attic inscription we find Sain as the Phoenician equivalent of ζ in *Bυζαντία*².

SECTION 32.

Assimilation in Word-nexus; Hiatus.

We have yet to make some general remarks on the combination of words and on their accentuation. With regard to the first point the Greek language appears to stand midway between the Sanskritic method, where the single word is modified by the surrounding words in the main in the same way, as the elements of a single word are modified by one another, and the method of our own language, which allows single words, and indeed any separable parts of a word, entire independence. We have spoken above of the assimilation of the final nasal, probably this was carried out still more in pronunciation than in writing. On the other hand in the case of final ρ and σ , as well as ξ and ψ , assimilation does not take

¹ See p. 113 above.

² *Corp. Inscr. Semitic.* no. 120 (3rd.

cent. B. C.?): הרנא כעלת בזנתי = E(i)-
ρήνη *Bυζαντία*.

place or only in a very slight degree. For instance the combination $\kappa\sigma$ is not suffered in the interior of words, but σ is rejected ($\pi\epsilon\pi\lambda\acute{\epsilon}\chi\theta\alpha\iota$ for $\pi\epsilon\pi\lambda\acute{\epsilon}\kappa\sigma\theta\alpha\iota$); in the case of final ξ however this takes place only in very close combination, namely in the case of $\acute{\epsilon}\xi$ and at most also in $\acute{\epsilon}\xi$ $\pi\acute{\upsilon}\xi$ $\lambda\acute{\alpha}\xi$. As regards the prepositions we must remark beforehand that the language, and this is true of Latin as well as Greek, made no distinction between their combination with a verb, where we write one word, and that with a noun; there was the same close connection and consequently the same assimilation¹. The only way in which we practise this in the case of $\acute{\epsilon}\xi$, is to write $\acute{\epsilon}\kappa$ before a consonant, i.e. to reject the σ ; but the Greeks even in writing assimilated the mute to the following sound with great regularity, the tenuis only standing before κ τ π χ σ , before θ ϕ , and at an earlier period before σ also, $\acute{\epsilon}\chi$ was written, before media or liquid $\acute{\epsilon}\gamma$ ². And this was so established as a usage in writing, that it is found regularly even on the papyri, though there in the case of $\acute{\epsilon}\nu$ and $\sigma\acute{\upsilon}\nu$ contrary to our custom the assimilation is omitted. "Εγγονος also comes under this head, i.e. $\acute{\epsilon}\kappa\gamma\omicron\nu\omicron\varsigma$, certainly not to be pronounced *eignonos* and derived from $\acute{\epsilon}\nu$ ³. The Bœotians and Arcadians however assimilated the ξ in quite a different way, namely by rejection of the κ : $\acute{\epsilon}\sigma\delta\acute{\epsilon}\lambda\lambda\epsilon\iota\nu$ ($\acute{\epsilon}\kappa\beta\acute{\alpha}\lambda\lambda\epsilon\iota\nu$), $\acute{\epsilon}\varsigma$ $\tau\omicron\iota\acute{\iota}$ $\acute{\epsilon}\rho\gamma\omicron\iota$ Arcadian, $\acute{\epsilon}\sigma\gamma\omicron\nu\omicron\varsigma$ and also before a vowel $\acute{\epsilon}\sigma\acute{\alpha}\rho\chi\iota$ ($\acute{\epsilon}\xi\acute{\alpha}\rho\chi\epsilon\iota$) Bœotian. The absence of the preposition $\acute{\epsilon}\iota\varsigma$ $\acute{\epsilon}\varsigma$, for which $\acute{\epsilon}\nu$ Arcad. $\acute{\iota}\nu$ was employed, made this possible without ambiguity. The numeral $\acute{\epsilon}\xi$ can in Attic in like manner become $\acute{\epsilon}\kappa$ $\acute{\epsilon}\gamma$: $\acute{\epsilon}\kappa$ $\pi\omicron\delta\acute{\omega}\nu$, $\acute{\epsilon}\gamma\delta\acute{\alpha}\kappa\tau\upsilon\lambda\omicron\varsigma$ ⁴; still even in composition it is just as often or

¹ On those early inscriptions, where the words are still separated by punctuation, the preposition is never separated from the noun; in Latin also such separation is often omitted, or on the other hand it is extended to the prepositions compounded with the verb, v. Corssen *Auspr.* II. 2 863 ff.

² Meisterhans 2nd ed., p. 82-4; Dittenb. *Syll.* Index p. 781. Before ρ $\acute{\epsilon}\gamma$ 'Ρυμοῦ Athens 'Εφ. ἀρχ. 1883, 123 l. 58, on the other hand two instances

of $\acute{\epsilon}\xi$ (above); other irregularities also appear (ib. and Meist. 2nd. ed., p. 84), and the intermediate form $\acute{\epsilon}\kappa\gamma$: e.g. $\acute{\epsilon}\kappa\gamma$ Μαγνησίας Ditt. 171¹⁰⁶. ¹⁰⁸; omission of consonant before $\sigma\kappa$ in $\acute{\epsilon}$ Σκύρου, Athens 'Εφ. ἀρχ. 1883, p. 123, l. 62.

³ 'Ενγόνους, Dittenb. 132,²⁵ is a blunder due to $\acute{\epsilon}\gamma\gamma$.—Cp. $\acute{\epsilon}\gamma\gamma\rho\acute{\alpha}\psi\alpha\sigma\theta\alpha\iota$ ib. 126,⁶¹ = $\acute{\epsilon}\kappa\gamma\rho$. l. 63.

⁴ Cauer *Curt. Stud.* VIII. 294 f.; Meisterh. 85, 125, 2nd ed.; Lebadea (Vulgar dialect) 'Αθήν. IV. 369 $\acute{\epsilon}\kappa\pi\acute{\epsilon}\delta\omicron\upsilon\varsigma$.



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hiatus did not take place¹. The Greek poets were at all periods except the latest one, that of Nonnus, contented to allow only those vowels to come into contact, in the case of which elision or crasis was possible; but when the prose writers began to pay attention to this point, they went farther and put limits even to this kind of combination of distinct words, leaving all words that had any importance and independence separated. Accordingly we find ἀλλ', δ', ταῦτ', or δηλώσαιμ' ἄν, but according to strict observance nothing like ἐκτήσατ' Ἀριστοτέλης was readily allowed, but Ἀριστοτέλης ἐκτήσατο was substituted, so that the hiatus did not present itself at all. The same punctiliousness as is well known characterised the Roman poets from the time of Augustus onwards. Moreover it appears that in the time of the empire the Romans avoided this combination of vowels, which had been customary before, no less in ordinary conversation, while the hiatus on the other hand was no longer avoided; the pronunciation at that time must have been, so to speak, purer giving every word and every syllable of a word its proper expression and value. Quintilian gives rules as to how far the use of hiatus is permitted to a speaker, discriminating between the several cases; nevertheless in the nexus of early Latin neither the quantity of the vowels nor their quality made any appreciable difference, except that in an example such as that cited in the *ad Herennium* as to be avoided, *baccae aeriae amoenissimae impendebant*, people in ordinary conversation must have omitted the harsh combination and allowed hiatus². But Quintilian cites as an example of dexterous hiatus in opposition to synalepha, the occasional advantage of which he allows, *pulchra oratione acta*³. The

¹ Cic. *Orat.* 150: quod quidem Latina lingua sic observat, nemo ut tam rusticus sit, qui vocalis nolit conjungere (in pronunciation), 152: sed Graeci viderint: nobis ne si cupiamus quidem distrahere voces (i. e. vocales) conceditur. Indicant orationes illae ipsae horridulae Catonis (in which therefore a hiatus must frequently have been suppressed even in script), indicant omnes poetae, etc. This is

scarcely contradictory to § 77 (on the occasional use of hiatus by the humilis orator).

² Quintil. ix. 4, 33 f.—*Ad Herenn.* iv. § 18: fugiemus crebras vocalium concursiones, quae vastam et hiantem orationem reddunt, ut haec est: *Baccae* etc.

³ § 36: et cocuntes litterae, quae συναλοιφαὶ dicuntur, etiam leviozem faciunt orationem, quam si omnia

case must have been the same with the Greek of that period. Dionysius of Halicarnassus found the hiatus *μᾶλλον δὲ ὄλον* in his Demosthenes, and imagined that this was really intended by the orator¹, evidently only because there were speakers at that period, who allowed this in speaking and did not get rid of it by synalepha. Demetrius who is somewhat later considers it actually more euphonious, to pronounce the vowels separate in the sentence *πάντα μὲν τὰ νέα καὶ καλά ἐστίν*, than with synalepha *καλά ἔστιν*²; the people however no doubt even at that period pronounced in the latter way. For even the Greeks of the present day are accustomed to annul the hiatus, at all events in speaking.

SECTION 33.

Transference of final consonants.

In ancient Greek, just as in French, though hardly to such an extent, final consonants were liable to be carried on. The teaching of the grammarians is³, that where elision of a final vowel has taken place the consonant preceding this must be given to the following syllable: *κα-τε-μοῦ, ἀ-πε-κεί-νου*, just as in French *en-tr'eux*. Wherever in composition a consonant comes before a vowel it belongs to this vowel without any exception, even in the case of *ἐξ εἰς προς δυσ-*; on the other hand, if a consonant follow, the final consonant remains with the preceding vowel; thus *ἐ-ξι-έναι, δύ-σελ-πιδ*, but *δύσ-μορ-φος*. In the case of *σ* indeed, as has been already remarked, the right analysis even in the case of simple words was a matter of doubt; hence these rules, which were of course capricious.

verba suo fine cludantur, et nonnunquam hiulca etiam decent faciuntque ampliora quaedam: ut *Pulchra* etc.

¹ Dionys. *Dem.* 42.

² Demetr. π. ἔρμ. § 70: *πολλὰ δὲ καὶ ἄλλα ἐν συναλοιφῇ μὲν λεγόμενα δύσφωνα ἦν, διαιρεθέντα δὲ καὶ συγκρουσθέντα εὐφωρότερα, ὡς τὸ πάντα κτέ. εἰ δὲ*

συναλείψας εἶποις καλά ἔστιν, δυσφωρότερον ἔσται τὸ λεγόμενον καὶ εὐτελέστερον.

³ Theodosius *Bekk. Anec.* 1127 f.; ed. Göttl. p. 62; Lentz *Herodian.* II. 390 ff., 407 f. Vid. K. E. A. Schmidt *Beiträge* p. 134 ff.

We are at liberty to doubt, whether the pronunciation really was so entirely established and certainly whether it continued the same through the different periods. The writer of the great Hyperides manuscript indeed always separates $\acute{\alpha}$ | $\pi\epsilon\sigma\tau\acute{\epsilon}\lambda\lambda\epsilon\tau\epsilon$ and so on where the line breaks off, but he writes more frequently $\epsilon\acute{\iota}\sigma\text{-}\alpha\gamma\gamma\epsilon\lambda\acute{\iota}\alpha$ than $\epsilon\acute{\iota}\text{-}\sigma\alpha\gamma\gamma\epsilon\lambda\acute{\iota}\alpha$, and moreover sometimes $\tau\alpha\upsilon$ | $\tau\acute{\omicron}\upsilon\chi$, sometimes $\omicron\upsilon\delta'$ | $\acute{\omicron}\sigma\tau\iota\varsigma$ ¹. On the long Epidaurian inscriptions, which sing the praises of the miracles of healing worked by Apollo and Asclepius with classic mendacity, the following examples of line-division occur: $\acute{\omega}$ | $\sigma\delta\acute{\epsilon}$ (beside $\tau\acute{\alpha}\chi\iota\sigma$ | $\tau\alpha$ $\gamma\alpha\sigma$ | $\tau\rho\acute{\iota}$ ² $\acute{\omicron}$ | $\sigma\tau\ralpha\kappa\alpha$), $\acute{\epsilon}\xi$ | $\acute{\epsilon}\lambda\theta\eta\iota$, $\acute{\alpha}$ | $\pi\acute{\alpha}\gamma\omicron\nu\tau\alpha$, $\acute{\epsilon}$ | $\nu\acute{\upsilon}\pi\nu\iota\omicron\nu$, $\acute{\epsilon}$ | $\kappa\tau\acute{\omicron}\upsilon\tau\omicron\upsilon$. The pronunciation and separation $\omicron\upsilon$ | $\kappa\acute{\epsilon}\sigma\tau\iota$ $\omicron\upsilon$ | $\chi\acute{\eta}\kappa\iota\sigma\tau\alpha$ ³ was certainly established. A transference between article and noun ($\tau\acute{\omega}$ | $\nu\acute{\epsilon}\rho\gamma\omega\nu$) and also between other looser connections may have taken place frequently⁴, but they did not divide so (in writing) except in rare instances, which are paralleled by instances of the opposite such as $\acute{\omicron}\sigma\text{-}\omicron\varsigma$ of equally little significance. A peculiarity worthy of mention, which appears on the Gortynian inscription and elsewhere sporadically, is the doubling of final ν in short words in close connection, so that it belongs to both syllables: $\tau\alpha\nu\nu\acute{\eta}\mu\acute{\iota}\nu\alpha\nu$, $\sigma\upsilon\nu\nu\acute{\eta}\iota$ (i.e. $\sigma\upsilon\nu\acute{\eta}$), $\acute{\omega}\nu\nu\acute{\alpha}\nu$, $\acute{\eta}\nu\nu\acute{\epsilon}\chi\omega\nu$ ⁵. Although Bücheler is of a different opinion, I think that this pronunciation gives the explanation for corresponding instances of licence in prosody in the Æolian dialect:— $\acute{\alpha}\sigma\upsilon\nu\acute{\epsilon}\tau\eta\mu\iota$, $\acute{\epsilon}\nu\acute{\omicron}\chi\lambda\eta\varsigma$, $\sigma\upsilon\nu$ $\acute{\omicron}\lambda\acute{\iota}\gamma\omega$ ⁶.

¹ Hyper. Praefat. p. ix.

² Έφ. άρχ. 1883 p. 199; 1885 p. 15. Cp. later Attic inser., which also finish the line with a complete syllable: II. 469, 35 $\acute{\epsilon}$ | ν $\acute{\alpha}\sigma\tau\epsilon\iota$, 403, 17 $\acute{\epsilon}$ | κ $\tau\acute{\omega}\nu$.—Inscr. of Antiochus (p. 122, n. 2 above) II.^a 23 $\pi\rho\omicron$ | $\sigma\acute{\omicron}\delta\omicron\upsilon\varsigma$; IV.^a 15 $\pi\rho\omicron\sigma$ | $\kappa\alpha\rho\tau\epsilon\rho\acute{\epsilon}\iota\tau\omega\sigma\alpha\nu$ is necessary, because on this inscription σ is always separated from τ θ etc.

³ ib.; C. I. A. II. 467, 81 $\omicron\upsilon$ | $\kappa\acute{\epsilon}\acute{\alpha}\sigma\alpha\varsigma$, 379, 3 $\omicron\upsilon$ | $\kappa\acute{\omicron}\lambda\acute{\iota}\gamma\alpha$.

⁴ Several occur in the second Hyperides mss. Praef. p. xvi.

⁵ Gortyn. Insc. 2, 49; 10, 41; Museo Ital. II. 599 col. vi., 9; also $\nu\sigma\sigma$ in $\tau\acute{\omicron}\nu\sigma\sigma\acute{\epsilon}\pi\iota\beta\alpha\lambda\lambda\acute{\omicron}\nu\tau\alpha\nu\varsigma$ 7, 9; but not $\sigma\upsilon\nu\epsilon\sigma\sigma\acute{\alpha}\xi\alpha\iota$ 3, 16, which comes from $\acute{\epsilon}\kappa\sigma\acute{\alpha}\tau\tau\omega$.—Samos Dittenb. Syll. 132, 12. 15.

⁶ Meister Gr. Dial. I. 148 (Bücheler Rh. Mus. XI. additional fasciculus p. 9).



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same period the transformation in the pronunciation may be ascertained from the metrical phenomena¹. Further accurate observation of the Greek poets has of late led to the assumption, that there existed in the language from the earliest period side by side with the variety of pitch a variety of stress following laws coinciding with those of Latin accentuation: namely the stress is said never to have rested on the last syllable and on the last but two only when the penultimate was short². It appears to me however still doubtful whether this is the true significance of the observations. With regard to pitch and tone we are told by Dionysius, that the interval between high pitch and low pitch syllables amounts pretty nearly to a fifth³. Now our accentual system, based on the statements of Dionysius Thrax, Dionysius of Halicarnassus and others, distinguishes only three kinds of syllables, high pitch (*ὀξεῖα προσῳδία*), low pitch (*βαρεῖα προσῳδία*) and those in which high and low pitch are united (in that order) (*προσ. περισπωμένη*, so called from the 'drawing round' the accent from high to low)⁴. This kind of accentuation or that corresponding to it, in which the sequence is from low to high, occurs in modern languages also; for instance the ancient circumflex is heard in Italian in the case of double consonants (*donna, stella*). Since the time of Aristophanes of Byzantium the low pitch syllables have been denoted by \sphericalangle , the high pitch by \sphericalcap , the circumflexed by the combination of the two symbols $\underline{\sphericalcap}$, which gradually became rounded. Originally every syllable had its accent: ΛΕΓΌΜΈΝΟΙ; but in course of time the notation

¹ Weil-Benloew p. 255 ff.

² Isid. Hilberg, *das Prinzip der Silbenwägung*, Wien, 1879. Cp. Hannsen *Rh. Mus.* xxxvii. 252, who, though agreeing in principle, makes the law of accentuation run quite differently; the last syllable, if long, has the strong stress; if not, the penultimate.

³ Dionys. *Comp.* p. 58: *διαλέκτου μὲν οὖν μέλος ἐνὶ μετρεῖται διαστήματι τῷ λεγομένῳ διὰ πέντε, ὡς ἔγγιστα· καὶ οὔτε ἐπιτείνεται πέρα τῶν τριῶν τόνων καὶ ἡμιτονίου ἐπὶ τὸ ὀξύ, οὔτε ἀνίσταται τοῦ*

χωρίου τούτου πλείον ἐπὶ τὸ βαρύ. On the contrary, afterwards page 62: *ἡ δὲ ὀργανικὴ τε καὶ ῥυθμικὴ μουσα διαστήμασι τε χρῆται πλείοσιν, οὐ τῷ διὰ πέντε μόνον, κτέ.*

⁴ Dion. Hal. p. 60 ff.; Dion. Thrax p. 629 Bk. : *τόνος ἐστὶ φωνῆς ἀπήχησις ἐναρμονίου, ἢ κατὰ ἀνάτασιν ἐν τῇ ὀξειᾳ, ἢ κατὰ ὀμαλισμὸν ἐν τῇ βαρειᾳ, ἢ κατὰ περίκλασιν ἐν τῇ περισπωμένῃ.* Varro ([*Sergii*] *explan. in Don. K.* iv. 531) hands down to us several other names for *περισπ.* : *δίτονος, σύμπλεκτος* etc.

was simplified; the gravis being placed only on the penultimate syllables of oxytones and perispomena instead of those accents being used, or on final syllables, where the high pitch was partially suppressed in the speaker's context, to serve to denote such suppression¹. Here the imperfection of this accentual system becomes evident; for it is obvious that in *ὁ δ' ἀγαθὸς ἀνὴρ ἀεὶ...* all the syllables do not really have the same pitch. Accordingly even in ancient times more accurate systems were put forward, which, we may say, fortunately never attained general circulation, but unfortunately have not even been properly handed down to us². For example many distinguish a *μέση*, which was recognized also by the Roman Varro; this middle pitch probably comprised besides the final syllables which properly speaking were oxytone all syllables following next after a high pitch and likewise the second half of a syllable having the circumflex³. Glaucus of Samos made the number as many as six: *ἀνειμένη* (= *βαρεῖα*), *μέση*, *ἐπιτεταμένη* (= *ὀξεῖα*), *κεκλασμένη* (= *περισπωμένη*), *ἀντανακλωμένη* and a sixth accent, of which not even the name or indeed anything else concerning it is established, except that it belonged to the subdivisions of the circumflex⁴. The *ἀντανακλωμένη* however has its origin in the union of gravis and acute on the same syllable: *δαῖς δᾶς*, *ἔαν ἦν*, and since the high pitch never occupied more than one mora, appears to have been the

¹ See *Bekk. Anec.* 674; confirmation of the ancient writing in the Egyptian fragment of Alcman. The papyri of the *Iliad* in London (Pap. Bankes and Pap. Harris) have likewise examples of several accents on the same word: *ἘΠἘCCEἚTONTO*; still both in them and in the fragment of the *Iliad* in the Louvre (Pap. 3) the *βαρεῖα* is principally employed to represent the oxytone or circumflex which properly belongs to the following syllable: *ΑΦΝΕἚΙΟΥ*, *ΔΟἚΙΟΙ*, *ΘΝΗἚΩΙ*, *ΕΠἘΙ* (Pap. B.); *ΕΠΕΙΔἘΗ*, *ΥΠΟΔΡἚἚ*, *ΕΦΕΤἚΔC* (Pap. H.); *ΠἘΡΑ*, *ἈἚΤΑΡ*, but *ΥΨΟἚ* (Pap. L.). In these instances it is remark-

able, that this gravis is often pushed so far to the right; but this must not lead us to suppose that it belongs to the last syllable; for we also find *ΠΟΛΙἚΝΤΕ* (the symbol being over *ω*), and in words with more than one gravis *ΑΜΟἚΒἘΔΙC*, *ΔΑΦΟἚΝἚΟΝ*.

² See Varro l. c. p. 528 f.

³ Weil-Benloew p. 13 ff.; Misteli *Ueber gr. Betonung* (Paderb. 1875), J. Hadley *Curt. Stud.* v. 417 ff.

⁴ The mss. give HC (joined to the preceding word); early editions give *νήτη* after a conjecture of Wase, Weil suggests *ἴση*, Keil *περικεκλασμένη*.

accentuation of all long vowels to which we give the acute¹. The grammarians, who only employed the accent for the texts of poets who wrote in some particular dialect, rightly considered the system of Glaucus too complicated; but the real language may nevertheless have been still more complicated in this respect, and this illustrates well, what terrible difficulties Greek pronunciation must have presented to foreigners. Our position is easier, since no one can control us, and though perhaps it is not right to be entirely indifferent as regards a better or worse pronunciation, there is no need on the other hand to be pedantic, as though the ancient Greeks might some day rise from their graves and call us to account for murdering their beautiful language.

¹ Boeckh *de metr. Pind.* p. 47, 52; Weil-Benloew p. 12 ff.; Corsen II² p. 803.



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e o; the former is predominant throughout, except in the case of *i*. Those vowels remain without any special designation in this respect, which are spoken too quickly to allow of their exact quality being observed ("voyelles réduites"). With regard to *mas* (plural of oblique cases of ἐγώ), when it is itself unaccented and follows an accented syllable, Psichari remarks, that it would be more correctly represented by *mās*, the *a* here inclining towards the *e*.—*ā ī* denote nasal vowels similar to the French sound.—The quantity is however according to our authority just as fluctuating as the quality; it depends on quickness of pronunciation, on context, on the intention of the speaker; a word may have a different quantity and quality of its vowel when isolated to that which it has in connected speech.—In the case of the consonants I have made use of the Greek letters δ θ χ to denote the spirants (English *this, think*; German *ach*); *k'* expresses the palatal *k* (*ky*, articulated in the middle of the palate); *s* and *z* the hard (voiceless) and soft (voiced) sounds.

As regards matters of detail I add (after Psichari) the following definitions and rules of pronunciation:

(a) *O* is in general open; thus in all cases above with the exception of the final syllable of ἀλλωνῶν, where owing to the nasalized sound (*-nō dis*) produced by the closely connected τῖς (*dis*), the sound became closed in the pronunciation of the individual taken as a standard. Psichari himself however does not pronounce so, though he uses an analogous pronunciation in the case of *e*: δὲν ἔχω, but δὲν τρέχω. In his own pronunciation he gives the closed sound to final *o*, whether accented or not; ὀκτώ ὄχτό, πτερόν *ftērō*, πίπτω *pěftō*. This as will be seen does not agree with the notation given above, but Psichari states that this pronunciation of final *o* as *o* is very widely spread. On the other hand he gives *ftēō* as his pronunciation of *πταίω*; in the case of *ftērō* (πτερόν) he leaves the *e* without designation.

(b) Accented *i* is almost always given as closed; when unaccented it appears to fluctuate; in both cases the origin of *i* (from *ι η υ* etc.) is perfectly indifferent. With reference to the dialectal pronunciation of *υ* (*ου*) as *ü* noticed above Psichari remarks that the statements of G. Meyer (*Gramm.*² p. 108) are very accurate; M. speaks there of the pronunciation as *iu* and gives as examples

from the dialect of Attica *κιουλιά κοιλιά, ἄχιουρα ἄχυρα, κιούρτος κύρτος*. Psichari however is inclined to regard this *ü* in all cases as a modern development after palatals, not as a survival from an older period; *τυρί* will be found to be in the dialect, where such phenomena occur, not *türi* but *tsüri* with palatalisation of the *t*.

(c) The transcription *πονηρόν βοιιρό* militates against the rule we have mentioned above, according to which unaccented *ir* (*ιρ, ηρ, υρ*) must become *er*. I assume that the Chiot thought it necessary to pronounce this word with its ecclesiastical associations ("the Evil One") in accordance with the writing. The apparent retention of the *e*-sound of *η* in the dialect of Trapezus is much doubted by Psichari: *τέν = τήν, Ἑλλενες* etc. might rest on modern phonetic laws; a scientific investigation of the matter has yet to be undertaken.

(d) Both *βασιλεία* and *ἁμαρτία* remain free from the detri- tion of *ι* before a vowel following, which has been referred to above (*vasilyá, amartyá*). The reason again appears to be, that they are ecclesiastical words, which are not subject to popular treatment.

(e) *Νᾱγιαστῆ̃ ναγαστι* is written by Psichari with *τ*, though as a rule in such cases the written form contrary to the pronunciation retains the *θ*. The rule that two voiceless spirants, just as two tenues, are not tolerated in immediate proximity, is in general extended to *σ* also, except that the ordinary pronunciation does not follow this out consistently in the case of *σφ*. On the other hand *φσ* is not allowable (except in the artificial pronunciation of the educated): *δουλεύσω* pr. *δουλέψω*, and so always in the interior of words, while in the case of final syllables *εϋς*, i.e. *εφς*, becomes *ες*: *βασιλές, Ὀρφές*. There are indeed no words, which terminate with two consonants in the nominative.—No exception is taken to the collision of voiced spirants (such as *βδ, εϋδ ευδ*).

In order to place in a true light the contrast of the old and the new, I add myself a transliteration of the Lord's Prayer, according to the original text, in the Hellenistic pronunciation of that period, without however venturing to denote the quality of the vowels; for the popular pronunciation of the first century A.D. is not known with sufficient accuracy to render that possible. Only in the case of *οι* I have given the closed pronunciation of the *ο*. I denote the

aspirates by k' , p' , t' ($= k + h$, $p + h$, $t + h$); s and z are the hard and soft s -sounds. I give the accents in the ordinary manner, except that I dispense with the grave in the case of monosyllabic words.

Pătēr hēmôn hō ēn tois ūrānois, hă(g)lăst'ētō tō ōnōmă (tōnōmă?) sū, ělt'ētō hē băsilēā (băsiliā) sū, gēnēt'ētō tō t'ělēmă sū hōs ēn ūrănô. kai ěpī gēs. Tōn ărtōn hēmôn tōn ěplūsion dōs hēmīn sēmērōn, kai ăp'ēs hēmīn tă op'ilēmătă hēmôn (tōp'ilēmăt'ēmôn?), hōs kai hēmīs (k'ēmīs?) ăp'ěkămēn tois ōp'ilětais hēmôn, kai mē īsěněikēs hēmăs īs pīrăzmōn, ăllă rhūsai (rhūsě?) hēmăs ăpō tū pōnērū.



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