7 5 ТНЕ

ME MELODY Α **S** · U AND R E

HAD long entertained opinions concerning the melody and rhythmus of modern languages, and particularly of the English, which made me think our theatrical recitals were capable of being accompanied with a bass, as those of the antient Greeks and Romans were, provided a method of notation were contrived to mark the varying founds in common fpeech, which I perceived to run through a large extent between *acute* and *grave*; though they feldom or never coincided, in their periods, with any of the tones or femitones of our ordinary mufic, which is an imperfect mixture of those two genera, called by the Greeks diatonic and chromatic.

I was of opinion that, in pronunciation, the voice moved up and down by fuch finall gradations as that, whether the degrees



degrees were by quarters of a diatonic tone, or by fmaller divisions, they feemed, in comparison with those of our *chromatico-diatonic*, to be by imperceptible flides.

But though I had often communicated these notions to many gentlemen of genius and learning, as well as capital artifts, hoping fome of them would turn their minds to the revival of the antient chromatic and enharmonic genera of mulic, and of a proper bass accompaniment for the declamation of the stage, fo long loft; yet I never digefted my own thoughts on paper, till my learned and honoured friend Sir John Pringle, Prefident of the Royal Society, defired me to give him, in writing, my opinion on the musical part of a very curious and ingenious work lately published at Edinburgh, on The Origin and Progress of Language, which I fhould find principally in part II. book ii. chap. 4. and 5. wherein feveral propositions, denying that our language has either the melody of modulation, or the rbythmus of quantity, gave occasion to the following fystematic attempt to prove the contrary. And as the fubitance of it was originally communicated to that gentleman in two letters, fo I have continued the fame form of division here, by giving it in two parts.

THE PROPOSITIONS CONTROVERTED.

See Origin and Progrefs, vol. II. p. 276, &cc. "That there is "no accent, fuch as the Greek and Latin accents, in any modern "language.—And laftly, the impoffibility for us, that are not accuftomed to it, to found those antient accents, has perfwaded "many people that it was as impoffible for the antients to do it." P. 298.

P. 208. "Mr. Foster would fain perfuade us, that in English "there are accents, fuch as in Greek or Latin; but to me, it is "evident that there are none fuch: by which I mean, that "we have no accents upon fyllables, which are mufical tones, " differing in acutenels and gravity. - For though there are " changes of voice in our fpeaking, from acute to grave, and " vice ver/a, these changes are not upon fyllables, but upon words " or fentences." P. 299. " Our accents-neither are nor can by " their nature be fubjected to any rule; whereas the antient, -----" are governed by rules, &c.--We have accents in English, " and fyllabic accents too; but there is no change of the tone in " them; the voice is only raifed more, fo as to be louder. upon " one fyllable than another. — That there is no other difference " is a matter of fact, that must be determined by musicians. " Now I appeal to them, whether they can perceive any dif-" ference of tone betwixt the accented and unaccented fyllable " of any word? And if there be none, then is the mulic of our " language, in this respect, nothing better than the music of a " drum, in which we perceive no difference except that of " louder or fofter."

PART





[4].

PART I.

W E suppose the reader to have some knowledge of the modern scale and notation of music, namely the *cbromaticodiatonic*; which may be defined practically, as,

A feries of founds moving difinctly from grave to acute, or vice ver/a (either gradually or faltim) by intervals, of which the femitone (commonly fo called) may be the common measure or divisor, without a fraction*, and always dwelling, for a perceptible space of time, on one certain tone.

Whereas the *melody of fpeech moves* rapidly up or down by *flides*, wherein no graduated diffinction of tones or femitones can be meafured by the ear; nor does the voice (in our language) ever dwell diffinctly, for any perceptible fpace of time, on any certain level or uniform tone, except the laft tone on which the fpeaker ends or makes a paufe. For proof of which definition we refer to experiment, as hereafter directed.

Whilft almost every one perceives and admits finging to be performed by the afcent and defcent of the voice through a variety of notes, as palpably and formally different from each other as the steps of a ladder; it feems, at first fight, fomewhat extraordinary, that even men of science should not perceive the

rapid

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^{*} I omit the critical distinction of major and minor tones and the diesis, because the modern chromatico-diatonic octave is practically divided into 12 femitones, supposed equal to the ear.

rapid flides of the voice, upwards and downwards, in common fpeech. But the knowledge of the various diffinct notes of ordinary mufic is not only laid open to those multitudes who learn that art; but also, being rendered visible and palpable to the unlearned, by the keys of organs and such like instruments, it happens that almost every one knows, the variety of mufic to arise, in part, from the difference of acute and grave tones.

In traveling through a country, apparently level, how few people perceive the afcents and defcents that would aftonifh them, if the man of art were to demonstrate them by his instrument, and to bring the sluggiss form a cascade! In like manner, when the modulation of the melody of speech shall be ripened into method by art, even the vulgar may be taught to know what the learned can now scarce comprehend.

A METHOD

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6 5

A METHOD OF DELINEATING NOTES OR CHARACTERS TO REPRE-SENT THE MELODY AND QUANTITY OF THE SLIDES MADE BY THE VOICE IN COMMON SPEECH.



Let the 5 black lines, fuch as are made ufe of in noting mufic, according to the ordinary modern method, be drawn, as in the margin, ftrong; and let them be inter-; lined with red or faint black; *videli*-

cet, with two continued lines and one dotted line between them, except in the interval between B and C, and in the interval between E and F, as hereafter explained. So that, fuppofing the ftrong black line at bottom to be that whereon the note G is to be marked, then the fpace between that and the red or faint line next above it, will be the fpace for $G + \frac{1}{4}$ tone, or G_{\times} (with a fingle crofs); and the faid red or faint line itfelf, being the firft red or faint line from the bottom, will be the line for $G + \frac{1}{2}$ a tone, or G_{\ast} (with a double crofs); and the fpace between this red or faint line, and the dotted line next above it, will be for $G + \frac{3}{4}$ tones, or G_{\ast} (with a triple crofs); the dotted line will be for

for A, the fame tone that would have been marked on the whole fpace, if there had been no red or faint lines at all. The addi--tional quarter tones of A×, A_#, and A_#, will proceed in like manner; and the fecond ftrong black line will be for the note B. the next fpace for $B + \frac{1}{4}$ tone or $B \times$; and here, omitting the continued red or faint line, we come immediately to the dotted one, which is for C; because the interval between B and C contains only two quarters, or a femitone; the interval alfo between E and F, being of the fame dimension, is provided for in a fimilar manner: and these lines, so drawn, I call the Scale.

Then, instead of using round or square heads for the notes to be marked on this fcale (as in the ordinary mufic) let us fubftitute Soping or curving lines, fuch as the expression may require; as /, or , or , or ; which lines, when drawn on the foregoing fcale, will eafily fhew through how many quarter tones the voice is to flide; and thefe I call the accents or notes of melody.

In the next place, the quantity or proportion of time allowed to each note, may be diffinguished by adding tails of different forms, always drawn upwards, to prevent confusion, by miltaking the head for the tail, or vice ver/a; because our heads have fome refemblance to the tails and types of quavers in the ordinary mufic, and our tails have fome refemblance to their heads of minims and briefs; as thus,

Various forms of tails to express the difference $\mathbf{\Xi}$

of quantity,

The heads which mark the accent or difference

of melody,

Tails

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Tails and heads joined together, the heads being at the bottom and the tails drawn upwards,

which, being thus joined, form, as it were, one note, expressing both *accent* and *quantity*.

Though we differ fomewhat in form, let us however (fince the meafures of time in mufic and in fpeech are both the fame) adopt the names by which the different quantities or proportions of time, are diffinguished in common mufic.

Such as a femi-brief = 2 minims = 4 crotchets = 8 quavers. For which let our marks be, f = 2

 $\exists = \exists \forall, \text{ or } \downarrow = \downarrow \downarrow, \text{ or } \downarrow = \downarrow \downarrow$

Then the note, on the foregoing fcale, over the interjection Ob! whose duration in time is only that of a crotchet, represents the melody of the voice to have made a flide from B to $E \times$, and thence down again to C *; a flight, up and down, through nine-teen quarter tones; and this I apprehend may very properly be called a *circumflex*.

In devifing a fcheme for expreffing on paper the mufical flides of the voice, in the melody of fpeech, I chofe one which might come as near as poffible to the modern notation of mufic, in order to make it the eafier to be comprehended by thofe whofe ideas of founds and meafure of time are already formed on that plan.

wards, thus, _____. Why did the Greeks mark their accents ho!

by exactly fuch floping lines, if they did not mean them as we do, for the expression of a flide upwards /, or of a flide downwards ?

I muft allow, however, that this coincidence between the marks which I have adopted and those used by the Greeks is fornewhat extraordinary, confidering that they called their most acute found, low; and their most grave found, high; and also that their distinctions of notes in writing, were not made by position as ours are (that is, the higher notes occupying the higher parts of the fcale, and vice versarily; but their notation ran in one ftrait line, each different note being distinguished by a particular character, like a line of common writing. But to folve this difficulty to myself, I have supposed their calling the gravest note, high; and the most acute, low; was in relation to the position of their notes on their instruments: for I think their expressions of

С

επίτατις

 $i\pi i\pi a \sigma i c$ and $a v a \pi a \sigma i c$ * as applied to the *acute*, and of $a v \epsilon \sigma i c$ to the *grave*, feem to imply that they confidered the voice as afcending to the first, and defcending to the last; for unless they had been led by this fentiment, they should have made their marks for the acute and grave quite contrary to what they really did, and to what I have done, by making them conformable to our modern notation of music.

If the learned author of the Origin and Progress of Language; had conceived that the melody of our speech was formed by flides, he would have found his quotation (page 278.) from Dion. Thrax. ($\phi \omega v \eta \varsigma \, a \pi \eta \chi \eta \sigma \iota \varsigma \, \epsilon v \alpha \varrho \mu o v i s, \eta \, x \alpha \tau \, a v \alpha \tau \alpha \sigma \iota v \, \epsilon v \tau \eta \, \delta \xi \epsilon i \alpha$ $\eta \, x \alpha$] $\delta \mu \alpha \lambda \iota \sigma \mu \delta v \, \epsilon v \tau \eta \, \beta \alpha \varrho \epsilon i \alpha, \eta \, x \alpha$] $\alpha \pi \epsilon \varrho i \pi \lambda \alpha \sigma \iota v \, \epsilon v \tau \eta \, \pi \epsilon \varrho \iota \sigma \pi \omega \mu \epsilon v \eta$) to have been perfectly agreeable to our system; and his difficulty to comprehend why the grave, marked on a last system, should (by some commentators be faid to) denote the acute would vanish, if he had considered that a grave accent must begin comparatively acute, in order to end grave, by fliding downwards.

The true fenfe of thefe words of Dionyfius is probably this: "That accent is the change of the enharmonic voice, by an "extent or ftretch up to the acute, or by levelling it to the grave, "or by making a circuit in the circumflex." In other words, fliding up to the acute, fliding down to the grave, and fliding up and down, without change of articulation in the circumflex.

Suppose the word ougavos to be noted in our manner: δv , with the acute, rose or flid up about a fifth; $\rho \dot{x}$, with a grave, fell or flid



* Aristid. Quint. fays expressly (in Meihom. vol. II. p. 8. and 9.) γίνελαι δέ, ή μέν βαgύτη;, κάταθεν άναφερομένε το πνεύμαζος ή δ' όξύτης, έπὶ πολῆς σφοϊεμένε; that is, a grave found is produced from the bottom or lowest part of the breath; and an acute found, from the top or upper part.

down

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[11]

down to the common level; confequently, to let $v\partial_{\zeta}$ flide to the *grave*, in like manner, the voice muft be allowed to get to the top, or acute part of the grave, in order to flide down again; otherwife, if the identical tone that $\rho\alpha$ ended on fhould be continued uniformly to the whole of the fyllable $v\partial_{\zeta}$, it would fall under the defcription or definition of common fong, by dwelling for a perceptible fpace of time on one tone. Wherefore I think it muft be underflood, that *acute* and *grave* were not fingle fixed tones, like the notes of diatonic mufic, but were the marks of vocal flides; *viz.* that the *acute* began grave and ended grave.

As all fpeech, profe as well as poetry, falls naturally under emphatical divisions, which I will call cadences: Let the thefis or pulfation, which points out those divisions, be marked by *bars*, as in ordinary music. Modern musicians, very improperly, use the words *accented* and *unaccented* in the place of thefis and arfis; but the proper sense of *accent* refers only to the melody of *acute* and *grave*, or diversity of tone; whereas the *thefis* and *arfis* should relate folely to *pulfation* and *remiss*. By which diversity of expression, *emphatic* and *remiss*, the modes of time are pointed out, and the measure governed.

Of modes of time there are only two genera; the one, where the whole time of a *bar*, or *cadence*, is divided by 2, and its fubduples or fub-triples; the other, where the whole time of a *bar* or *cadence* is divided by three, and its fub-duples or fub-triples. More fhall be faid of this and of emphasis hereafter, under the head of Measure or Rhythmus.

C 2

Almoft

Almost every syllable in our language (monofyllables excepted) is affected positively either to the *arfis* or *thefis*, though some are of a common nature, and may be used with either.

Our heroic, or ten fyllable lines, most commonly begin with a fyllable under arfis: and fuppofing the line to confift of 5 feet, or rather according to our fystem, of 5 bars or cadences of mufical time (exclusive of refts or pauses), there will be half a bar at the beginning, and half a bar at the end; that is, it will begin with arfis and end with thefis: but fometimes the affection of the first fyllable is fo positive to *thefis*, as to oblige the measure of the line to begin with a whole bar (for the beat, or thefis, conftantly falls on the first note or fyllable of the bar); but always fome refts or paules are neceffary, as being more agreeable both to the fense and to the measure; fo that, including the refls, a line of nominal 5 feet, or ten fyllables in words, occupies at leaft the time of 6 bars or cadences, as in the example following; in which the fyllable, ob! is positively emphatical and under thefis, and the fyllable our (agreeable to the fense in this expreffion) is, as positively, remis, and under artis.

But here let it be observed, that this *emphasis of cadence* and the *expression of loudness*, are not to be confidered as equivalent terms or affections of the same kind; for the *axsis*, or *remiss*, may be *loud*, or *forte*; and the *thesis*, or *emphatic*, *piano* or *soft*, occafionally. The *thesis and arsis* being periodically alternate, whether expressed or supposed; whereas the applications of the *forte* and *piano* are *ad libitum*, or *apropos*.

Therefore, befide the characters which diftinguish the variety of founds and of measure of time, there are others required to mark

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mark where the *forte* and *piano* fhould be expressed. The modern musicians have no other characters for these than the words themselves. However, they will be better supplied in our scheme by the asper ϵ , and lenis 2, of the Greeks *; the *crescendo*, *rinforzando*, or *fwell*, by \cdots ; and the *fmor zando*, or *dying away*, by \cdots ; all which will be more conveniently written under than over the words, to prevent their interfering with apostrophes or tittles of the letter *i*.

THE FOREGOING CHARACTERS APPLIED IN THE FOLLOWING; EXAMPLE.



In an attempt fo new in our age, as the reducing common fpeech to regular notes, it will not be expected that this first

• I mean, by adopting these marks, to infinuate a conjecture; and, if I am right, will not the necessfity of *two fpirits*, as well as two *accents*, be apparent?—Though very learned men have thought otherwise. In the ancient guttural languages, the forte was probably aspirated; that is, the found of the letter H was frequently thrown in: for a frequent energic aspiration is a.principal cause of the lrish vicious tone in pronouncing English; and that aspirated tone is derived from the original Irish language, which, like all the other antient languages, is extremely guttural.

effay

effay should be extremely accurate; for there is a great latitude in the flides not only of different speakers, but also of the same speaker at different times.

People who play by ear on inftruments of mufic, as well as those who play by notes, can feldom play their voluntaries a fecond time without great variation. Now all people, orators of pulpit, bar, and stage, in respect of the melody and rhythmus of language, are but as players of voluntaries exhibiting by ear, having no notes as a test or standard to prove their correctness, and to measure the degrees of their excellence.

We have heard of Betterton, Booth, and Wilks, and fome of us have feen Quin; the portraits of their perfons are probably preferved, but no models of their elocution remain; nor any proofs, except vague affertions and arbitrary opinions, to decide on the comparative merits in the way of their profeffion, between them and the moderns. Had fome of the celebrated fpeeches from Shakefpeare been noted and accented as they fpoke them, we fhould be able now to judge, whether the oratory of our ftage is improved or debafed. If the method, here effayed, can be brought into familiar ufe, the types of modern elocution may be tranfmitted to pofterity as accurately as we have received the mufical compositions of Corelli.

But perfection and accuracy in this art can only be attained by experience and a clofe attention, in effimating the pitch and extent of vocal flides by the ear, with the affiftance of a proper inftrument.

I hope, however, this example will flew, that the *melody of fpeecb* is formed by *flides*; and that by thefe, or fome other apt characters,

characters, the mufical expression of speech may be described and communicated in writing.

But if this effay be not fufficient to prove what the melody of *fpeecb* is, let us, in the next place, endeavour to fhew what it is not.

It is not like the proclamation of a parifh-clerk announcing the pfalm,



where the whole fentence is in one tone, without any change of acute or grave.



Oh, happinefs!---our being's end and aim!

Neither is it like the intonation of the choroftates, or precentor in our cathedrals, where the change of tone is made between one fentence and another, or between one word and another; that is, where the change is made, not upon fyllables, but upon coords or fentences.



Oh, happinefs!---our being's end and aim!

Now to fubmit thefe feveral examples to the judgement of common ears, let a bafs viol have a paper pafted on the whole length of the finger-board near the 4th ftring, marking all the chromatico-

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chromatico-diatonic ftops or frets, fuitable to that bass, from the bottom to the top, as in the figure represented below.

Γ

For the experiment of the flides, let the 4th ftring (though actually tuned to $\underbrace{\textcircled{}}_{CC}$) be called $\underbrace{\textcircled{}}_{G}$ for the fake of keeping our flides within the compass of the five black lines, or nearly fo; and also to keep the hand, making the flides, so high on the flift, as never to fall down to the open ftring.



Then while the player draws the bow over the 4th ftring, let him try, by fliding his left hand on the fame ftring up or down the finger-board, to imitate the rapid turns or flections of the voice in common fpeech, and he will foon find, that they will have either their beginnings or endings, for the moft part, in the intervals between the fretts; which intermediate ftops, we may call quarter tones: for it will be accurate enough for our purpofe, to call every degree of tone a quarter, that does not coincide with any tone or femitone of the chromatico-diatonic. And then, if he can pronounce, being thus affifted by the in-

ftrument, all the foregoing examples, as they are written or noted, the auditors will most probably agree in the following conclusions.

1st, That

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If, That the found or *melody of fpeech* is not monotonous, or confined like the *found of a drum*, to exhibit no other changes than those of *loud* or *fost*.

2dly, That the changes of voice from *acute* to grave, and vice ver/d, do not proceed by pointed degrees coinciding with the divisions of the chromatico-diatonic scale; but by gradations that feem infinitely smaller (which we call *flides*); and though altogether of a great extent, are yet too rapid (for inexperienced ears) to be distinctly sub-divided; consequently they must be submitted to fome other genus of music than either the diatonic or chromatic.

3dly, That these changes are made, not only upon words and upon fentences, but upon fyllables and monofyllables. Also,

4thly, and laftly, That in our changes on fyllables or monofyllables, the voice flides, at leaft, through as great an extent as the Greeks allowed to their accents; that is, through a fifth, more or lefs.

D