# Further developing a word mark similarity measurement framework

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## Part 1 – Testing the algorithm

#### Introduction

In my introductory article on mark similarity measurement<sup>1</sup>, I presented an initial version of a suggested algorithm for objectively quantifying the degree of similarity of a pair of word marks. Similarity assessment is a key element of the decision-making process in many trademark disputes, relating to the likelihood of competing marks generating confusion with each other.

The methodology proposed in the previous study makes use of four calculated components: two of these<sup>2</sup> generate scores (between 0 and 100) indicating the degree of *visual* (i.e. spelling) similarity; the other two<sup>3</sup> quantify the degree of *aural* (i.e. pronunciation) similarity. These two similarity types can therefore be quantified *separately*, or can be combined to create an *overall similarity metric* (*S*) for the two marks<sup>4</sup>. The basic metrics take no account of the *meaning* of the terms (i.e. *conceptual similarity*) or their level of distinctiveness (which is more relevant to the determination of *likelihood of confusion*), and also ignore any associated classes of goods and services, any logos, imagery or fonts (and the *case* (i.e. upper vs lower) of the marks).

In this first part of the follow-up, I compare the outputs of the similarity metric with those from other contexts in which similarity is assessed. Throughout the article, I use the term 'inconsistency' to refer to any deviation from the scenario in which a *fixed* 'decision tree' (i.e. the situation where, *all other factors being equal*, an objectively equivalent input will produce the same output) can be seen to have been applied. It is important to note, however, that in real dispute cases, the (manual) analysis will be highly nuanced and following established practice, so different decisions may (correctly) be reached in similar cases. Specific details of individual cases are not, however, considered further in this analysis.

## Analysis and testing – Case study 1: Recent UK trademark dispute case decisions

As an initial test of the meaningfulness of the similarity metrics, it is informative to compare their output against the point-of-law decisions from a series of recent trademark disputes. The dataset utilises only word mark vs word mark cases from UK courts (in part, because some of the algorithms are 'tuned' to be most appropriate for English-language content) in the last year, comprising 243 cases. The data<sup>5</sup> gives, for each case, the decision on whether the pairs of marks were deemed to be similar or different, according to each of four similarity types (aural, visual, conceptual, overall) (see Appendix A), but does not (in the summary overview) give more granular information (e.g. on the assessed *degree* of similarity in each case).

<sup>&</sup>lt;sup>1</sup> <u>https://circleid.com/posts/towards-a-quantitative-approach-for-objectively-measuring-the-similarity-of-marks</u>

<sup>&</sup>lt;sup>2</sup> The Python-based *fuzz.ratio* metric (*F<sub>lev</sub>*), and Jaro-Winkler similarity (*sim*<sub>j</sub>)

<sup>&</sup>lt;sup>3</sup> The *fuzz.ratio* metric applied to the Soundex ( $F_{sou}$ ) and NYSIIS ( $F_{NYSIIS}$ ) phonetic representations of the pair of marks

<sup>&</sup>lt;sup>4</sup> The overall visual similarity ( $S_{vis}$ ) can simply be quantified as  $S_{vis} = (F_{lev} + sim_j) / 2$ ; the overall aural similarity ( $S_{aur}$ ) as  $S_{aur} = (F_{sou} + F_{NYSIIS}) / 2$ ; and the overall (total) similarity (S) as  $S = (S_{vis} + S_{aur}) / 2$  (or, equivalently, as the mean of the four individual components)

<sup>&</sup>lt;sup>5</sup> Taken from the Darts-ip tool (<u>https://app.darts-ip.com/darts-web/login.jsf</u>)

The first point to note is that – looking purely at the data as presented, with no deeper analysis of case background or context – the decisions include significant degrees of subjectivity, and the decision-making process is not consistent throughout. Arguably, this is why a more objective approach could add value to the process of decision-making, but it does seem unavoidable that some subjective elements will always be involved.

Examples of the inconsistencies in the decisions across the dataset (beyond just cases where different decisions may have been reached on the *same case* at different times) are outlined below.

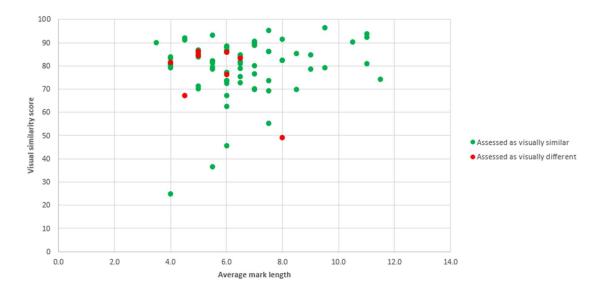
- Some pairs of marks which are clearly different if viewed *in their entirety* have been assessed to be similar, suggesting that the main consideration in these cases has been on (only) the primary distinctive element of the mark. Examples include: *Dose & Co.* vs *Dose Labs* ('Dose'); *Catapult Vision / Catapult One* vs *Catapult Consulting* ('Catapult'); *Alpha Boxing* vs *Alpha Force* ('Alpha'), etc. though this is not always the case. Furthermore, in some cases where one mark is entirely contained within the other, the pair have been deemed to be similar (e.g. *Amazon* vs *Amazon Food Trader Ltd*; *Very* vs *Veryco*; *Life* vs *ChopLife / Chop Life*; *Carbon* vs *MyCarbon*; *PXG Pharma* vs *PXG*; *Bad Boy* vs *BBCC / Bad Boy Chiller Crew*) and, in some cases, different (in at least either an aural or visual sense) (e.g. *Yoga* vs *Yoga Man*; *Ghost* vs *Ghostdancer CBD*; *Purple Computing / Purple* vs *Purplecube*). Part of the rationale in some of these cases seems to have been the disregarding of non-distinctive terms (e.g. 'Co', 'My', etc.), but this also is not consistent, and requires *a priori* assumptions.
- It might be reasonable to expect it not to be possible for a pair of marks to be similar (overall) if they differ according to at least one of the similarity types, but there are a number of exceptions to this (e.g. *Boss* vs *Bossvel*, *Goddess* vs *Godless*, *VFH* vs *VFHOnline*, *Folium Science* vs *Folium*, etc. – all deemed conceptually different, but similar overall; *Sky* / *Sky X* vs *Ysky* – deemed aurally and visually different, but similar overall). There is also no consistent application of 'rules' here – e.g. *Matters* vs *M4tter* and *MFlor* vs *HFlor* / *H Flor* were both considered to be aurally and visually similar but conceptually different, but the first pair was deemed similar overall and the second pair different.
- There are also a number of other case-specific inconsistencies for example, in two cases where the contested marks were almost identical between the cases (X12 / X14 / X16 / X15 / X13 vs vivo X15 / vivo X12 / vivo X14 / vivo X16 / vivo X13 and 6X / 7X / 9X / 8X / 5X vs vivo X6 / vivo X5 / vivo X7 / vivo X9 / vivo X8), they were found aurally and visually similar in one case, and different in the other.

With these inconsistencies in mind, it is difficult to formulate a test of the similarity algorithm(s) to determine whether it produces an output consistent with the case law. Furthermore, this would arguably not really be the desired behaviour for any such algorithm designed to produce a *consistent, objective* output.

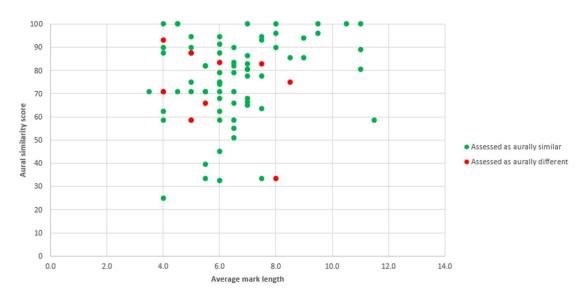
The simplest test is to consider only those cases where both of the contested marks are a <u>single</u> <u>word</u> (to avoid having to making any judgement as to which terms within a multi-word mark are primarily being assessed). There are 90 such cases within the database.

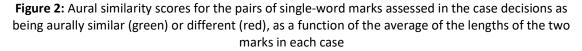
Figures 1 and 2 show the visual and aural similarity scores<sup>6</sup> (respectively) for the pairs of single-word marks assessed in the case decisions as being similar (shown in green) or different (shown in red) according to the same criterion / similarity type.

<sup>&</sup>lt;sup>6</sup> Noting that, in the calculation, any accented characters have been replaced with their non-accented equivalents



**Figure 1:** Visual similarity scores for the pairs of single-word marks assessed in the case decisions as being visually similar (green) or different (red), as a function of the average of the lengths of the two marks in each case





The analysis shows that there is little meaningful correlation between the assessments given in the case decisions and the scores assigned by the algorithm (and this comment is true regardless of the *length* of the marks) – although all pairs assigned a visual similarity score greater than 86, and an aural similarity score greater than 93, were manually deemed to be similar according to the same criterion.

Part of this lack of overall correlation is, however, probably due to the significant subjectivity (and apparent 'inconsistency') in the manual decisions. Table 1 shows the scores assigned by the

algorithms in each of the cases (with the pairs ranked by overall similarity score), and the results to appear – by manual inspection – to be meaningful (noting that there are some shortcomings, such as relatively poor reflection of distinct vowel sounds).

| Mark 1      | Mark 2                | Avg. mark<br>length | Visual sim.<br>score | Aural sim.<br>score | Overall sim.<br>score |
|-------------|-----------------------|---------------------|----------------------|---------------------|-----------------------|
| consiglieri | consigliera           | 11.0                | 94                   | 100                 | 97                    |
| fashiongo   | fashionego            | 9.5                 | 97                   | 96                  | 96                    |
| demiegod    | demigods              | 8.0                 | 92                   | 100                 | 96                    |
| 1link       | link                  | 4.5                 | 91                   | 100                 | 96                    |
| intellicare | intelecare            | 10.5                | 90                   | 100                 | 95                    |
| lovello     | lovelle               | 7.0                 | 90                   | 100                 | 95                    |
| configon    | configo               | 7.5                 | 95                   | 93                  | 94                    |
| chooey      | chooee                | 6.0                 | 88                   | 100                 | 94                    |
| asos        | asas                  | 4.0                 | 81                   | 100                 | 90                    |
| prinker     | prink                 | 6.0                 | 89                   | 92                  | 90                    |
| nutravita   | nootrovita            | 9.5                 | 79                   | 100                 | 90                    |
| resolution  | resolute              | 9.0                 | 85                   | 94                  | 89                    |
| naturli'    | natureal              | 8.0                 | 83                   | 96                  | 89                    |
| gobox       | g-box                 | 5.0                 | 84                   | 95                  | 89                    |
| prinz       | prinse                | 5.5                 | 81                   | 95                  | 88                    |
| realme      | realmz                | 6.0                 | 88                   | 88                  | 88                    |
| cintra      | citra                 | 5.5                 | 93                   | 82                  | 88                    |
| testex      | test-x                | 6.0                 | 88                   | 87                  | 87                    |
| curve       | crv                   | 4.0                 | 82                   | 93                  | 87                    |
| energeo     | enerjo                | 6.5                 | 84                   | 90                  | 87                    |
| pyra        | prya                  | 4.0                 | 84                   | 90                  | 87                    |
| kramer      | cramer                | 6.0                 | 86                   | 88                  | 87                    |
| billionaire | zillionaire           | 11.0                | 92                   | 81                  | 86                    |
| vidas       | vidya                 | 5.0                 | 85                   | 88                  | 86                    |
| yorxs       | yorks                 | 5.0                 | 85                   | 88                  | 86                    |
| burgerme    | burgerly              | 8.0                 | 83                   | 90                  | 86                    |
| mbet        | m-bets                | 5.0                 | 85                   | 88                  | 86                    |
| pikdare     | pi-kare               | 7.0                 | 89                   | 83                  | 86                    |
| geneverse   | genv3rse              | 8.5                 | 85                   | 86                  | 85                    |
| retaron     | retiron               | 7.0                 | 90                   | 81                  | 85                    |
| goddess     | godless               | 7.0                 | 90                   | 81                  | 85                    |
| snuggledown | snugglemore           | 11.0                | 81                   | 89                  | 85                    |
| philips     | philzops              | 7.5                 | 86                   | 83                  | 85                    |
| noughty     | naughtea              | 7.5                 | 74                   | 95                  | 84                    |
| tygrys      | tigris                | 6.0                 | 74                   | 95                  | 84                    |
| george      | georgine              | 7.0                 | 91                   | 78                  | 84                    |
| mbfw        | mvfw                  | 4.0                 | 80                   | 88                  | 84                    |
| hanson      | hansol                | 6.0                 | 88                   | 79                  | 84                    |
| zemo        | zoomo                 | 4.5                 | 67                   | 100                 | 84                    |
| ellesse     | elliss                | 6.5                 | 83                   | 84                  | 83                    |
| scaffeze    | scaffx                | 7.0                 | 80                   | 87                  | 83                    |
| maplab      | maplab.world          | 9.0                 | 79                   | 86                  | 82                    |
| matters     | maplab.wond<br>m4tter | 6.5                 | 82                   | 80                  | 82                    |
|             |                       |                     |                      |                     |                       |
| createme    | create.               | 7.5                 | 86                   | 78                  | 82                    |

| patter      | yatter       | 6.0  | 86 | 78 | 82 |
|-------------|--------------|------|----|----|----|
| treca       | trea         | 4.5  | 92 | 71 | 82 |
| foltene     | foltex       | 6.5  | 84 | 79 | 81 |
| lucite      | luci         | 5.0  | 87 | 75 | 81 |
| dcsl        | dcs          | 3.5  | 90 | 71 | 81 |
| fransa      | fanza        | 5.5  | 79 | 82 | 80 |
| kelio       | kleeo        | 5.0  | 70 | 90 | 80 |
| zara        | zareus       | 5.0  | 71 | 88 | 79 |
| very        | veryco       | 5.0  | 87 | 71 | 79 |
| saypha      | shaype       | 6.0  | 74 | 84 | 79 |
| carbon      | mycarbon     | 7.0  | 89 | 68 | 78 |
| z-biome     | biome        | 6.0  | 87 | 68 | 77 |
| chef        | chefchy      | 5.5  | 82 | 71 | 77 |
| atma        | atmaspa      | 5.5  | 82 | 71 | 77 |
| rabe        | rase         | 4.0  | 81 | 71 | 76 |
| azure       | azurity      | 6.0  | 77 | 71 | 76 |
| noughty     | nouti        | 6.0  | 76 | 74 | 76 |
| suntech     | suntank      | 7.0  | 70 | 81 | 75 |
| live        | vive         | 4.0  | 70 | 71 | 75 |
| repevax     | epvax        | 6.0  | 87 | 63 | 75 |
| sherco      | charco       | 6.0  | 72 | 75 | 73 |
| cazoo       | carkoo       | 5.5  | 72 | 66 | 73 |
| coversyl    | covixyl-v    | 8.5  | 70 | 75 | 73 |
| zara        | zarzar       | 5.0  | 86 | 59 | 72 |
| hyprr       | hypernft     | 6.5  | 73 | 71 | 72 |
| fido        | fiio         | 4.0  | 81 | 63 | 72 |
| pockit      | mypocket     | 7.0  | 76 | 67 | 72 |
| axis        | traxis       | 5.0  | 84 | 59 | 71 |
| ulma        | luma         | 4.0  | 83 | 59 | 71 |
| idee        | idee-home    | 6.5  | 75 | 66 | 71 |
| live        | life's       | 5.0  | 70 | 71 | 71 |
| salio       | saliogen     | 6.5  | 85 | 55 | 70 |
| e-bulli     | bullit       | 6.5  | 81 | 59 | 70 |
| waken       | wakeful      | 6.0  | 77 | 59 | 68 |
| airbnb      | airbrick     | 7.0  | 70 | 65 | 68 |
| resolva     | consolva     | 7.5  | 69 | 64 | 66 |
| glenfiddich | inverfiddich | 11.5 | 74 | 59 | 66 |
| hotpatch    | patch        | 6.5  | 79 | 51 | 65 |
| boss        | bossvel      | 5.5  | 82 | 40 | 61 |
| bloo        | bluuwash     | 6.0  | 46 | 71 | 58 |
| vfh         | vfhonline    | 6.0  | 67 | 45 | 56 |
| boss        | kissboss     | 6.0  | 63 | 33 | 48 |
| swift       | microswift   | 7.5  | 55 | 34 | 40 |
| rolex       | dermarollex  | 8.0  | 49 | 34 | 41 |
| sane        | cbdsane      | 5.5  | 37 | 34 | 35 |
| md          | intimd       | 4.0  | 25 | 25 | 25 |
| iliu        | muniu        | 4.0  | 25 | 25 | 25 |

**Table 1:** Visual, aural and overall similarity scores (as assigned by the algorithm(s)) for the pairs ofsingle-word marks

#### Analysis and testing - Case study 2: Trademark similarity searches

As a second validation, it is informative to compare the similarity score(s) as described above (hereafter described as the '**similarity score(s)**') against those given as outputs from a trademark watching service. As an example, I consider a set of around 1,800 findings from watches being run for around 30 distinct marks. The trademark watching service reports on identified third-party trademark applications deemed in each case to be similar to the mark being watched, and returns a similarity measurement (hereafter described as the '**TM-watch similarity measurement**') (expressed as a percentage) for the pair of marks, also generated via a proprietary algorithm. This algorithm takes into account a number of factors, including numbers of letters in common and a series of alphabetical, phonetic and grammatical rules<sup>7</sup>.

For simplicity:

- I consider only trademark watches where the watched mark is a single-word word mark.
- I focus only on watches monitoring *all* product and service classes, to ensure that the similarity score output by the service reflects *only* the similarity of the word marks, and *not* the degree of overlap of the classes.
- I exclude any results where the identified trademark contains non-English characters (approx. 300 cases).
- I convert all marks (watched *and* identified) to lower-case text.

In theory (if both the similarity score and the TM-watch similarity measurement algorithms work well), we would expect their values (for the same pairs of marks) to correlate well with each other. However (as for the case decisions considered in Case Study 1), there do seem to be some inconsistencies in the TM-watch similarity measurement algorithm. For example:

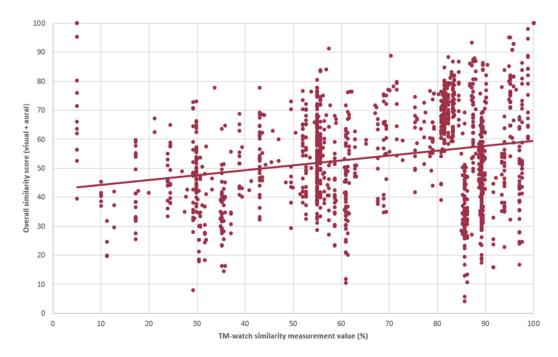
- In some cases, *identical* matches, or cases where the identified mark is identical to the watched mark plus just an additional word, are given low TM-watch similarity measurement values (~5%).
- In many cases, identified marks containing the watched mark are allocated very high values, regardless of the length of the identified mark and the degree to which the watched mark may feature just as an unrelated sub-string within it. This may be problematic / non-meaningful if (for example) the identified mark is a very long / multi-word string, and the corresponding watched mark is only (say) a two-character string contained within one of the words.

However, other apparent inconsistencies (such as instances of the same type of *visual* variation – e.g. the replacement of one character in a two-character mark – not always being allocated the same TM-watch similarity measurement value) *might* be intended behaviour (e.g. being intended to reflect the effect on *pronunciation* – i.e. *aural* similarity / difference). Admittedly, the full details of the algorithm used by the trademark watching service are not publicly available, and may include additional sophisticated elements which impact on the outputs.

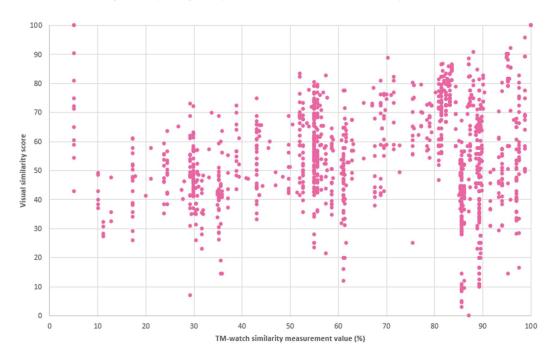
Overall, it will be instructive to assess whether the similarity score is able to provide a better means of sorting (by potential relevance) the findings from the watch service, meaning that it could therefore be used to 'post-process' the watch-service data and build efficiencies into the review process.

<sup>&</sup>lt;sup>7</sup> Trademark watch service provider, pers. comm., 09-Aug-2024

The figures below show the relationship between the TM-watch similarity measurement value for each pair of marks and the overall similarity score (Figure 3) and the score reflecting just visual (i.e. spelling only) similarity, for the same pairs.



**Figure 3:** The relationship between TM-watch similarity measurement value and overall similarity score (i.e. considering <u>both</u> spelling and pronunciation) for the (~1,500) pairs of marks in the dataset



**Figure 4:** The relationship between TM-watch similarity measurement value and visual similarity score (i.e. considering spelling <u>only</u>) for the (~1,500) pairs of marks in the dataset

The data shows little meaningful correlation between the two metrics (with a weak positive correlation (corr. coefficient = +0.233) for the overall similarity score). In part, this seems to be because there is a lot of 'noise' / inconsistency in the TM-watch similarity measurement value (noting, for example, the anomalous cluster of pairs of marks assigned a very low value of ~5%).

The behaviour of the algorithms, and the relationship between them, may be easier to understand if we consider only the simpler cases where the identified mark (as well as the watched mark) is also just a single word (rather than a multi-word phrase). This relationship is shown in Figure 5, where the results are also categorised by the length (in characters) of the watched mark (to determine whether one or both algorithms perform better with marks of different lengths).

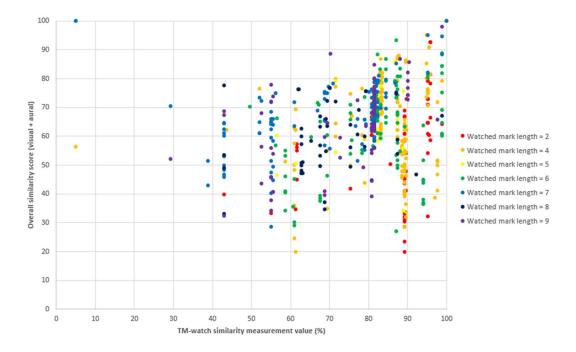


Figure 5: The relationship between TM-watch similarity measurement value and overall similarity score for the pairs of marks in which both the watched and the identified mark are single-word strings

Once again, there is no strong correlation (corr. coefficient = +0.231) and no obvious pattern in the data.

The lack of correlation actually seems to be largely due (as discussed) to the relatively poor performance of the TM-watch similarity measurement algorithm. The similarity score calculation seems to provide a much better measurement of (a subjective manual judgement of) the 'actual' similarity between the pairs of marks. This is illustrated by Tables 2 and 3, showing (in encoded form<sup>8</sup>) (for the full dataset, including multi-word identified marks) the top- and bottom-ranked pairs of marks by overall similarity score – which seems to provide a (subjectively) reasonable assessment of similarity – and the fact that there is a wide range of TM-watch similarity measurement values present within the groups of most-similar and least-similar pairs. It does also seem, therefore, that

<sup>&</sup>lt;sup>8</sup> In these tables, all marks are shown in an encoded form, to obfuscate the names of the actual marks being watched, so as to maintain confidentiality. The encoding is caried out by replacing every instance of each letter with the same alternative letter. This thereby generates pseudo-random strings, but in which a visual assessment of similarity across the individual pairs can still be carried out.

the application of the similarity score could be an effective tool in post-processing the results from the trademark watch, and allowing for a quicker review process and identification of genuinely high-risk marks.

| Mark 1<br>(watched) | Mark 2<br>(identified) | Visual sim.<br>score | Aural sim.<br>score | Overall sim.<br>score | TM-watch sim.<br>meas. value |
|---------------------|------------------------|----------------------|---------------------|-----------------------|------------------------------|
| jddi                | jddi                   | 100                  | 100                 | 100                   | 100                          |
| dgwf                | dgwf                   | 100                  | 100                 | 100                   | 100                          |
| rjoct               | rjoct                  | 100                  | 100                 | 100                   | 100                          |
| fggwoc              | fggwoc                 | 100                  | 100                 | 100                   | 5                            |
| fccjfg              | fccjfg                 | 100                  | 100                 | 100                   | 100                          |
| qgffiwo             | qgffiwo                | 100                  | 100                 | 100                   | 5                            |
| dwbgcwi             | dwbgcwi                | 100                  | 100                 | 100                   | 100                          |
| bfigegiri           | bfigegir               | 96                   | 100                 | 98                    | 99                           |
| ajwbgeioj           | ajwbg & eioj           | 91                   | 100                 | 95                    | 5                            |
| dwbgcwi             | dwbgcii                | 90                   | 100                 | 95                    | 95                           |
| dgwf                | dgw                    | 90                   | 100                 | 95                    | 95                           |
| dwbgcwi             | dwjgcwi                | 89                   | 100                 | 95                    | 99                           |
| dgjaaj              | dgja                   | 87                   | 100                 | 93                    | 87                           |
| ft                  | ftj                    | 86                   | 100                 | 93                    | 96                           |
| ft                  | fti                    | 86                   | 100                 | 93                    | 96                           |
| qgffiwo             | qgff fwof              | 83                   | 100                 | 91                    | 57                           |
| dgwf                | dgwc                   | 82                   | 100                 | 91                    | 95                           |
| dgwf                | dgww                   | 82                   | 100                 | 91                    | 95                           |
| rjbjci              | rjb                    | 78                   | 100                 | 89                    | 99                           |
| bfigegiri           | bfigegirft             | 89                   | 89                  | 89                    | 70                           |
| fccjfg              | fccjii                 | 77                   | 100                 | 88                    | 82                           |
| dwbgcwi             | dwpgcwi                | 89                   | 88                  | 88                    | 99                           |
| dgwf                | dgwci                  | 76                   | 100                 | 88                    | 88                           |
| dgwf                | dgwcg                  | 76                   | 100                 | 88                    | 88                           |
| dwaf                | dwwac                  | 75                   | 100                 | 87                    | 87                           |
| bfigegiri           | jbfigegir              | 91                   | 83                  | 87                    | 88                           |
| icge                | ifgef                  | 74                   | 100                 | 87                    | 83                           |
| dwaf                | dfafg                  | 74                   | 100                 | 87                    | 87                           |
| rjbjci              | rfjjfi                 | 74                   | 100                 | 87                    | 84                           |
| qgffiwo             | qgffiwo ffjc           | 83                   | 90                  | 86                    | 98                           |
| dgwf                | 4dgwc                  | 73                   | 100                 | 86                    | 89                           |
| rjoct               | rcojtc                 | 72                   | 100                 | 86                    | 87                           |
| ajwbgeioj           | ajwbgefbw              | 77                   | 95                  | 86                    | 90                           |
| dgwf                | dgwc21                 | 71                   | 100                 | 86                    | 89                           |
| dgwf                | dgwc 3                 | 71                   | 100                 | 86                    | 89                           |

Table 2: Top-ranked pairs of marks (shown in encoded form) by overall similarity score

| Mark 1    | Mark 2  | Visual sim. | Aural sim. | Overall sim. | TM-watch sim. |
|-----------|---|-------------|------------|--------------|---------------|
| (watched) | (identified)  | score       | score      | score        | meas. value   |
| rjbjci    | igt tjdci tjggfqc   | 41          | 6          | 23           | 35            |
| qp        | op ocawwfwjid pwfgjww<br>jdtce                                    | 29          | 18         | 23           | 86            |
| fccjfg    | tcaiw dfqf fcofg 77   | 40          | 7          | 23           | 35            |
| rjbjci    | ifiiwg tjdci  | 37          | 9          | 23           | 59            |
| fccjfg    | fdwfdbjfo fwjf  | 31          | 15         | 23           | 94            |
| qp        | qf ejdfdbjfg jdiwofdbc<br>bifafdw                                 | 29          | 16         | 22           | 86            |
| rjbjci    | wdtco wgc tjdci   | 35          | 8          | 21           | 30            |
| rjbjci    | iwffco tjdci  | 33          | 9          | 21           | 61            |
| rjbjci    | iaojdq tjdci  | 33          | 9          | 21           | 61            |
| qp        | iwfo-qf   | 11          | 29         | 20           | 89            |
| dgwf      | ridtcodgwci   | 20          | 20         | 20           | 61            |
| rjbjci    | qgidfgtji qowai tjbfjff   | 31          | 9          | 20           | 11            |
| gcggidcc  | wfffd twf ichigj  | 28          | 11         | 20           | 11            |
| qp        | jd tj qi  | 10          | 29         | 20           | 86            |
| dgwf      | rjcdco dgww   | 20          | 18         | 19           | 89            |
| qp        | foiff qw  | 10          | 27         | 19           | 89            |
| rjbjci    | cfdofbc cwoiacfd tjdci  | 26          | 11         | 18           | 30            |
| icge      | fwigci wcf icdifij jcdjjffwfd & jcawfifd wcg ficgj jdtidcijf      | 30          | 7          | 18           | 32            |
| rjbjci    | biotjdf fe fjbgci & bctjbgci<br>ffojipwcojf dfo fftojt-fe         | 31          | 5          | 18           | 30            |
| qp        | iifii fp  | 10          | 25         | 18           | 89            |
| qp        | gjec wi qi  | 9           | 25         | 17           | 86            |
| ft        | aoie c. & cggjc'i fjttgc ibgiig ie<br>ibjcdbc ft fiwof aco fiacof | 28          | 5          | 17           | 97            |
| rjbjci    | oiwg afgcwwcd wdt tjcgci<br>fcgo                                  | 29          | 4          | 16           | 35            |
| ft        | gif bid fttw  | 15          | 18         | 16           | 36            |
| jddi      | wcoofj wcoofj igt tjdc  | 31          | 1          | 16           | 92            |
| jddi      | wcoofj wcoofj igt tjdc  | 31          | 1          | 16           | 92            |
| dgwf      | fcejbi bjww dgwci   | 15          | 15         | 15           | 35            |
| ft        | wgc iwaocfc tft   | 12          | 15         | 13           | 86            |
| qp        | ffjc wiwo qf gfaaw  | 5           | 21         | 13           | 86            |
| rjbjci    | gfofidw tjdci   | 16          | 8          | 12           | 61            |
| ft        | wgc iwaocfc tft.bif   | 10          | 12         | 11           | 86            |
| rjbjci    | dofdt tjdcq   | 12          | 9          | 11           | 61            |
| ft        | idc-bgjbj fa  | 7           | 9          | 8            | 29            |
| qp        | fa rrr.fwwi-afowi.qo  | 5           | 7          | 6            | 86            |
| qp        | gcw jw jd   | 3           | 5          | 4            | 86            |

Table 3: Bottom-ranked pairs of marks (shown in encoded form) by overall similarity score

#### Conclusions

The analysis does not show any strong correlation between the overall similarity score and the other two measures of similarity considered in this article – namely, (a) the subjective case decisions from recent UK trademark disputes, and (b) the more deterministic TM-watch similarity measurement algorithm. However, a significant factor in this lack of correlation seems to be the apparent inconsistencies (i.e. non-determinism) in these other types of assessment, rather than reflecting significant shortcomings in the similarity score algorithm in itself.

The similarity score does provide what appears (subjectively) to provide a meaningful measure of 'actual' similarity, meaning its application could lend it to uses in post-processing data drawn from a range of sources (such as trademark watching services) and potentially in helping to allow greater consistency and a more scalable, reproduceable, quantitative and objective basis for dispute resolution and case-law formulation.

There are, however, a number of enhancements still to be made to the algorithm. The current version takes no account of the meaning of terms (i.e. *conceptual* similarity) or of other factors such as the similarity of associated goods and services classes, or the level of distinctiveness of the marks (which is perhaps more relevant specifically to a determination of likelihood of confusion, rather than simply similarity).

Finally, it would certainly not be reasonable to suggest that this type of formulaic approach is preferable to a full manual assessment, taking into account the wide range of additional nuanced and subjective factors which are relevant in a dispute case. Rather, I am suggesting that these types of quantitative algorithm can be used as (consistent, reproduceable) 'tools' to be utilised as part of the overall similarity assessment frameworks relevant to the resolution of intellectual property disputes.

## Part 2 – Subsequences and substrings

#### Introduction

Following on from the analysis presented in Part 1, it is useful to consider some additional characteristics of word marks which can further be used in a determination of similarity. In this follow-up, I again consider the dataset of recent UK trademark disputes (Case study 1 of Part 1), though now considering *all* 243 cases, rather than just the single-word marks<sup>9</sup>.

In Part 1, I noted that some of the case decisions appeared to have been influenced, at least in part, by a subjective assessment of the elements of the marks which were deemed to be the 'distinctive' parts (e.g. 'Dose' in *Dose & Co.* vs *Dose Labs*).

In order to try and build a formulation to try and address this point, it is useful to consider characteristics of the subsequences and substrings (i.e. groups of characters) contained within the marks.

#### First steps towards formulating a methodology

One characteristic often considered in analyses of these types is the concept of the **longest common subsequence** (hereafter referred to as the '**LCSSQ**') – as also referenced in my original study on mark similarity – between a pair of strings. This is defined as the longest set of characters which appears in the same *order* (though not necessarily in *consecutive positions*) in both strings (i.e. generally (through not necessarily) *non-contiguous* characters). This parameter is also the basis of the Ratcliff-Obershelp similarity metric<sup>10,11</sup>, defined as twice the length of the LCSSQ divided by the sum of the lengths of the two strings (giving a value between 0 and 1) – essentially, the length of the LCSSQ expressed as a proportion of the average of the length of the two strings.

Whilst the LCSSQ is a useful characteristic – particularly in cases of alternative spellings, such as *Sole Sister* vs *Soulsistar*, where it is equal to '<u>solsistr</u>' – it can lead to some misleading results. Consider, for example, the case of *Dreams* vs *Dream Big Make Dua Move Mountains*; the LCSSQ in this case is (the apparent full word) '<u>dreams</u>', although the 's' identified in the latter case is actually the character at the end of 'mountains'. Accordingly, it can be instructive also to consider the **longest common substring** (hereafter referred to as the '**LCSST**'), in which the characters must appear in both strings in the same order *and* in consecutive positions (i.e. *contiguous* characters) (which, in the case of the above marks is '<u>dream</u>').

Having identified the LCSSQ and LCSST, useful insights can be obtained by determining the 'remainders' of each string, i.e. the parts which remain after the (first instance of) the common subelements are removed. The analysis of the full set of pairs of disputed marks is shown in Appendix B. Arguably a better metric than (just) Ratcliff-Obershelp similarity is to also calculate an equivalent score, using the LCSSTs (rather than the LCSSQs), and then calculate the *average* of these two scores

<sup>&</sup>lt;sup>9</sup> In creating a 'clean' dataset, the following modifications to the 'raw' data have been made:

<sup>•</sup> In cases where multiple distinct marks have been cited in a case, just one has been considered. The selected mark is generally the 'simplest' of the set and/or the one (subjectively) most similar to the other disputed mark or, all other factors being equal, the first mark in the list

<sup>•</sup> All marks have been converted to lower-case characters (i.e. case is disregarded)

<sup>•</sup> All accented characters have been replaced by their non-accented equivalents

<sup>•</sup> All ampersands (&) appearing as space-separated words have been replaced by the word 'and'

 <sup>&</sup>lt;sup>10</sup> <u>https://www.drdobbs.com/database/pattern-matching-the-gestalt-approach/184407970?pgno=5</u>
 <sup>11</sup> https://xlinux.nist.gov/dads/HTML/ratcliffObershelp.html

(to produce a metric which is here termed the 'modified Ratcliff-Obershelp similarity score'); the data in Appendix B is sorted by this score.

Invariably, the data produced by this purely mathematical approach may require some 'cleaning up' prior to any further analysis, as it will generate some apparent anomalies. For example, in *Holiday People* vs *The Holiday People*, the LCSSQ is '<u>holiday people</u>', which actually generates a remainder for the second mark of '<u>te h</u>' – since the extraction algorithm removes the LCSSQ's initial 'h' from the word 'the' (the first place it appears in the overall string) rather than the word 'holiday' – and so the remainder should instead probably be 'corrected' to '<u>the</u>'. Similarly, for *PT Powerpod* vs *Powerpod*, the remainder for the first mark is extracted as '<u>t p</u>', rather than the '<u>pt</u>' it arguably 'should' be.

Taking the above caveat on board, the analysis does provide some useful insights. The most obvious (mathematically trivial) case is where the two marks are identical, in which case both the remainders are non-existent (blank / null / empty), and the modified Ratcliff-Obershelp similarity score is 1 (as for the top four examples in the Table in Appendix B). Cases where *one* remainder is blank imply that one mark is *contained* within the other.

Beyond this, the LCSSQ / LCSST analysis does provide a framework making it possible to conveniently review the elements which the marks have in common. For example, in the *Dose & Co.* vs *Dose Labs* case, the remainders after extracting the LCSST are, respectively 'and co.' and 'labs'. When assessing overall similarity, it might be reasonable to disregard remainders which are extremely non-distinctive (such as 'and co.'); arguably, however, 'labs' might be deemed to be a more distinctive / descriptive term, which might mean that the overall assessed level of similarity should be lower than if the remainders for *both* marks were less distinctive terms. Other non-distinctive terms in the dataset include 'the', 'my', and so on.

Attempting to quantify the degree of distinctiveness (or non-distinctiveness) of the terms in the mark remainders is a more difficult prospect. In the original study, the numbers of results returned by search engines were explored as a proxy for this parameter. However, in these types of analysis, this approach may not be very productive, as even more distinctive terms such as 'labs' would generate large numbers of results. Perhaps a better question is whether the remainder keywords overlap significantly with the *goods and services* of the other mark (e.g. if *Dose & Co.* offered laboratory services, the assessed degree of similarity (by virtue of the use of the term '*labs*' in the other mark) should potentially be assessed as being much higher).

Similar comments might also apply to other pairs which differ only in a keyword relating to business area. Examples in the dataset include *Stones* vs *Stone Brewing*, *Whitehorse Liquidity Partners* vs *Whitehorse*, *PXG* vs *PXG Pharma*, and *Unity* vs *Unity Real Estate Ltd*. It might be reasonable to expect that similarity should be assessed to be lower if the remainders (i.e. the differences between the marks) are <u>both</u> distinctive and relate to *different* business areas or brand descriptors – such as *Catapult Vision* vs *Catapult Consulting* or *Spear & Jackson Predator* vs *Predator Gutter Vacuum*.

It is essential that consideration of goods and services – and the degree to which these are likely to be familiar to general consumers – should always be incorporated into any overall similarity assessment framework. For example, in *Honda* vs *Honbike* – objectively not highly similar as *words* – relevant points to consider might be the extent to which the Honda brand is known to be associated with motorbikes, and whether it is well-known enough that even an abbreviated variant ('Hon') would evoke a brand association in the mind of the average consumer.

In other cases, similarity between the word types in the remainders might imply an overall greater similarity between the marks – such as *Lemon Perfect* vs *Peach Perfect*, where the remainders after

the removal of the LCSST are 'lemon' and 'peach' (both fruits), *Glenfiddich* vs *Inverfiddich*, where the remainders are 'Glen' and 'Inver' (both common terms in Scottish place-names), or *Karmacoin* vs *Karmacash*.

Another consideration is that if the remainders are very short and/or meaningless (say, single letters), this might also imply a greater degree of similarity between the marks. However, this assertion may also be dependent on the positions of the distinct elements within the strings – for example, 'Consiglieri' and 'Consigliera' might be deemed to be more similar to each other than are 'Lotus' and 'Motus' (both cases differing by a single character) – particularly when factors such as local-language significance (e.g. just a potential difference in gender) are taken into account.

#### Conclusions

The discussion presented in this article has stopped a long way short of attempting to define a full framework for mark comparison using analysis of LCSSQs and LCSSTs. Nevertheless, an analysis of pairs of marks (as presented in Appendix B) does provide a useful framework for conveniently reviewing the elements that pairs of marks have in common, and those which are distinct from each other – which is key to an overall assessment of similarity. In this analysis, it is useful to consider both LCSSQs and LCSSTs together, as marks which are distinct in differing ways may be more suitable for analysis using one characteristic than the other.

The modified Ratcliff-Obershelp similarity score – which quantifies the size of the common subelements as a proportion of the length of the original strings – is also a useful metric in its own right, which could easily be incorporated into an enhanced version of the similarity score presented in the previous studies.

Building on these ideas, it should be possible to build the beginnings of a frameworks of mark similarity comparison utilising sub-element analysis, to augment the ideas presented previously. Such a framework would likely need to incorporate a number of key ideas, such as analysis of the 'remainders' for each of the marks (i.e. the portions which are left when the common elements are removed) and how descriptive they are, how closely they overlap with the goods and services of the other mark, how thematically similar they are to each other, and the positions within the original marks at which they appear.

## Part 3 – Phonemizing

#### Introduction

The initial study on mark similarity measurement utilised two distinct models to generate the *phonetic* representation of word marks<sup>12</sup>, from which the degree of (aural) similarity in the <u>pronunciation</u> of pairs of marks could be quantified (by measuring the similarity of the phonetic representations using the Python-based *fuzz.ratio* algorithm<sup>13</sup>). The two models were Soundex, which represents each mark as a four-character string, and NYSIIS (New York State Identification and Intelligence System). However, both of these encodings have certain shortcomings, not least the fact that they poorly handle (or disregard entirely) the vowel sounds within the strings and – in the case of Soundex – do not encode anything beyond the fourth consonant.

In this article, I consider the application of a (Python-based) model (named '*Phonemizer*') for encoding the marks in International Phonetic Alphabet<sup>14</sup> (IPA) format, which better handles the full string in each case and – unlike some other text-to-IPA encoders – can handle *arbitrary* strings, rather than just dictionary terms.

#### Methodology

The IPA is a means of representing strings phonetically using (mainly) Latin or Greek script<sup>15</sup>, but also utilising other special characters, such as a colon-like character denoting that the preceding sound is long and, in some versions, high or low vertical lines denoting the primary and secondary stressed syllables<sup>16</sup>.

The *Phonemizer* package is a Python-based tool for converting text strings to IPA format using a back-end text-to-speech software application named *espeak-ng*<sup>17,18,19,20,21</sup>.

In this article, I again consider the same pairs of marks, taken from previous dispute cases, as utilised in the initial study. The marks are converted to their IPA representations using the *Phonemizer* package, and the phonetic representations again compared using the *fuzz.ratio* algorithm.

## Analysis

Table 4 shows the IPA representations of each of the marks, as given by *Phonemizer*, and the corresponding (phonetic) similarity scores for the pairs of marks (compared with the scores obtained using the Soundex and NYSIIS representations, from the initial study).

<sup>18</sup> <u>https://pypi.org/project/phonemizer/</u>

<sup>&</sup>lt;sup>12</sup> In addition to other models for quantifying the *spelling-based* (visual) similarity

<sup>&</sup>lt;sup>13</sup> <u>https://pypi.org/project/fuzzywuzzy/</u>

<sup>&</sup>lt;sup>14</sup> <u>https://www.internationalphoneticassociation.org/content/ipa-chart</u>

<sup>&</sup>lt;sup>15</sup> <u>https://en.wikipedia.org/wiki/International Phonetic Alphabet chart</u>; a pronunciation guide can be found at: https://www.vocabulary.com/resources/ipa-pronunciation/

<sup>&</sup>lt;sup>16</sup> <u>https://en.wikipedia.org/wiki/Stress\_(linguistics)</u>

<sup>&</sup>lt;sup>17</sup> M. Bernard and H. Titeux (2021). 'Phonemizer: Text to Phones Transcription for Multiple Languages in Python', *J. Open Source Software*, 6(68), p.3958.

<sup>&</sup>lt;sup>19</sup> <u>https://github.com/bootphon/phonemizer</u>

<sup>&</sup>lt;sup>20</sup> <u>https://bootphon.github.io/phonemizer/install.html</u>

<sup>&</sup>lt;sup>21</sup> <u>https://github.com/espeak-ng/espeak-ng#espeak-ng-text-to-speech</u>

| Marily 1      | Marth 2      |               |                | Similarity scores |         |        |  |
|---------------|--------------|---------------|----------------|-------------------|---------|--------|--|
| Mark 1        | Mark 2       | Mark 1 (IPA)  | Mark 2 (IPA)   | IPA               | Soundex | NYSIIS |  |
| kresco        | cresco       | kueskoo       | kjeskou        | 100               | 75      | 100    |  |
| casoria       | castoria     | kæsoːɹiə      | kæstoːɹiə      | 95                | 75      | 91     |  |
| seiko         | seycos       | seīkoʊ        | seīkoʊz        | 93                | 100     | 67     |  |
| starbucks     | charbucks    | sta:JbAks     | t∫aːJbʌks      | 90                | 50      | 77     |  |
| mahendra      | mahindra     | mæhɛndɹə      | mæhɪndɹə       | 89                | 100     | 100    |  |
| bacchus       | cacchus      | bækəs         | kækəs          | 83                | 75      | 67     |  |
| trucool       | turcool      | tuu:ku:l      | tɜːkuːl        | 82                | 100     | 83     |  |
| lucozade      | glucos-aid   | luːkəzeɪd     | gluːkoʊzeɪd    | 82                | 50      | 93     |  |
| louis vuitton | chewy vuiton | luːi vjuːɪʔņ  | t∫uːi vjuːɪtən | 76                | 50      | 71     |  |
| mdh           | mhs          | εmdiːeɪt∫     | ɛmeɪt∫ɛs       | 74                | 75      | 80     |  |
| intelect      | entelec      | Intel+kt      | εntεlεk        | 71                | 75      | 80     |  |
| starbucks     | sardarbuksh  | sta:JbAks     | sa:ıda:ıb∧k∫   | 70                | 75      | 71     |  |
| cana          | canya        | ka:nə         | kænjə          | 67                | 100     | 100    |  |
| simoniz       | permanize    | sımənız       | pɜːmənaɪz      | 67                | 50      | 62     |  |
| zirco         | cozirc       | z3ːkoʊ        | ka:z3:k        | 67                | 50      | 60     |  |
| bisleri       | bilseri      | baɪslɜːɹi     | bīlsəli        | 67                | 75      | 83     |  |
| magnavox      | multivox     | mægnevaːks    | mʌltivaːks     | 64                | 50      | 75     |  |
| nike          | nuke         | naɪk          | nu:k           | 60                | 100     | 100    |  |
| lakme         | likeme       | lækmi         | laɪkiːm        | 57                | 100     | 89     |  |
| puma          | coma         | puːmə         | koʊmə          | 50                | 75      | 67     |  |
| hpnotiq       | hopnotic     | eɪt∫piːnoʊrɪk | həpna:rık      | 50                | 100     | 80     |  |
| mcdonalds     | mcsweet      | məkda:nəldz   | məkswiːt       | 48                | 75      | 43     |  |
| louboutin     | lubov        | laʊbaʊtɪn     | luːbaːv        | 33                | 50      | 67     |  |

**Table 4:** IPA representations (from *Phonemizer*) and similarity scores (using the *fuzz.ratio* algorithm)

 for the pairs of marks, compared with the scores using the Soundex and NYSIIS representations

Overall (subjectively!), the IPA-based similarity score seems to perform well in ranking the pairs of marks by aural similarity, and provides a more satisfactory analysis than either of the two other phonetic models explored previously (which is perhaps unsurprising, in view of the shortcomings discussed above).

There are also a number of other specific observations of note:

- The algorithm correctly (in my opinion!) rates the 'kresco' and 'cresco' marks as phonetically identical, and with the same IPA representation.
- The IPA representation provides a convenient way of comparing the degree of similarity (according to *Phonemize*) between sub-elements of the strings when the primary difference is disregarded; for example, with *Lucozade* vs *Glucos-Aid*, if the initial 'g' is removed from the IPA representation of the latter, the remaining strings are *lu:kazeid* and *lu:kozeid*, i.e. differing only in the middle vowel sound.
- In portions of the words which the algorithm deems 'unreadable', the phonetic representation conveys a series of letter *names*. For example, 'mdh' is expressed as '*em-dee-aitch*', and '*hpnotiq*' as '*aitch-pee-notic*'. Whilst this may be the desired behaviour in some cases, it may not always be appropriate.

 This particular implementation of IPA is built around American, rather than English, pronunciation – for example, syllables such as 'vox' and 'not' are encoded using a long 'ah' sound (a:), and 'nuke' is represented as 'nooke' rather than 'nyooke'. Again, this may not always be appropriate for marks targeting an English audience (although perhaps less of an issue if comparing like-with-like).

One option for handling the above issues wherever they arise is to manually modify the strings, to ensure that they are encoded 'correctly' (or simply to modify the IPA representation before calculating the similarity score) – though of course this removes the objectivity of the approach. Nevertheless, there may be cases where this is unavoidable, if it is relatively indisputable that the algorithm has got the encoding 'wrong' (based on the – admittedly subjective – intended pronunciation). Examples in the dataset include:

- 'hpnotic' encoded as 'aitch-pee-notic', where it would be preferable to modify the mark or directly edit the IPA representation to ensure that it is represented as *hapna:rik* (in which case the similarity score will be 100)
- 'likeme' this has been encoded as it would be pronounced if intended to be a single readable word (*larki:m* '*lyekeem*'), whereas it is presumably intended to be read as 'like me'. This can be addressed by re-writing the mark as 'like-me', in which case it is encoded as *larkmi:*, giving an increased similarity score (compared with 'lakme') of 71.

#### Conclusion

Converting marks to their full IPA representations, as a means of comparing aural (pronunciation) similarity, appears to provide improved performance than using the Soundex or NYSIIS algorithms described previously, and would probably be preferable for inclusion in an improved metric for quantifying the overall similarity of marks.

The *Phonemizer* package offers a convenient method for generating the required phonetic encoding, although there remain some potential issues to be addressed, such as the emphasis on American pronunciation, which may not be appropriate in all cases, and the handling of lower-readability strings, or those marks which (subjectively) appear intended to be read in particular ways. These issues can be addressed by employing manual edits, but this runs the risk of breaching the wholly objective nature of the approach.

# Appendix A: Assessments of word mark\* similarity in recent UK trademark dispute cases

\*Neglecting certain variants which differ only in the *case* of the characters

s = similar

d = different

? = inconsistent – i.e. different decisions reached at different times

| Def      |  |  | ۱ I                | y<br>Overall<br>S<br>d<br>d<br>S<br>S<br>S<br>S<br>S<br>S<br>C<br>d<br>d<br>S<br>S<br>S<br>d<br>d<br>d<br>S<br>S<br>S<br>S |                       |         |
|----------|--|--|--------------------|--|-----------------------|---------|
| Ref<br># | Mark 1   | Mark 2                                     | Aural<br>(pronun.) | Visual<br>(spelling)   | Conceptl.<br>(m'ning) | Overall |
| 1        | GIZEBRA  | DEBRA THE GIZEBRA                          |                    |  |                       | S       |
| 2        | SUNTECH  | SunTank                                    | S                  | S  | d                     | d       |
| 3        | IBACCY   | Віссу Вассу                                | d                  | d  | d                     | d       |
| 4        | JOLLY  | JOLLY PECKISH                              | S                  | S  | S                     | S       |
| 5        | DREAM COACH / DREAM BIGGER<br>/ DREAMS                                     | Dream Rite                                 | s                  | S  | S                     | S       |
| 6        | DOSE & CO.   | DOSE LABS                                  | S                  | S  | S                     | S       |
| 7        | AMAZON   | AMAZON FOOD TRADER LTD                     | S                  | S  | S                     | S       |
| 8        | SKULLCANDY / SKULL-IQ  | SKULL GAMING                               | S                  | S  | d                     | d       |
| 9        | PRINKER  | Prink                                      | S                  | S  |                       | S       |
| 10       | 3MONKEYS   | 3 Monkeys Communications                   | S                  | S  | S                     | S       |
| 11       | BOSS   | Bossvel                                    | s                  | s  | d                     | S       |
| 12       | CAZOO  | CARKOO                                     | d                  | s  |                       | d       |
| 13       | LOTUS  | Motus Group UK (and variants)              | d                  | d  |                       | d       |
| 14       | CARTILS  | CARTEL DESIGN                              | S                  | s  | d                     | d       |
| 15       | PRINZ  | Prinse                                     |                    | S  |                       | S       |
| 16       | SHERCO   | CHARCO                                     | s                  | S  |                       |         |
| 17       | WATERFORD / WATERFORD<br>TEIREOIR  | LADY LOUISA WATERFORD                      |                    |  | d                     | d       |
| 18       | LIVE   | LIFE'S                                     |                    |  | d                     | d       |
| 19       | FLOWERS  | FLOWER CAFE / FLOWER DRINKS                | S                  | S  | ?                     | ?       |
| 20       | STR8 GO FOR GREAT / STR8   | ST8  | S                  | d  | d                     | d       |
| 21       | myGeneCare / myGeneWisdom /<br>myGeneDiary / myGenePredict /<br>myGeneHelp | MYGENES                                    | S                  | S  | S                     | S       |
| 22       | NRJ / ENERGY NRj   | NRG  | d                  | d  | d                     | d       |
| 23       | OYSTER   | Oyster and Pop                             | s                  | s  | s                     | s       |
| 24       | SKY  | Sky Force                                  | S                  | s  | s                     | S       |
| 25       | THE GOOD SCHOOLS GUIDE   | The Good School                            | S                  | S  | S                     | S       |
| 26       | NOUGHTY  | NAUGHTEA                                   | S                  | S  | S                     | S       |
| 27       | GLOW UP / Glow Up: Britain's<br>Next Make-Up Star                          | glow up: britain's next make-up<br>star    | s                  | s  | s                     | S       |
| 28       | DEMIEGOD   | DEMIGODS                                   | s                  | s  | s                     | S       |
| 29       | Retaron  | RetIron                                    | s                  | s  |                       | S       |
| 30       | THIS GIRL CAN  | This Girl Came                             | S                  | s  | d                     | d       |
| 31       | GODDESS  | GODLESS                                    | S                  | S  | d                     | S       |
| 32       | PARIS-MATCH  | PARIMATCH / PARIMATCH TECH<br>/ PARI MATCH | s                  | s  | s                     | s       |
| 33       | ANYTIME FITNESS / ANYTIME<br>HEALTH  | ANYTIME PRO                                | s                  | s  | s                     | S       |
| 34       | PIKDARE  | PI-KARE                                    | S                  | S  |                       | S       |
| 35       | Kramer   | CRAMER                                     |                    | S  | S                     | S       |
| 36       | FIDO   | FIIO                                       | S                  | S  |                       | S       |
| 37       | EVOLUTIQ   | ESSENTIAL EVOLUTION                        | d                  | d  | d                     | d       |
| 38       | TRECA  | TREA                                       | S                  | S  |                       | S       |
| 39       | EASYJET / EASYGYM /<br>EASYHOTEL / EASYBUS /                               | Easycosmetic                               | d                  | d  | d                     | d       |

|    | EASYCAR / easyProperty /                  |   |   |   |   |   |
|----|---|---|---|---|---|---|
|    | EASYCOFFEE                                |   |   |   |   |   |
| 40 | X12 / X14 / X16 / X15 / X13               | vivo X15 / vivo X12 / vivo X14 /<br>vivo X16 / vivo X13                                 | s | s | d | d |
| 41 | Victoria / victoria Dear World            | Victoro   | S | S | S | S |
| 42 | VIZRT                                     | Vizst TECHNOLOGY / Vizst  | S | S | S | S |
| 43 | ASOS                                      | ASAS  | S | S |   | S |
| 44 | MAKEUP WARDROBE                           | MAKEUP WARDROBING   | S | S | S | S |
| 45 | LUSH                                      | Lush Lights   | S | S | S | S |
| 46 | SIX DAYS                                  | DAY6  | S | S | S | S |
| 47 | GENEVERSE                                 | GENV3RSE  | S | S | - | S |
| 48 | DIAMOND MIST                              | VAPES BARS DIAMOND /<br>DIAMOND BAR 600 / MAX<br>DIAMOND / DIAMOND MAX /<br>DIAMOND PRO | d | d | d | d |
| 49 | EATALIANO                                 | EATalia / EAT-alia  | S | S | S | S |
| 50 | VFH                                       | VFHOnline   | S | S | d | S |
| 51 | MBFW                                      | MVFW  | S | S |   | S |
| 52 | TYGRYS                                    | TIGRIS  | S | S |   | S |
| 53 | Meta Technology / META META /<br>Meta     | META PORTAL / META<br>PLATFORMS / META / META<br>QUEST / META HORIZON / META<br>VIEW    | S | S | S | S |
| 54 | Burgerme                                  | BURGERLY  | S | S | d | d |
| 55 | SiR / SIR                                 | SIRO  | S | S | d | d |
| 56 | OYSTER PERPETUAL / PERPETUAL              | PERPÉTUEL / PERPETUEL   | S | S | S | S |
| 57 | Spear & Jackson Predator                  | Predator Gutter Vacuum  | S | S | S | S |
| 58 | ULMA                                      | LUMA  | S | S |   | S |
| 59 | AZURE                                     | Azurity   | S | S | S | S |
| 60 | 1LINK                                     | LINK  | S | S | S | S |
| 61 | CATAPULT VISION / CATAPULT<br>ONE         | Catapult Consulting   | S | S | S | S |
| 62 | 6X / 7X / 9X / 8X / 5X                    | vivo X6 / vivo X5 / vivo X7 / vivo<br>X9 / vivo X8                                      | d | d |   | d |
| 63 | ASPREY / Asprey LONDON                    | DAVE ASPREY   | S | S | d | d |
| 64 | ENERGEO                                   | ENERJO  | S | S | S | S |
| 65 | MUTANT                                    | MEGA MUTANT   | S | S | S | S |
| 66 | PHILIPS                                   | PhilzOps  | d | S |   | d |
| 67 | Last Shelter:Survival                     | Doomsday: Last Survivors  | d | d | S | d |
| 68 | ACTIVIST                                  | Activist Ingredients / Davines<br>Activist Ingredients                                  | ? | ? | ? | ? |
| 69 | FITTIPALDI / FITTIPALDI                   | EMERSON FITTIPALDI /<br>eFittipaldi / FITTIPALDI<br>AUTOMOBILI                          | S | S | S | S |
| 70 | SWIFT                                     | MicroSwift  | S | S | S | S |
| 71 | ArmaLight / ArmaGel                       | ARMATHERM   | S | S | d | S |
| 72 | FlexoLid                                  | kp FlexiLid   | S | S |   | S |
| 73 | VERY                                      | VERYCO  | S | S | S | S |
| 74 | ZARA                                      | ZARZAR  | S | d |   | d |
| 75 | VAULT IP / VAULT INTELLECTUAL<br>PROPERTY | BRANDVAULT  | d | d | d | d |
| 76 | Alpha Boxing                              | ALPHA FORCE   | S | S | S | S |
| 77 | LEMON PERFECT                             | PEACH PERFECT   | S | S | S | S |
| 78 | life                                      | ChopLife / Chop Life  | S | S | s | S |
| 79 | RYZEN / AMD RYZEN                         | RYZEUP / RyzeUp   | S | S | d | S |
| 80 | IPING 2.0 / PING                          | pingNpay  | d | S | S | S |
| 81 | NUTRAVITA                                 | Nootrovita  | S | S | S | S |
| 82 | PUSHER                                    | Pushers Only  | S | S | S | S |
| 83 | Zemo                                      | ZOOMO   | S | d | d | d |
| 84 | WEAR THE CHANGE                           | WEAR THE FUTURE   | S | S | S | S |

| 16         PT Powerpod / P Powerpods         POWERPOD         s         s         s         s         s           87         AGRHO S-ROX / AGRHO         agro S         s         s         s         s           88         SIZZLING FORTUNES / SIZZLING<br>CON / SIZZLING HOT         SIZZLING FELS / SIZZLING<br>MODO / SIZZLING KINGDOM         s  | 85  | IntelliCare                                   | Intelecare   | S | S | S | S |
|--|-----|---|--|---|---|---|---|
| 87         ACRIN D. ROX / AGRHO         agro S         s          101         CROC od  | 86  |   |  |   |   |   |   |
| 88         SIZZUNG FORTUNES / SIZZUNG<br>CON / SIZZUNG KINGDOM         5         5         5         5           88         FOLTENE         FOLTEX         5         5         5         5           89         FOLTENE         FOLTEX         5         5         5         5           91         VUDAS         VUDYA         S         5         5         5           92         VOLAS         VUDYA         S         5         5         5           92         VOLYO         VUTA TRUCKS / VTRUCKS / S         5         5           92         VOLVO         VUTA TRUCKS / VTRUCKS / S         5         5         5           94         RABE         RASE         S         S         6         d         d         d         d         d         d         d         d         d         d         d         d         d         d  | 87  |   | agro S   | S | S |   | S |
| 90         du Feu         DU FEU DESION         s         s         s         s           91         VIDAS         VIDYA         s   | 88  | SIZZLING FORTUNES / SIZZLING                  | SIZZLING BELLS / SIZZLING<br>MOON / SIZZLING REELS / |   |   | S |   |
| 91     VIDAS     VIDXA     s     s     s       92     VOLVO     VOLTA TRUCKS / VTRUCKS / VTRUC | 89  | FOLTENE                                       | FOLTEX   | S | S |   | S |
| 92         VOLVO         VOLTA TRUCKS / VOLTA ZERO /<br>VOLTA / VTRUCKS /<br>VTRUCKS         d         ?         d         d           92         VOLVO         VOLTA / VTRUCKS / VTRUCKS /<br>VTRUCKS         d         ?         d         d           93         CroC Odor / Croc Odor /<br>Croc Odor / Croc Odor the<br>tichen expert         cocod'or         s         s         d         d           94         RABE         RASE         s         s         d         d         d           95         CINTRA         CITRA         s         s         d         d         d         d         d           96         MATTERS         MATTER         s         s         d         d         d         d         d         d         d         d         d         s <td>90</td> <td>du Feu</td> <td>DU FEU DESIGN</td> <td>s</td> <td>S</td> <td></td> <td>s</td>  | 90  | du Feu  | DU FEU DESIGN  | s | S |   | s |
| 92     VOLVO     VOLTA / VTRUCKS / VTRUCKS / VTRUCKS / VTRUCKS     d     ?     d     d       93     CROC odor WC / CROC odor / Cocod'or     s     s     s     d     d       94     RABE     RASE     s     s     s     d     d       94     RABE     RASE     s     s     d     d     d       95     CINTRA     CITRA     s     s     d     d     d       95     MATTERS     M4TTER     s     s     d     d     d       97     MLOR     HFLOR / H FLOR     s     s     d     d     d       98     MBET     M-Bets     s     s     s     s     s     s       100     STONE BREWING     s     s     s     s     s     s       101     CHEF     CHEFCHY     s     s     s     s     s       103     Satisfyer     SIMPLY SATISFY     d     d     s     d     d       104     FRANSA     FANZA     s     s     s     s     s       105     GAP     GAL London     s     s     s     s     s       105     SAPA     GAL London     s     <  | 91  | VIDAS   | VIDYA  | S | S |   | S |
| 93     CrocOdor / Croc Odor the<br>kitchen expert     cccod'or     s     s     s     d     d       94     RABE     RASE     s     s     s     s     s     s       95     CINTRA     CITRA     CITRA     s     s     s     d     d       95     MATTERS     MATTERS     MATTERS     s     s     d     d       96     MATTERS     MATTERS     S     s     s     s     s       97     MFLOR     HFLOR / H FLOR     s     s     s     s     s       99     next     NXWEARS     s     s     s     s     s       100     STONES     STONE BREWING     s     s     s     s       101     CHEF     CHEFCHY     s     s     s     s       102     Bones     Bones Of Barbados     s     s     s     s       103     Satisfyer     SimPLY SATISFY     d     d     d     d       104     FRANSA     FANZA     s     s     s     s     s       105     GAP     GAL London     s     s     s     s     s       106     CARBON     MyCarbon     s     s <td>92</td> <td>VOLVO</td> <td>VOLTA / VTRUCKS / V TRUCKS /</td> <td>d</td> <td>?</td> <td>d</td> <td>d</td>  | 92  | VOLVO   | VOLTA / VTRUCKS / V TRUCKS /                         | d | ? | d | d |
| 95         CINTRA         CITRA         s         s         d         d           96         MATTERS         MATTER         s         s         d         s           97         MELOR         HFLOR/HELOR/HELOR         s         s         s         d         d           98         MBET         M-Bets         s         s         s         s         s         s           99         next         NXTWEAR S         s         s         s         s         s         s         s           101         CHEF         CHECHY         s         s         s         s         d         d         d         s         s         s         s         s         s         d  | 93  | Croc'Odor / Croc Odor the                     | cocod'or   | S | S | d | d |
| 96         MATTERS         M4TTER         s         s         d         s           97         MFLOR         HFLOR / H FLOR         s         s         d         d           98         MBET         M-Bets         s         s         s         s         s           99         next         NXTWEAR S         s         s         s         s         s           100         STONES         STONE STONE BREWING         s         s         s         s         s           101         CHEF         CHERCHY         s         s         s         d <t< td=""><td>94</td><td>RABE</td><td>RASE</td><td>S</td><td>S</td><td></td><td>S</td></t<>   | 94  | RABE  | RASE   | S | S |   | S |
| 97         MFLOR         HFLOR / H FLOR         s         s         d         d           98         MBET         M-Bets         s         s         s         s         s           99         next         NXTWEAR S         s         s         s         s         s           100         STONES         STOME BREWING         s         s         s         s         s           101         CHEF         CHECHY         s         s         s         s         d <t< td=""><td>95</td><td>CINTRA</td><td>CITRA</td><td>S</td><td>S</td><td>d</td><td>d</td></t<>  | 95  | CINTRA  | CITRA  | S | S | d | d |
| 98MBETM-Betssssss99nextNXTWEAR Ssssss100STONESSTONE BREWINGsssss101CHEFCHEFCHYsssdd102BonesBones Of Barbadosssddd103SatisfyerSIMPLY SATISFYdddsss <td< td=""><td>96</td><td>MATTERS</td><td>M4TTER</td><td>S</td><td>S</td><td>d</td><td>S</td></td<>  | 96  | MATTERS                                       | M4TTER   | S | S | d | S |
| 99         next         NXTWEAR S         s         s         s         s         s         s           100         STONES         STONE BREWING         s         <   | 97  | MFLOR   | HFLOR / H FLOR                                       | S | S | d | d |
| 100         STONES         STONE BREWING         s   | 98  | MBET  | M-Bets   | S | S | S | S |
| 101         CHEF         CHEFCHY         s         s         s         s           102         Bones         Bones Of Barbados         s         s         d         dd           103         Satisfyer         SIMPLY SATISFY         dd         dd         s         dd           104         FRANSA         FANZA         s         s         s         s         dd           105         GAP         GAL London         s         s         s         s         s         s         s           106         CARBON         MyCarbon         s <td>99</td> <td>next</td> <td></td> <td>S</td> <td>S</td> <td>S</td> <td>S</td>   | 99  | next  |  | S | S | S | S |
| 102         Bones         Bones Of Barbados         s         s         d         d           103         Satisfyer         SIMPLY SATISFY         d         d         s         s         d         d           104         FRANSA         FANZA         s         s         s         s         d  | 100 | STONES  | STONE BREWING  | S | S | S | S |
| 103         Satisfyer         SIMPLY SATISFY         d         d         d         s         d           104         FRANSA         FANZA         s  | 101 | CHEF  | CHEFCHY  | S | S | S | S |
| 104         FRANSA         FANZA         s         s         s         s         s         s           105         GAP         GAL London         s         d <td>102</td> <td>Bones</td> <td>Bones Of Barbados</td> <td>S</td> <td>S</td> <td>d</td> <td>d</td>   | 102 | Bones   | Bones Of Barbados                                    | S | S | d | d |
| IDS         GAP         GAL London         s         d         d         d         d         d         d           106         CARBON         MyCarbon         s   | 103 | Satisfyer                                     | SIMPLY SATISFY                                       | d | d | S | d |
| 106         CARBON         MyCarbon         s  | 104 | FRANSA  | FANZA  | S | S | S | S |
| 107         COMPAL         COPALLI / COPAL TREE         ?         ?         d         ?           108         DENNIS / DENNIS AND GNASHER         Dennis G         s <td>105</td> <td>GAP</td> <td>GAL London</td> <td>S</td> <td>d</td> <td>d</td> <td>d</td>   | 105 | GAP   | GAL London   | S | d | d | d |
| 108         DENNIS / DENNIS AND GNASHER         Dennis G         s   | 106 | CARBON  | MyCarbon   | S | S | S | S |
| 109         SAVANT         SAVANT POWER         s         s         s         s         s           110         HYPR         HYPERNFT         s <t< td=""><td>107</td><td>COMPAL</td><td>COPALLI / COPAL TREE</td><td>?</td><td>?</td><td>d</td><td>?</td></t<>  | 107 | COMPAL  | COPALLI / COPAL TREE                                 | ? | ? | d | ? |
| 110         HYPRR         HYPERNFT         s         s         s         s           111         POCKIT         MyPocket         s   | 108 | DENNIS / DENNIS AND GNASHER                   | Dennis G   | S | S | S | S |
| 111POCKITMyPocketsssss112SHEPHERDWOLF & SHEPHERDsssss113HONWAVE / HONDA / Honda eHonbikesssds114skin² / NITRILE SKIN²SKINSssssss115HansonHANSOLssssss116CULT BEAUTY / CULT CONCIERGEPERFUME CULTsssss117BOSS / HUGO BOSS / BOSS<br>HUGOBOSSEURsddd118KelioKLEEOsssss119e-BULLIBULLITsssdd112realmeREALMZsssss120realmeREALMZsssss121MUSTANGMUSTANG / FORD MUSTANG /<br>MUSTANG MACH-Essss122EUREKA!EUREKA EDUCATIONsssss123Rebelle CopenhagenreBELLE BEAUTYsssss124PI DATABOOK / PIPIANYWHEREddsdd125CONSIGLIERICONSIGLIERAsssss126SayphaSHAYPEdsssss127FOLIUM SCIENCEFOLIUMssssss <td>109</td> <td>SAVANT</td> <td>SAVANT POWER</td> <td>S</td> <td>S</td> <td>S</td> <td>S</td>  | 109 | SAVANT  | SAVANT POWER   | S | S | S | S |
| 112       SHEPHERD       WOLF & SHEPHERD       s       s       s       s       s         113       HONWAVE / HONDA / Honda e       Honbike       s       s       s       d       s         114       skin² / NITRILE SKIN²       SKINS       s       s       s       s       s       s         114       skin² / NITRILE SKIN²       SKINS       s       s       s       s       s       s         114       skin² / NITRILE SKIN²       SKINS       s       s       s       s       s       s       s         115       Hanson       HANSOL       s<  | 110 | HYPRR   | HYPERNFT   | S | S | S | S |
| 113HONWAVE / HONDA / Honda eHonbikesssds114skin² / NITRILE SKIN²SKINSssssss115HansonHANSOLssssss116CULT BEAUTY / CULT CONCIERGEPERFUME CULTsssss117HUGO BOSS / BOSSBOSSEURsddd118KelioKLEEOsssss119e-BULLIBULLITsssdd120realmeREALMZsssdd121MUSTANGMUSTANG / FORD MUSTANG /<br>MUSTANG MACH-Essss122EUREKAIEUREKA EDUCATIONsssss123Rebelle CopenhagenreBELLE BEAUTYsssss124PI DATABOOK / PIPIANYWHEREddddd125CONSIGLIERICONSIGLIERAssssss128MDIntiMDsssssss129Higicol – AMMA / amma /<br>AMMA COLORSAmma Wellnesssssss130LIP INJECTIONLIPJECTION GLOSSssssss133Bloobluuwashsssssss   | 111 | РОСКІТ  | MyPocket   | S | S | S | S |
| 114skin² / NITRILE SKIN²SKINSsssss115HansonHANSOLSSSS116CULT BEAUTY / CULT CONCIERGEPERFUME CULTSSSS117BOSS / HUGO BOSS / BOSS<br>HUGOBOSSEURSdd118KelioKLEEOSSSS119e-BULLIBULLITSSdd120realmeREALMZSSSS120realmeREALMZSSSS121MUSTANGMUSTANG / FORD MUSTANG /<br>MUSTANG MACH-ESSS122EUREKA!EUREKA EDUCATIONSSSS123Rebelle CopenhagenreBELLE BEAUTYSSSS124PI DATABOOK / PIPIANYWHEREdddd125CONSIGLIERICONSIGLIERASSSS126SayphaSHAYPEdSSSS128MDIntiMDSSSSS129Higicol – AMMA / amma /<br>AMMA COLORSAmma WellnessSSSS130LIP INJECTIONLIPJECTION GLOSSSSSS131RESOLVACONSOLVASSSSS133BloobluuwashSSSSS   | 112 | SHEPHERD                                      | WOLF & SHEPHERD                                      | S | S | S | S |
| 115HansonHANSOLssss116CULT BEAUTY / CULT CONCIERGEPERFUME CULTSSSS117BOSS / HUGO BOSS / BOSS<br>HUGOBOSSEURsdd118KelioKLEEOSSSS119e-BULLIBULLITSSdd120realmeREALMZSSdd121MUSTANG / FORD MUSTANG /<br>MUSTANG MACH-ESSdd122EUREKA!EUREKA EDUCATIONSSSS123Rebelle CopenhagenreBELLE BEAUTYSSSS124PI DATABOOK / PIPIANYWHEREdddd125CONSIGLIERICONSIGLIERASSSS126SayphaSHAYPEdSSSS129Higicol - AMMA / amma /<br>AMMA COLORSAmma WellnessSSSS130LIP INJECTIONLIPJECTION GLOSSSSSSS131RESOLVACONSOLVASSSSS133BloobluuwashSSSSS   | 113 | HONWAVE / HONDA / Honda e                     | Honbike  | S | S | d | S |
| 116CULT BEAUTY / CULT CONCIERGEPERFUME CULTsssss117BOSS / HUGO BOSS / BOSS<br>HUGOBOSSEURsdd118KelioKLEEOssss119e-BULLIBULLITsssd120realmeREALMZsssd121MUSTANGMUSTANG / FORD MUSTANG /<br>MUSTANG MACH-Essss122EUREKA!EUREKA EDUCATIONsssss123Rebelle CopenhagenreBELLE BEAUTYsssss124PI DATABOOK / PIPIANYWHEREddsdd125CONSIGLIERICONSIGLIERAssssss126SayphaSHAYPEdssssss128MDIntiMDsssssss129AMMA COLORSIntiMDssssss130LIP INJECTIONLIPJECTION GLOSSssssss133Bloobluuwashsssssss   | 114 | skin <sup>2</sup> / NITRILE SKIN <sup>2</sup> | SKINS  | S | S | S | S |
| 117BOSS / HUGO BOSS / BOSS<br>HUGOBOSSEURsdd118KelioKLEEOssss119e-BULLIBULLITssss120realmeREALMZssdd121MUSTANGMUSTANG / FORD MUSTANG /<br>MUSTANG MACH-Essss122EUREKA!EUREKA EDUCATIONsssss123Rebelle CopenhagenreBELLE BEAUTYsssss124PI DATABOOK / PIPIANYWHEREddddd125CONSIGLIERICONSIGLIERAssssss126SayphaSHAYPEdssdddd128MDIntiMDssssssss129Higicol – AMMA / amma /<br>AMMA COLORSAmma Wellnesssssssssss130LIP INJECTIONLIPJECTION GLOSSsss <td>115</td> <td>Hanson</td> <td>HANSOL</td> <td>S</td> <td>S</td> <td></td> <td>S</td>  | 115 | Hanson  | HANSOL   | S | S |   | S |
| 117HUGOBOSSEURsdd118KelioKLEEOssss119e-BULLIBULLITssss120realmeREALMZssdd121MUSTANGMUSTANG / FORD MUSTANG /<br>MUSTANG MACH-Esssd122EUREKA!EUREKA EDUCATIONsssss123Rebelle CopenhagenreBELLE BEAUTYsssss124PI DATABOOK / PIPIANYWHEREdddsd125CONSIGLIERICONSIGLIERAsssss126SayphaSHAYPEdsddd127FOLIUM SCIENCEFOLIUMsssss128MDIntiMDssssss129Higicol – AMMA / amma /<br>AMMA COLORSAmma Wellnesssssss130LIP INJECTIONLIPJECTION GLOSSssssss133Bloobluuwashsssssss   | 116 | CULT BEAUTY / CULT CONCIERGE                  | PERFUME CULT   | S | S | S | S |
| 119e-BULLIBULLITssss120realmeREALMZsssdd121MUSTANGMUSTANG / FORD MUSTANG /<br>MUSTANG MACH-Esssss122EUREKA!EUREKA EDUCATIONssssss123Rebelle CopenhagenreBELLE BEAUTYssssss124PI DATABOOK / PIPIANYWHEREddsdd125CONSIGLIERICONSIGLIERAsssss126SayphaSHAYPEdssdd128MDIntiMDssssss129Higicol – AMMA / amma /<br>AMMA COLORSAmma Wellnessssssss130LIP INJECTIONLIPJECTION GLOSSsssssss133Bloobluuwashsssssss   | 117 |   | BOSSEUR  | S | d |   | d |
| 120realmeREALMZssdd121MUSTANGMUSTANG / FORD MUSTANG /<br>MUSTANG MACH-Essss122EUREKA!EUREKA EDUCATIONsssss123Rebelle CopenhagenreBELLE BEAUTYssssss124PI DATABOOK / PIPIANYWHEREdddsdd125CONSIGLIERICONSIGLIERAssssss126SayphaSHAYPEdsdddsd127FOLIUM SCIENCEFOLIUMsssssss128MDIntiMDsssssss129Higicol - AMMA / anma /<br>AMMA COLORSAmma Wellnessssssss130LIP INJECTIONLIPJECTION GLOSSssssss133Bloobluuwashsssssss  | 118 | Kelio   | KLEEO  | S | S |   | S |
| 121MUSTANGMUSTANG / FORD MUSTANG /<br>MUSTANG MACH-Esss122EUREKA!EUREKA EDUCATIONssss123Rebelle CopenhagenreBELLE BEAUTYsssss124PI DATABOOK / PIPI ANYWHEREdddsd125CONSIGLIERICONSIGLIERAsssss126SayphaSHAYPEdsddd127FOLIUM SCIENCEFOLIUMsssds128MDIntiMDssssss129Higicol – AMMA / amma /<br>AMMA COLORSAmma Wellnesssssss130LIP INJECTIONLIPJECTION GLOSSssssss133Bloobluuwashsssssss   | 119 | e-BULLI                                       |  | S | S |   | S |
| 121MUSTANGMUSTANG MACH-ESSSS122EUREKA!EUREKA EDUCATIONSSSS123Rebelle CopenhagenreBELLE BEAUTYSSSS124PI DATABOOK / PIPI ANYWHEREdddSd125CONSIGLIERICONSIGLIERASSSSS126SayphaSHAYPEdSSdd127FOLIUM SCIENCEFOLIUMSSSdS128MDIntiMDSSSSS129Higicol – AMMA / amma /<br>AMMA COLORSAmma WellnessSSSS130LIP INJECTIONLIPJECTION GLOSSSSSS131RESOLVACONSOLVASSSS133BloobluuwashSSSS  | 120 | realme  |  | S | S | d | d |
| 123Rebelle CopenhagenreBELLE BEAUTYsssss124PI DATABOOK / PIPIANYWHEREdddsd125CONSIGLIERICONSIGLIERAsssss126SayphaSHAYPEdsddd127FOLIUM SCIENCEFOLIUMssdds128MDIntiMDsssss129Higicol – AMMA / amma /<br>AMMA COLORSAmma Wellnessssss130LIP INJECTIONLIPJECTION GLOSSssss131RESOLVACONSOLVAsssss133Bloobluuwashsssss  | 121 | MUSTANG                                       |  | S | S |   | S |
| 124PI DATABOOK / PIPIANYWHEREdddsd125CONSIGLIERICONSIGLIERAsssss126SayphaSHAYPEdsdd127FOLIUM SCIENCEFOLIUMssdd128MDIntiMDsssss129Higicol – AMMA / amma /<br>AMMA COLORSAmma Wellnessssss130LIP INJECTIONLIPJECTION GLOSSssss131RESOLVACONSOLVAssss133Bloobluuwashssss  | 122 |   | EUREKA EDUCATION                                     | S | S | S | S |
| 125CONSIGLIERICONSIGLIERAsss126SayphaSHAYPEdsdd127FOLIUM SCIENCEFOLIUMssds128MDIntiMDsssss129Higicol – AMMA / amma /<br>AMMA COLORSAmma Wellnesssssss130LIP INJECTIONLIPJECTION GLOSSsssss131RESOLVACONSOLVAsssss133Bloobluuwashsssss  | 123 | Rebelle Copenhagen                            | reBELLE BEAUTY                                       | S | S | S | S |
| 126SayphaSHAYPEdsdd127FOLIUM SCIENCEFOLIUMsssds128MDIntiMDssssss129Higicol – AMMA / amma /<br>AMMA COLORSAmma Wellnesssssss130LIP INJECTIONLIPJECTION GLOSSsssss131RESOLVACONSOLVAsssss132CHOOEYCHOOEEssss133Bloobluuwashsssss   | 124 | PI DATABOOK / PI                              | PIANYWHERE   | d | d | S | d |
| 127FOLIUM SCIENCEFOLIUMssds128MDIntiMDsssss129Higicol – AMMA / amma /<br>AMMA COLORSAmma Wellnesssssss130LIP INJECTIONLIPJECTION GLOSSsssss131RESOLVACONSOLVAsssss132CHOOEYCHOOEEssss133Bloobluuwashsssss  |     | CONSIGLIERI                                   |  |   | S |   | S |
| 128MDIntiMDssss129Higicol – AMMA / amma /<br>AMMA COLORSAmma Wellnessssss130LIP INJECTIONLIPJECTION GLOSSssss131RESOLVACONSOLVAssss132CHOOEYCHOOEEssss133Bloobluuwashsssss   | -   |   |  | d | S | d | d |
| 129Higicol – AMMA / amma /<br>AMMA COLORSAmma Wellnesssss130LIP INJECTIONLIPJECTION GLOSSsss131RESOLVACONSOLVAsss132CHOOEYCHOOEEsss133Bloobluuwashssss   | 127 | FOLIUM SCIENCE                                | FOLIUM   | S | S | d | S |
| 129AMMA COLORSAmma WellnessSSS130LIP INJECTIONLIPJECTION GLOSSSSS131RESOLVACONSOLVASSS132CHOOEYCHOOEESSS133BloobluuwashSSSS  | 128 |   | IntiMD   | S | S | S | S |
| 131RESOLVACONSOLVAsss132CHOOEYCHOOEEsss133Bloobluuwashssss   | 129 |   | Amma Wellness  | S | S |   | s |
| 132CHOOEYCHOOEESS133BloobluuwashSSS  | 130 | LIP INJECTION                                 | LIPJECTION GLOSS                                     | S | S |   | S |
| 133 Bloo bluuwash s s s s  | 131 | RESOLVA                                       | CONSOLVA   | S | S |   | S |
|  | 132 | CHOOEY  | CHOOEE   |   | S |   | S |
|  | 133 | Bloo  | bluuwash   | S | S | S | S |
|  | 134 | COVERSYL                                      | COVIXYL-V  | d | S |   | d |

| Instruct of Learner o  | 135 | CLEAN V / CLEAN W / CLEANCO /<br>CLEAN G / CLEAN R / CLEAN T | Drink Clean.                | d | d | S  | d |
|--|-----|--|-----------------------------|---|---|----|---|
| 137         PKG         bit         s         s         s         s         s           138         Click-EAT (CLICK EAT         SUBWAY CLICK & EAT         s         d         s </td <td>126</td> <td>· · ·</td> <td></td> <td>d</td> <td>6</td> <td>d</td> <td>d</td>   | 126 | · · ·  |                             | d | 6 | d  | d |
| 138         Click-EAT / CLICK & EAT         s         d         s         s           139         REPEVAX         EPVAX         s         s         s         s           139         REPEVAX         EVAX         s         s         s         s         s           141         GEORGINE         s         s         s         s         s         s           142         OneAll Exourites / OneAll         OneFor / ONE FOR         s         s         s         s           143         FYRA         PRYA         S         s         d <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>  |     |  |                             |   |   |    |   |
| 130         REPEYAX         S         S         S         S         S           140         CURVE         CRV         d  |     |  |                             |   |   |    |   |
| 140         CRV         d          143         LALDUMI         Garant SALIO         SALIOS         SA  |     | ,  |                             |   | - | 5  |   |
| 141         GEORGIE         GEORGINE         s         s         s         s         s           142         One4AI Favourites / One4all         OneFOr / ONE FOR         s         s         s         s           143         PYRA         PRVA         PRVA         S         s         s         s           144         HALLOUMI         GRILOUMAKI / GRILOUMI         s         s         d  |     |  |                             |   |   | -1 |   |
| 142         DneAll Favourites / One4all         Defor / ONE FOR         s         s         s         s           143         PYRA         S         S         S         S         S         S           143         PYRA         GRILLOUMAKI / GRILLOUMI         S         S         S         S           144         HALLOUMI         GRILLOUMAKI / GRILLOUMI         S         S         S         S           145         CANE AND GRAIN         CANE & GRAIN INTERNATIONAL         S         S         S         S           146         BAD BOY         BBCC / BAD BOY CHILLER CREW         S         S         d         d           147         HOPatch         Patch         S         S         d         d         d           148         HAUPAtch         Patch         S         S         d  |     |  |                             |   |   |    |   |
| 143         PRA         S         S         S         S           144         HALLOUMI         GRILLOUMAKI / GRILLOUMI         S         S         d         d           145         CARE AND GRAIN         CANE & GRAIN INTERNATIONAL         S         S         S         S           146         BAD BOY         BBCC / BAD BOY CHILLER CREW         S         S         S         S         S           147         XACTWARE         SALIO BOY CHILLER CREW         S         S         d         A           148         SALIO         SALIOGEN         S         S         d         A           148         THINKSMART / THINKPAD /<br>THINKSMART / THINKPAD /<br>THINKSMOK / THINKSHELD         AESKUCARE ACRE / AESKUCARE Allergy         d  |     |  |                             | S |   |    |   |
| 144         HALLOUMI         CRILOUMAKI / CRILOUM         s         s         d         d           145         CANE AND GRAIN         CANE & GRAIN INTERNATIONAL         s         s         s         s           147         XACTIMATE / XACTANALYSIS /<br>XACTIWATE / XACTANALYSIS /<br>XACTIWARE         BUILDXACT         d<   |     | 1  | •                           |   | S | S  | S |
| 145         CANE AND GRAIN         CANE & GRAIN INTERNATIONAL         s         s         s           146         BAD BOY         BBCC / BAD BOY CHILLER CREW         s         s         s         s           147         XACTMARE / XACTANALYSIS /<br>XACTWARE         BUILDXACT         d <td></td> <td></td> <td></td> <td>S</td> <td>S</td> <td></td> <td></td>  |     |  |                             | S | S |    |   |
| 146         BAD BOY         BBCC / BAD BOY CHILLER CREW         s         s         s         s           147         XACTIMATE / XACTANALYSIS /<br>XACTIMATE / XACTANALYSIS / X |     |  | ·                           |   | S | d  | d |
| 14         XACTIMATE / XACTANALYSIS /<br>MACTWARE         BUILDXACT         d          151         THINKSMA  | 145 | CANE AND GRAIN   |                             | S | S |    | S |
| 147         XACTWARE         BUILUXAL         d  | 146 |  | BBCC / BAD BOY CHILLER CREW | S | S | S  | S |
| 149HotPatchPatchsssss150JUSTJust The Ticketsssdd151THINKSMART / THINKPAD /<br>THINKBOOK / THINKSHIELDXHINKCARdddd152AESCULAP/ AESKUCARE / AESKUCARE Allergy<br>/ AESKUCARE Food Intolerancedddd153RESOLUTIONRESOLUTEsssss154PUMAHuma / Huma / Huma Londonddddd155VOGAYoga Manddddd156LIVEVIVEdsssdd157PLANET BOTTLEOne Planetsssssss158MySugardaddySugar Daddy / Sugardaddysssssss160HOLDAY PEOPLEThe Holiday Peoplesssssss161PRADA ITMECAPSULE SERIALPADRAsssssss162THEY UEAGUEThe New Ivy Leaguesssssss163UNITY TRUST BANK / UNITYUNITY REAL ESTATE LTDssssss164DREAM COACHDREAM BIGGER /<br>DREAM COACHDREAM BIGGER /<br>Mountainsme Princessdddd165NODP / FLY SWOOPSWOOP / TAXIS / swooptaxisss<   | 147 |  | BUILDXACT                   | d | d | d  | d |
| 150     JUST     Just The Ticket     s     s     d     d       151     THINKSMART / THINKPAD /<br>THINKBOCK / THINKPAD     XHINKCAR     d     d     d     d     d       152     AESCULAP     AESKUCARE / AESKUCARE AIlergy<br>/ AESKUCARE Food intolerance     d     d     d     d       153     RESOLUTION     RESOLUTE     s     s     s     s     s       154     PUMA     Huma / Huma London     d     d     d     d       155     YOGA     Yoga Man     d     d     d     d       156     LIVE     VIVE     d     s     s     s     d       156     LIVE     VIVE     d     s     s     s     s       157     PLANET BOTTLE     One Planet     s     s     s     s     s       158     MySugardaddy     Sugar Daddy / Sugardaddy     s     s     s     s     s       158     MYSugardaddy     Sugar Daddy / Sugardaddy     s     s     s     s     s       158     MYSugardaddy     Sugar Daddy / Sugardady     s     s     s     s     s       161     PATER     Yatter     dd     dd     dd     dd <td< td=""><td>148</td><td>SALIO</td><td>SALIOGEN</td><td>S</td><td>S</td><td>d</td><td>S</td></td<>   | 148 | SALIO  | SALIOGEN                    | S | S | d  | S |
| 151THINKSMART / THINKPAD /<br>THINKBOOK / THINKSHIELDXHINKCARddddd152AESCULAPAESKUCARE / AESKUCARE Allergy<br>/ AESKUCARE Food Intoleranceddd153RESOLUTIONRESOLUTEssss154PUMAHuma / Huma Londondddd155IVEVIVEdssdd156IVEVIVEdssddd157PLANET BOTTLEOne Planetsssdddd158MySugardaddySugar Daddy / Sugardaddyssssssss159PATTERYatterddss <td>149</td> <td>HotPatch</td> <td>Patch</td> <td>S</td> <td>S</td> <td>S</td> <td>S</td>  | 149 | HotPatch   | Patch                       | S | S | S  | S |
| L51THINKBOOK / THINKSHIELDMHINCAR000000000000152AESCULAPAESKUCARE / AESKUCARE Allergy<br>/ AESKUCARE Food Intoleranceddddd153RESOLUTIONRESOLUTEssssss154PUMAHuma / Huma Londonddddddd155VOGAYoga Mandd<  | 150 | JUST   | Just The Ticket             | S | S | d  | d |
| 152       AESCULAP       / AESKUCARE Food Intolerance       d       d       d       d       d       d       d       d       d       d         153       RESOLUTION       RESOLUTE       s <td>151</td> <td></td> <td>XHINKCAR</td> <td>d</td> <td>d</td> <td>d</td> <td>d</td>   | 151 |  | XHINKCAR                    | d | d | d  | d |
| 154         PUMA         Huma / Huma / Huma London         d         d         d           155         VOGA         Yoga Man         d         s         s         d         d         d           156         I/VE         VIVE         d         s         s         d         d         d         d           157         PLANET BOTTLE         One Planet         s         s         s         d  | 152 | AESCULAP   |                             | d | d |    | d |
| 154         PUMA         Huma / Huma / Huma London         d         d         d           155         VOGA         Yoga Man         d         s         s         d         d         d           156         I/VE         VIVE         d         s         s         d         d         d         d           157         PLANET BOTTLE         One Planet         s         s         s         d  | 153 | RESOLUTION   | RESOLUTE                    | S | S | S  | S |
| 156LIVEVIVEdssd157PLANET BOTTLEOne Planetsssdd158MySugardaddySugar Daddy / Sugar Daddy / Sugar Daddy / Ssssss159PATTERWatterddddd160HOLIDAY PEOPLEThe Holiday Peoplesssss161PRADA Invites / RE-PRADA /<br>PRADA TIMECAPSULE SERIAL NPADRAsssss162THE IVY LEAGUEThe New Ivy Leaguesssssss163UNITY TRUST BANK / UNITYUNITY REAL ESTATE LTDsssssss164Dreams // DREAM BIGGERDream Big Make Dua Move<br>Mountainssssssss165MOON PRINCESSTime Princessddddddd165FASHIONGOFASHIONEGOsssssss166ELLESEELLISSsdddddd167THE SECRET GARDEN PARTYThe Secret Garden Glamping /<br>The Secret Gardensssssss168ELLESEELLISSsddddddddd169SOLE TRADER / SOLE / SOLE SOLE<br>/ SOLE SISTERSoulSistarsssss   | 154 | PUMA   | Huma / Huma London          |   |   | d  | d |
| 157PLANET BOTTLEOne Planetssdd158MySugardaddySugar Daddy / Sugardaddyssssss159PATTERYatterdddd160HOLIDAY PEOPLEThe Holiday Peoplesssss161PRADA Invites / RE-PRADA /<br>PRADA TIMECAPSULE SERIAL NPAORAsssss162THE IVY LEAGUEThe New Ivy Leaguesssssss163UNITY TRUST BANK / UNITYUNITY REAL ESTATE LTDsssssss164Dreams / DREAM BIGGER<br>Dream / DREAM COACHDream Big Make Dua Move<br>Mountainssssssss165MOON PRINCESSTime Princessdddddd166FASHIONGOFASHIONEGOsssssss167THE SECRET GARDEN PARTYThe Secret Garden Glamping /<br>The Secret Gardenssssss168ELLESSEELLISSsdddddd169SUCIE TADER / SOLE / SOLE SOLE<br>/ SOLE SISTERSulsistarsssssss170WASHTOWERWashing Tower / Washer Towersssssssssssssssss <td>155</td> <td>YOGA</td> <td>Yoga Man</td> <td></td> <td>d</td> <td></td> <td>d</td>   | 155 | YOGA   | Yoga Man                    |   | d |    | d |
| 157PLANET BOTTLEOne Planetssdd158MySugardaddySugar Daddy / Sugardaddyssssss159PATTERYatterdddd160HOLIDAY PEOPLEThe Holiday Peoplesssss161PRADA Invites / RE-PRADA /<br>PRADA TIMECAPSULE SERIAL NPADRAsssss162THE IVY LEAGUEThe New Ivy Leaguesssssss163UNITY TRUST BANK / UNITYUNITY REAL ESTATE LTDsssssss164Dreams / DREAM BIGGER<br>Dream / DREAM COACHDream Big Make Dua Move<br>Mountainssssssss165MOON PRINCESSTime Princessdddddd166FASHIONGOFASHIONEGOsssssss167THE SECRET GARDEN PARTYThe Secret Garden Glamping /<br>The Secret Gardenssssss168ELLESSEELLISSsdddddd169SUCIE TADDER / SOLE / SOLE SOLESoulSistarssssssss170SWOOP / FLY SWOOPSWOOP TAXIS / swooptaxissssssssssssssssss  | 156 | LIVE   | VIVE                        | d | s | S  | d |
| 158MySugardaddySugar Daddy / Sugardaddysssss159PATTERYatterddd160HOLIDAY PEOPLEThe Holiday Peoplesssss161PRADA Invites / RE-PRADA /<br>PRADA TIMECAPSULE SERIAL NPADRAsssss162THE IVY LEAGUEThe New Ivy Leaguessssss163UNITY TRUST BANK / UNITYUNITY REAL ESTATE LTDsssss164Dreams / DREAM BIGGER<br>Dreams / DREAM SOCACHDream Big Make Dua Move<br>Mountainsssssss165MOON PRINCESSTime Princessddddddddd166FASHIONGOFASHIONEGOsssssssss168ELLESSEELLISSsddddddddddddd168SOLE TRADER / SOLE / SOLE SOLE<br>/ SOLE SISTERSulSistarss <td></td> <td></td> <td>One Planet</td> <td>S</td> <td></td> <td></td> <td>d</td>   |     |  | One Planet                  | S |   |    | d |
| 159PATTERYatterddd160HOLIDAY PEOPLEThe Holiday Peoplessss161PRADA Invites / RE-PRADA /<br>PRADA TIMECAPSULE SERIAL NPADRAssss162THE IVY LEAGUEThe New Ivy Leaguesssss163UNITY TRUST BANK / UNITYUNITY RELESTATE LTDsssss164DREAMS / DREAM BIGGER /<br>DREAM COACHDream Big Make Dua Move<br>Mountainssssss165MOON PRINCESSTime Princessdddd166FASHIONGOFASHIONEGOsssss167THE SECRET GARDEN PARTYThe Secret Garden Glamping /<br>The Secret Gardenssss168ELLESSEELLISSsdddd168ELLESSEELLISSsdddd169SOLE SISTERSoule SisterSoule Sistersssss170SWOOP / FLY SWOOPSWOOP TAXIS / swooptaxisssssss173IDÉEidee-homessssssss173IDÉEidee-homessssssss174JOYBODY IN JOYssssssss175ROLEXDERMAROLLEX <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>   |     |  |                             |   |   |    |   |
| 160HOLIDAY PEOPLEThe Holiday Peoplessss161PRADA Invites / RE-PRADA /<br>PRADA TIMECAPSULE SERIAL NPADRAssss162THE IVY LEAGUEThe New Ivy Leaguesssss163UNITY TRUST BANK / UNITYUNITY REAL ESTATE LTDsssss164DREAMS / DREAM BIGGER<br>Dreams / DREAM DORCHDream Big Make Dua Move<br>Mountainssssss165MOON PRINCESSTime Princessdddd166FASHIONGOFASHIONEGOsssss167THE SECRET GARDEN PARTY<br>SOUE / SOLE / SOLE / SOLE / SOLE SISTERThe Secret Garden Glamping /<br>The Secret Gardensss168ELLESSEELLISSsddd169SOUE TRADER / SOLE / SOLE / SOLE SOLE /<br>SOUE / SOLE SISTERSoulSistarssss170SWOOP / FLY SWOOPSWOOP TAXIS / swooptaxissssss171WASHTOWERWashing Tower / Washer Towersssss172POTETTE PLUSPote Plussssss173IDÉEidee-homesssss174JOYBODY IN JOYsssss175ROLEXDERMAROLLEXdddd174LOVELLOLOVELLE <td< td=""><td>-</td><td></td><td></td><td>3</td><td></td><td></td><td></td></td<>  | -   |  |                             | 3 |   |    |   |
| 161PRADA Invites / RE-PRADA /<br>PRADA TIMECAPSULE SERIAL NPADRAssss162THE IVY LEAGUEThe New Ivy Leaguesssss163UNITY TRUST BANK / UNITYUNITY REAL ESTATE LTDsssss164DREAMS / DREAM BIGGER<br>Dreams / DREAM DOCACHDream Big Make Dua Move<br>Mountainssssss165MOON PRINCESSTime Princessddd166FASHIONGOFASHIONEGOsssss167THE SECRET GARDEN PARTY<br>/ SOLE TRADER / SOLE / SOLE / SOLE SOLE<br>/ SOLE TRADER / SOLE / SOLE SOLEsddd169SOLE TRADER / SOLE / SOLE SOLE<br>/ SOLE SISTERELLISSsdddd170SWOOP / FLY SWOOPSWOOP TAXIS / swooptaxisssssss171WASHTOWERWashing Tower / Washer Towerssssss173IDÉEidee-homesssssss174JOYBODY IN JOYsssssss175ROLEXDERMAROLLEXdddddd176BARRIERBarrier Coat??????177FLEXFLEXX BY BBOXXsssssss174JOYLOVELLEss  |     |  |                             | c |   | c  | - |
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| 163UNITY TRUST BANK / UNITYUNITY REAL ESTATE LTDsssss164DREAMS / DREAM BIGGER<br>Dreams / DREAM COACHDream Big Make Dua Move<br>Mountainsssssss165MOON PRINCESSTime Princessdddd166FASHIONGOFASHIONEGOsssss167THE SECRET GARDEN PARTYThe Secret Garden Glamping /<br>The Secret Gardenssdd168ELLESSEELLISSsdddd168SOLE TRADER / SOLE / SOLE SOLE<br>/ SOLE SISTERSoulSistarssss170SWOOP / FLY SWOOPSWOOP TAXIS / swooptaxissssss171WASHTOWERWashing Tower / Washer Towersssss172POTETTE PLUSPote Plusssssss173IDÉEidde-homesssssss176BARRIERBarrier Coat??????177FLEXFLEXX BY BBDXXsssssss178LOVELLOLOVELLEssssssss176BARRIERBarrier Coat???????177FLEXFLEXX BY BBDXXssssss <t< td=""><td></td><td>PRADA TIMECAPSULE SERIAL N</td><td></td><td></td><td></td><td></td><td></td></t<>   |     | PRADA TIMECAPSULE SERIAL N                                   |                             |   |   |    |   |
| DREAMS / DREAM BIGGER<br>Dreams / DREAM BIGGER /<br>DREAM COACHDream Big Make Dua Move<br>Mountainssssss165MOON PRINCESSTime Princessdd166FASHIONGOFASHIONEGOssss167THE SECRET GARDEN PARTYThe Secret Garden Glamping /<br>The Secret Gardens168ELLESSEELLISSsdd169SOLE TRADER / SOLE / SOLE SOLE<br>/ SOLE SISTERSoulSistarsss170SWOOP / FLY SWOOPSWOOP TAXIS / swooptaxisssss171WASHTOWERWashing Tower / Washer Towerssss172POTETTE PLUSPote Plussssss173IDÉEidde-homesssss174JOYBODY IN JOYsssss175ROLEXDERMAROLLEXdddd176BARRIERBarrier Coat????177FLEXFLEXX BY BBOXXsssss178LOVELLOLOVELLEsssss179easyLand / EASYNETWORKS /<br>EASYHUBEasyMapsddd180FASHIONSVARSITY / VARSITY SPIRIT<br>FASHIONSVARSITY HEADWEARssss181WAKENWakefulsssss <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>   |     |  |                             |   |   |    |   |
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| 167THE SECRET GARDEN PARTYThe Secret Gardens168ELLESSEELLISSsdd169SOLE TRADER / SOLE / SOLE SOLE<br>/ SOLE SISTERSoulSistarssss170SWOOP / FLY SWOOPSWOOP TAXIS / swooptaxissssss171WASHTOWERWashing Tower / Washer Towersssss172POTETTE PLUSPote Plussssss173IDÉEidee-homessdds174JOYBODY IN JOYsssss175ROLEXDERMAROLLEXddddd176BARRIERBarrier Coat????177FLEXFLEXX BY BBOXXssss178LOVELLOLOVELLEssss179easyLand / EASYNETWORKS /<br>EASYHUBEasyMapsddd180VARSITY / VARSITY SPIRIT<br>FASHIONSVARSITY HEADWEARssss181WAKENWakefulssssss  | 166 | FASHIONGO  | FASHIONEGO                  | S | S | S  | S |
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| 169/ SOLE SISTERSoulsistarssssss170SWOOP / FLY SWOOPSWOOP TAXIS / swooptaxissssss171WASHTOWERWashing Tower / Washer Towersssss172POTETTE PLUSPote Plussssss173IDÉEidee-homesssds174JOYBODY IN JOYsssss175ROLEXDERMAROLLEXddddd176BARRIERBarrier Coat????177FLEXFLEXX BY BBOXXssss178LOVELLOLOVELLEssss179easyLand / EASYNETWORKS /<br>EASYHUBEasyMapsddd180VARSITY / VARSITY SPIRIT<br>FASHIONSVARSITY HEADWEARsssss181WAKENWakefulssssss  | 168 | ELLESSE  |                             | s | d | d  | d |
| 170SWOOP / FLY SWOOPSWOOP TAXIS / swooptaxissssss171WASHTOWERWashing Tower / Washer Towersssss172POTETTE PLUSPote Plussssss173IDÉEidee-homesssds174JOYBODY IN JOYsssss175ROLEXDERMAROLLEXdddd176BARRIERBarrier Coat????177FLEXFLEXX BY BBOXXssss178LOVELLOLOVELLEssss179easyLand / EASYNETWORKS /<br>EASYHUBEasyMapsddd180VARSITY / VARSITY SPIRIT<br>FASHIONSVARSITY HEADWEARsssss181WAKENWakefulsssssss  | 169 |  | SoulSistar                  | S | S | S  | s |
| 171WASHTOWERWashing Tower / Washer Towersssss172POTETTE PLUSPote Plussssss173IDÉEidee-homesssds174JOYBODY IN JOYsssss175ROLEXDERMAROLLEXddddd176BARRIERBarrier Coat????177FLEXFLEXX BY BBOXXssss178LOVELLOLOVELLEssss179easyLand / EASYNETWORKS /<br>EASYHUBEasyMapsddd180VARSITY / VARSITY SPIRIT<br>FASHIONSVARSITY HEADWEARsssss181WAKENWakefulsssssss  | 170 | -  | SWOOP TAXIS / swooptaxis    | S | S | S  | S |
| 172POTETTE PLUSPote Plussssss173IDÉEidee-homessds174JOYBODY IN JOYssss175ROLEXDERMAROLLEXdddd176BARRIERBarrier Coat????177FLEXFLEXX BY BBOXXssss178LOVELLOLOVELLEssss179easyLand / EASYNETWORKS /<br>EASYHUBEasyMapsddd180VARSITY / VARSITY SPIRIT<br>FASHIONSVARSITY HEADWEARsssss181WAKENWakefulsssssss  |     | WASHTOWER  |                             |   |   |    |   |
| 173IDÉEidee-homessds174JOYBODY IN JOYssss175ROLEXDERMAROLLEXdddd176BARRIERBarrier Coat????177FLEXFLEXX BY BBOXXssss178LOVELLOLOVELLEssss179easyLand / EASYNETWORKS /<br>EASYHUBEasyMapsddd180VARSITY / VARSITY SPIRIT<br>FASHIONSVARSITY HEADWEARssss181WAKENWakefulsssss  |     |  | 0 1                         |   |   |    |   |
| 174JOYBODY IN JOYssss175ROLEXDERMAROLLEXdddd176BARRIERBarrier Coat????177FLEXFLEXX BY BBOXXssss178LOVELLOLOVELLEssss179easyLand / EASYNETWORKS /<br>EASYHUBEasyMapsddd180VARSITY / VARSITY SPIRIT<br>FASHIONSVARSITY HEADWEARssss181WAKENWakefulsssss  |     |  |                             |   |   |    |   |
| 175ROLEXDERMAROLLEXdddddd176BARRIERBarrier Coat?????177FLEXFLEXX BY BBOXXsssss178LOVELLOLOVELLEsssss179easyLand / EASYNETWORKS /<br>EASYHUBEasyMapsddd180VARSITY / VARSITY SPIRIT<br>FASHIONSVARSITY HEADWEARsssss181WAKENWakefulsssssss   |     |  |                             |   |   |    |   |
| 176BARRIERBarrier Coat????177FLEXFLEXX BY BBOXXsssss178LOVELLOLOVELLEsssss179easyLand / EASYNETWORKS /<br>EASYHUBEasyMapsddd180VARSITY / VARSITY SPIRIT<br>FASHIONSVARSITY HEADWEARsssss181WAKENWakefulssssss  |     |  |                             |   |   |    |   |
| 177FLEXFLEXX BY BBOXXssss178LOVELLOLOVELLEssss179easyLand / EASYNETWORKS /<br>EASYHUBEasyMapsddd180VARSITY / VARSITY SPIRIT<br>FASHIONSVARSITY HEADWEARssss181WAKENWakefulsssss  | -   |  |                             |   |   |    |   |
| 178LOVELLOLOVELLEsss179easyLand / EASYNETWORKS /<br>EASYHUBEasyMapsddd180VARSITY / VARSITY SPIRIT<br>FASHIONSVARSITY HEADWEARsssss181WAKENWakefulssssss  | -   |  |                             |   |   |    |   |
| 179easyLand / EASYNETWORKS /<br>EASYHUBEasyMapsddd180VARSITY / VARSITY SPIRIT<br>FASHIONSVARSITY HEADWEARssss181WAKENWakefulssss   |     |  |                             |   |   |    |   |
| 180VARSITY / VARSITY SPIRIT<br>FASHIONSVARSITY HEADWEARsss181WAKENWakefulssss  |     | easyLand / EASYNETWORKS /                                    |                             |   |   | d  |   |
| 181   WAKEN   Wakeful   s   s   s  | 180 | VARSITY / VARSITY SPIRIT                                     | VARSITY HEADWEAR            | S | S |    | s |
|  | 181 |  | Wakeful                     | S | S | S  | S |
|  |     |  | BLACK ADAM                  |   |   |    |   |

| 183         YALU         [HYALU] BIOTIC           184         Z-BIOME         BIOME         s         s                                |   | d |
|--|---|---|
|  |   | S |
| 185 Sleep Doctor / Sleep Dr Dr.sleep s s   | s | s |
| 100Steep Doctory Steep DiDiracep0186saneCBDSANEss  | s | s |
| 187     Closet. LONDON / CLOSET     THE LUXURY CLOSET     S     S  | s | s |
| 107Closel: Exhort (Closel: Choose )33188Lucky StrikeLUCKY BARss  | s | S |
| 189     ACTIVON MANUKA / ACTIVON     ARTIVION     S     S  | d | s |
| 100YORXSYorksS   | ŭ | s |
| 190AGROSagro Ss  | s | s |
|  |   |   |
| 192     SAVINGS / IVALUA BUYER     iValue Solutions     s     s  | S | S |
| 193Maplabmaplab.worldss  | S | S |
| 194   EVERY BODY   Everybodies   s   s   | S | S |
| 195     MATCH.COM / match / MG<br>MatchGroup     MatchMate     s     s   | s | S |
| 196 NOUGHTY NOUTI s d  |   | d |
| 197 Red Bull ELFBULL s s   | S | S |
| 198     SMART     SMARTCARE / SMART CARE /<br>SMARTBUSINESS / SMART<br>BUSINESS / SMARTCLASS /<br>SMART CLASS / SMARTSPACE     s     s | S | 5 |
| 199     SNAP     Snap Nurse / SnapNurse     s     s  | S | S |
| 200IV BOOSTIV PATCHss  | S | S |
| 201         UNITY         INVIVO X UNITY         s         s   | S | S |
| 202     Eye of Horus     EYE OF ATUM     s     s   | d | d |
| 203   THUNDER PRODUCTIONS   SUN AND THUNDER   d   d  | d | d |
| 204     VISTAINTRA / VISTAVOX /<br>VISTAPANO     VISTO     s     s   | d | d |
| 205 X WAY / XWAY Exway s s   |   | S |
| 206         XCODE / CORE ANIMATION /<br>CORE HAPTICS         XCORE         s         s   | d | S |
| 207     PETROL     PETROL REVOLT     s     s   | S | S |
| 207PETROEPETROE33208SCAFFEZESCAFFXss   | 3 | S |
| 209     BUBBLE / BUBL     BUBBLE ROCKET     S  | s | S |
| 210     THE LEONARDO COLLECTION     LEONARDO     s     s   | s | s |
| 210Hit ElonationElonation211LUCITELucis  | d | d |
| 211LocitieLocitie33212Sense / EssenceSENSEss   | d | d |
| 212SchoolSchoolSchool213TESTEXTEST-XS  | d | s |
| 214   Lister's Brewery / Lister's   Listers   s  | ŭ | s |
| 211Litter 5Litter 5215NishaMisha Cosmeticssss  | d | S |
| 216     AIRBNB     AIRBRICK     s     s  | - | S |
| 217     MOAT     Moat Systems / MOATSYSTEMS     s     s  | S | S |
| 218 ME YOU YOU ME S S  |   | S |
| KARMACASH / KARMAGIVES /   |   |   |
| 219 KARMACOIN KARMAPAY / KARMASHOPPING S S   | S | S |
| 220 GOBOX G-Box s s  | S | S |
| 221 ATMA AtmaSPA s s   | S | S |
| 222 BOSS Kissboss s s  | S | S |
| 223 CHAINLINK / CHAINLINK LABS LINK s s  | d | d |
| 224         JESSICA LONDON         JESSICA JOY LONDON         s         s  | S | S |
| 225 SNUGGLEDOWN Snugglemore s s  | S | S |
| 226 AXIS TRAXIS d d  | d | d |
| 227     Gadget Centre     Gadget Centre UK Ltd     s     s   | S | S |
| 228         WHITEHORSE LIQUIDITY<br>PARTNERS         WHITEHORSE / H.I.G.<br>WHITEHORSE         s         s                             | S | S |
| 229 BILLIONAIRE ZILLIONAIRE S S  | S | S |
| 230     GOLFHER     The Golphers     s     s   | S | S |
| 231   PRED   PRD TECHNOLOGY   d   d  |   | d |
| 232 GHOST GHOSTDANCER CBD s d  | S | d |

| 233 | NATURLI'                                   | NATUREAL      | S | S | S | S |
|-----|--|---------------|---|---|---|---|
| 234 | GLENFIDDICH                                | Inverfiddich  | S | S | S | S |
| 235 | CONFIGON                                   | CONFIGO       | S | S |   | S |
| 236 | PURPLE COMPUTING / PURPLE                  | PURPLECUBE    | d | d | d | d |
| 237 | CREATEME                                   | Create.       | S | S | S | S |
| 238 | sky / SKY X                                | YSKY          | d | d | S | S |
| 239 | RING                                       | Home Ring     | S | S | S | S |
| 240 | CHLOE / Chloé                              | chloédigital  | S | S | S | S |
| 241 | YOU BEAUTY DISCOVERY / YOU<br>BEAUTY / YOU | YOU·OLOGY     | d | d | d | d |
| 242 | SIO / SIO BEAUTY                           | RIO COSMETICS | d | d | d | d |
| 243 | DCSL                                       | DCS           | S | S |   | S |

# Appendix B: LCSSQs and LCSSTs, and 'remainders', for the 243 pairs of marks

| Mark 1                                     | Mark 2                                     | LCSSQ  | Rem. 1 | Rem. 2 | LCSST  | Rem. 1 | Rem. 2 | Mod.<br>RatOb.<br>similarity |
|--|--|--|--------|--------|--|--------|--------|------------------------------|
| glow up:<br>britain's next<br>make-up star | glow up:<br>britain's next<br>make-up star | glow up:<br>britain's<br>next make-<br>up star |        |        | glow up:<br>britain's<br>next make-<br>up star |        |        | 1.000                        |
| meta                                       | meta                                       | meta   |        |        | meta   |        |        | 1.000                        |
| mustang                                    | mustang                                    | mustang  |        |        | mustang  |        |        | 1.000                        |
| sense                                      | sense                                      | sense  |        |        | sense  |        |        | 1.000                        |
| fittipaldi                                 | efittipaldi                                | fittipaldi                                     |        | e      | fittipaldi                                     |        | e      | 0.957                        |
| configon                                   | configo                                    | configo  | n      |        | configo  | n      |        | 0.941                        |
| consiglieri                                | consigliera                                | consiglier                                     | i      | а      | consiglier                                     | i      | а      | 0.917                        |
| billionaire                                | zillionaire                                | illionaire                                     | b      | z      | illionaire                                     | b      | Z      | 0.917                        |
| mysugardadd<br>y                           | sugardaddy                                 | sugardaddy                                     | my     |        | sugardaddy                                     | my     |        | 0.917                        |
| 1link                                      | link                                       | link   | 1      |        | link   | 1      |        | 0.909                        |
| xway                                       | exway                                      | xway   |        | e      | xway   |        | e      | 0.909                        |
| this girl can                              | this girl came                             | this girl ca                                   | n      | me     | this girl ca                                   | n      | me     | 0.897                        |
| dcsl                                       | dcs  | dcs  | 1      |        | dcs  | 1      |        | 0.889                        |
| eataliano                                  | eatalia                                    | eatalia  | no     |        | eatalia  | no     |        | 0.889                        |
| sir  | siro                                       | sir  |        | 0      | sir  |        | 0      | 0.889                        |
| sky  | ysky                                       | sky  |        | y      | sky  |        | y      | 0.889                        |
| lister's                                   | listers                                    | listers  | 1      | /      | lister   | 's     | s      | 0.882                        |
| makeup                                     | makeup                                     | makeup   | e      | ing    | makeup   | e      | ing    | 0.882                        |
| wardrobe<br>holiday                        | wardrobing<br>the holiday                  | wardrob<br>holiday                             |        |        | wardrob<br>holiday                             |        |        |                              |
| people                                     | people                                     | people   |        | te h   | people   |        | the    | 0.882                        |
| lovello                                    | lovelle                                    | lovell   | 0      | e      | lovell   | 0      | e      | 0.875                        |
| carbon                                     | mycarbon                                   | carbon   |        | my     | carbon   |        | my     | 0.875                        |
| dennis                                     | dennis g                                   | dennis   |        | g      | dennis   |        | g      | 0.875                        |
| fashiongo                                  | fashionego                                 | fashiongo                                      |        | e      | fashion  | go     | ego    | 0.857                        |
| chooey                                     | chooee                                     | chooe  | У      | e      | chooe  | У      | е      | 0.857                        |
| prinker                                    | prink                                      | prink  | er     |        | prink  | er     |        | 0.857                        |
| realme                                     | realmz                                     | realm  | е      | z      | realm  | е      | z      | 0.857                        |
| kramer                                     | cramer                                     | ramer  | k      | с      | ramer  | k      | с      | 0.857                        |
| hanson                                     | hansol                                     | hanso  | n      | 1      | hanso  | n      | 1      | 0.857                        |
| patter                                     | yatter                                     | atter  | р      | у      | atter  | р      | у      | 0.857                        |
| z-biome                                    | biome                                      | biome  | Z-     |        | biome  | Z-     |        | 0.857                        |
| pt powerpod                                | powerpod                                   | powerpod                                       | tp     |        | powerpod                                       | pt     |        | 0.857                        |
| the secret                                 | the secret                                 | the secret                                     |        |        | the secret                                     |        |        |                              |
| garden party                               | garden                                     | garden   | party  |        | garden   | party  |        | 0.857                        |
| perpetual                                  | perpetuel                                  | perpetul                                       | а      | e      | perpetu  | al     | el     | 0.850                        |
| agros                                      | agro s                                     | agros  |        |        | agro   | S      | s      | 0.846                        |
| lucite                                     | luci                                       | luci   | te     |        | luci   | te     |        | 0.833                        |
| very                                       | veryco                                     | very   |        | со     | very   |        | со     | 0.833                        |
| axis                                       | traxis                                     | axis   |        | tr     | axis   |        | tr     | 0.833                        |
| lotus                                      | motus                                      | otus   | 1      | m      | otus   | 1      | m      | 0.833                        |

| mflor             | hflor                   | flor              | m       | h      | flor             | m       | h       | 0.833 |
|-------------------|-------------------------|-------------------|---------|--------|------------------|---------|---------|-------|
| skin <sup>2</sup> | skins                   | skin              | 2       | S      | skin             | 2       | s       | 0.833 |
| createme          | create.                 | create            | me      |        | create           | me      |         | 0.833 |
| victoria          | victoro                 | victor            | ia      |        | victor           | ia      | 0       | 0.824 |
| the good          | the good                | the good          | -       |        | the good         |         |         |       |
| schools guide     | school                  | school            | s guide |        | school           | s guide |         | 0.821 |
| treca             | trea                    | trea              | с       |        | tre              | са      | а       | 0.818 |
| george            | georgine                | george            |         | in     | georg            | е       | ine     | 0.813 |
| resolution        | resolute                | resolut           | ion     | е      | resolut          | ion     | e       | 0.800 |
| foltene           | foltex                  | folte             | ne      | x      | folte            | ne      | x       | 0.800 |
| live              | vive                    | ive               | 1       | v      | ive              | 1       | v       | 0.800 |
| salio             | saliogen                | salio             |         | gen    | salio            |         | gen     | 0.800 |
| e-bulli           | bullit                  | bulli             | e-      | t      | bulli            | e-      | t       | 0.800 |
| hotpatch          | patch                   | patch             | hot     |        | patch            | hot     |         | 0.800 |
| diamond mist      | diamond max             | diamond m         | ist     | ax     | diamond m        | ist     | ах      | 0.800 |
| puma              | huma                    | uma               | р       | h      | uma              | р       | h       | 0.800 |
| gadget centre     | gadget centre<br>uk Itd | gadget<br>centre  |         | uk Itd | gadget<br>centre |         | uk ltd  | 0.800 |
| the ivy league    | the new ivy<br>league   | the ivy<br>league |         | new    | ivy league       | the     | the new | 0.794 |
| testex            | test-x                  | testx             | е       | -      | test             | ex      | -x      | 0.786 |
| potette plus      | pote plus               | pote plus         | tte     |        | te plus          | potet   | ро      | 0.783 |
| burgerme          | burgerly                | burger            | me      | ly     | burger           | me      | ly      | 0.778 |
| purple            | purplecube              | purple            |         | cube   | purple           |         | cube    | 0.778 |
| str8              | st8                     | st8               | r       |        | st               | r8      | 8       | 0.778 |
| cintra            | citra                   | citra             | n       |        | tra              | cin     | ci      | 0.769 |
| prinz             | prinse                  | prin              | Z       | se     | prin             | Z       | se      | 0.769 |
| chef              | chefchy                 | chef              |         | chy    | chef             |         | chy     | 0.769 |
| atma              | atmaspa                 | atma              |         | spa    | atma             |         | spa     | 0.769 |
| boss              | bossvel                 | boss              |         | vel    | boss             |         | vel     | 0.769 |
| sane              | cbdsane                 | sane              |         | cbd    | sane             |         | cbd     | 0.769 |
| ryzen             | ryzeup                  | ryze              | n       | up     | ryze             | n       | up      | 0.769 |
| boss              | bosseur                 | boss              |         | eur    | boss             |         | eur     | 0.769 |
| barrier           | barrier coat            | barrier           |         | coat   | barrier          |         | coat    | 0.762 |
| gobox             | g-box                   | gbox              | 0       | -      | box              | go      | g-      | 0.750 |
| vidas             | vidya                   | vida              | s       | У      | vid              | as      | уа      | 0.750 |
| yorxs             | yorks                   | yors              | x       | k      | yor              | xs      | ks      | 0.750 |
| mbet              | m-bets                  | mbet              |         | -s     | bet              | m       | m-s     | 0.750 |
| zara              | zarzar                  | zara              |         | zr     | zar              | а       | zar     | 0.750 |
| vizrt             | vizst                   | vizt              | r       | s      | viz              | rt      | st      | 0.750 |
| xcode             | xcore                   | хсое              | d       | r      | хсо              | de      | re      | 0.750 |
| moon princess     | time princess           | m princess        | oon     | tie    | princess         | moon    | time    | 0.750 |
| scaffeze          | scaffx                  | scaff             | eze     | x      | scaff            | eze     | x       | 0.750 |
| nrj               | nrg                     | nr                | j       | g      | nr               | j       | g       | 0.750 |
| match             | matchmate               | match             |         | mate   | match            |         | mate    | 0.750 |
| mygenecare        | mygenes                 | mygene            | care    | s      | mygene           | care    | s       | 0.737 |
| asprey            | dave asprey             | asprey            |         | dve a  | asprey           |         | dave    | 0.737 |
| mutant            | mega mutant             | mutant            |         | ega m  | mutant           |         | mega    | 0.737 |

|                |                               | <b>.</b>           |        |                      |                   |          |                       |       |
|----------------|-------------------------------|--------------------|--------|----------------------|-------------------|----------|-----------------------|-------|
| halloumi       | grilloumi                     | lloumi             | ha     | gri                  | lloumi            | ha       | gri                   | 0.737 |
| energeo        | enerjo                        | enero              | ge     | j                    | ener              | geo      | јо                    | 0.733 |
| matters        | m4tter                        | mtter              | as     | 4                    | tter              | mas      | m4                    | 0.733 |
| demiegod       | demigods                      | demigod            | e      | s                    | demi              | egod     | gods                  | 0.722 |
| naturli'       | natureal                      | naturl             | i'     | еа                   | natur             | li'      | eal                   | 0.722 |
| azure          | azurity                       | azur               | е      | ity                  | azur              | е        | ity                   | 0.714 |
| waken          | wakeful                       | wake               | n      | ful                  | wake              | n        | ful                   | 0.714 |
| boss           | kissboss                      | boss               |        | kiss                 | boss              |          | kiss                  | 0.714 |
| ping           | pingnpay                      | ping               |        | npay                 | ping              |          | npay                  | 0.714 |
| уода           | yoga man                      | yoga               |        | man                  | yoga              |          | man                   | 0.714 |
| repevax        | epvax                         | epvax              | re     |                      | vax               | repe     | ер                    | 0.714 |
| snuggledown    | snugglemore                   | snuggleo           | dwn    | mre                  | snuggle           | down     | more                  | 0.708 |
| resolva        | consolva                      | solva              | re     | con                  | solva             | re       | con                   | 0.706 |
| swift          | microswift                    | swift              |        | micro                | swift             |          | micro                 | 0.706 |
| smart          | smart care                    | smart              |        | care                 | smart             |          | care                  | 0.706 |
| jessica london | jessica joy<br>london         | jessica<br>london  |        | јоу                  | jessica           | london   | joy london            | 0.706 |
| philips        | philzops                      | philps             | i      | ZO                   | phil              | ips      | zops                  | 0.706 |
| asos           | asas                          | ass                | 0      | а                    | as                | OS       | as                    | 0.700 |
| curve          | crv                           | crv                | ue     |                      | rv                | cue      | с                     | 0.700 |
| mbfw           | mvfw                          | mfw                | b      | v                    | fw                | mb       | mv                    | 0.700 |
| rabe           | rase                          | rae                | b      | s                    | ra                | be       | se                    | 0.700 |
| fido           | fiio                          | fio                | d      | i                    | fi                | do       | io                    | 0.700 |
| ulma           | luma                          | uma                | 1      | 1                    | ma                | ul       | lu                    | 0.700 |
| maplab         | maplab.world                  | maplab             |        | .world               | maplab            |          | .world                | 0.700 |
| flowers        | flower cafe                   | flower             | s      | cafe                 | flower            | s        | cafe                  | 0.700 |
| pusher         | pushers only                  | pusher             |        | s only               | pusher            |          | s only                | 0.700 |
| savant         | savant power                  | savant             |        | power                | savant            |          | power                 | 0.700 |
| karmacoin      | karmacash                     | karmac             | oin    | ash                  | karmac            | oin      | ash                   | 0.700 |
| intellicare    | intelecare                    | intelcare          | li     | e                    | intel             | licare   | ecare                 | 0.696 |
| paris-match    | pari match                    | parimatch          | s-     |                      | match             | paris-   | pari                  | 0.696 |
| washtower      | washer tower                  | washtower          | 5      | er                   | tower             | wash     | washer                | 0.696 |
| agrho          | agro s                        | agro               | h      | s                    | agr               | ho       | 0 S                   | 0.692 |
| pikdare        | pi-kare                       | pikare             | d      | -                    | are               | pikd     | pi-k                  | 0.688 |
| retaron        | retiron                       | retron             |        | 1                    | ret               | aron     | Iron                  | 0.688 |
|                |                               |                    | a<br>d | 1                    |                   |          |                       | 0.688 |
| goddess        | godless                       | godess<br>pockt    |        |                      | god               | dess     | less                  | 0.688 |
| pockit         | mypocket                      | •                  | i      | mye                  | pock              | it<br>:  | myet                  |       |
| ibaccy         | biccy baccy<br>cane and grain | ibaccy<br>cane and |        | bccy<br>internationa | baccy<br>cane and | i        | biccy<br>internationa | 0.684 |
| cane and grain | international                 | grain              |        |                      | grain             |          | I                     | 0.682 |
| glenfiddich    | inverfiddich                  | efiddich           | gln    | invr                 | fiddich           | glen     | inver                 | 0.680 |
| eye of horus   | eye of atum                   | eye of u           | hors   | atm                  | eye of            | horus    | atum                  | 0.680 |
| lemon perfect  | peach perfect                 | e perfect          | Imon   | pach                 | perfect           | lemon    | peach                 | 0.679 |
| ellesse        | elliss                        | ellss              | ee     | i                    | ell               | esse     | iss                   | 0.667 |
| compal         | copalli                       | copal              | m      | li                   | pal               | com      | coli                  | 0.667 |
| sizzling       |                               |                    |        |                      |                   |          |                       |       |
| fortunes       | sizzling bells                | sizzling es        | fortun | bll                  | sizzling          | fortunes | bells                 | 0.667 |

| shepherd           | wolf and shepherd        | shepherd     |         | wolf and    | shepherd  |         | wolf and    | 0.667 |
|--------------------|--------------------------|--------------|---------|-------------|-----------|---------|-------------|-------|
| zara               | zareus                   | zar          | а       | eus         | zar       | а       | eus         | 0.667 |
| dreams             | dream rite               | dream        | s       | rite        | dream     | s       | rite        | 0.667 |
| life               | chop life                | life         |         | chop        | life      |         | chop        | 0.667 |
| du feu             | du feu design            | du feu       |         | design      | du feu    |         | design      | 0.667 |
| volvo              | volta                    | vol          | vo      | ta          | vol       | vo      | ta          | 0.667 |
| swoop              | swoop taxis              | swoop        |         | taxis       | swoop     |         | taxis       | 0.667 |
| sleep dr           | dr.sleep                 | sleep        | dr      | dr.         | sleep     | dr      | dr.         | 0.667 |
| petrol             | petrol revolt            | petrol       |         | revolt      | petrol    |         | revolt      | 0.667 |
| bubble             | bubble rocket            | bubble       |         | rocket      | bubble    |         | rocket      | 0.667 |
| chainlink          | link                     | link         | chain   |             | link      | chain   |             | 0.667 |
| ring               | home ring                | ring         |         | home        | ring      |         | home        | 0.667 |
| idee               | idee-home                | idee         |         | -home       | idee      |         | -home       | 0.667 |
| wear the<br>change | wear the future          | wear the e   | chang   | futur       | wear the  | change  | future      | 0.656 |
| every body         | everybodies              | everybod     | У       | ies         | every     | body    | bodies      | 0.652 |
| lucky strike       | lucky bar                | lucky r      | stike   | ba          | lucky     | strike  | bar         | 0.652 |
| noughty            | naughtea                 | nught        | оу      | аеа         | ught      | noy     | naea        | 0.647 |
| easyland           | easymap                  | easya        | Ind     | mp          | easy      | land    | map         | 0.647 |
| red bull           | elfbull                  | ebull        | rd      | lf          | bull      | red     | elf         | 0.647 |
| activon            | artivion                 | ativon       | с       | ri          | tiv       | acon    | arion       | 0.647 |
| anytime<br>fitness | anytime pro              | anytime      | fitness | pro         | anytime   | fitness | pro         | 0.643 |
| saypha             | shaype                   | sayp         | ha      | he          | аур       | sha     | she         | 0.643 |
| noughty            | nouti                    | nout         | ghy     | i           | nou       | ghty    | ti          | 0.643 |
| sherco             | charco                   | hrco         | se      | са          | rco       | she     | cha         | 0.643 |
| satisfyer          | simply satisfy           | satisfy      | er      | imply s     | satisfy   | er      | simply      | 0.640 |
| varsity            | varsity<br>headwear      | varsity      |         | headwear    | varsity   |         | headwear    | 0.640 |
| catapult vision    | catapult<br>consulting   | catapult sin | vio     | conultg     | catapult  | vision  | consulting  | 0.639 |
| zemo               | zoomo                    | zmo          | e       | 00          | mo        | ze      | z00         | 0.636 |
| oyster             | oyster and pop           | oyster       |         | and pop     | oyster    |         | and pop     | 0.636 |
| folium science     | folium                   | folium       | science |             | folium    | science |             | 0.636 |
| geneverse          | genv3rse                 | genvrse      | ee      | 3           | rse       | geneve  | genv3       | 0.632 |
| chloe              | chloedigital             | chloe        |         | digital     | chloe     |         | digital     | 0.632 |
| suntech            | suntank                  | sunt         | ech     | ank         | sunt      | ech     | ank         | 0.625 |
| airbnb             | airbrick                 | airb         | nb      | rick        | airb      | nb      | rick        | 0.625 |
| waterford          | lady louisa<br>waterford | waterford    |         | lady louisa | waterford |         | lady louisa | 0.625 |
| snap               | snap nurse               | snap         |         | nurse       | snap      |         | nurse       | 0.625 |
| nutravita          | nootrovita               | ntrvita      | ua      | 000         | vita      | nutra   | nootro      | 0.619 |
| flexolid           | kp flexilid              | flexlid      | 0       | kp i        | flex      | olid    | kp ilid     | 0.619 |
| fransa             | fanza                    | fana         | rs      | z           | an        | frsa    | fza         | 0.615 |
| cazoo              | carkoo                   | саоо         | z       | rk          | са        | 200     | rkoo        | 0.615 |
| gizebra            | debra the<br>gizebra     | gizebra      |         | debra the   | gizebra   |         | debra the   | 0.615 |
| x15                | vivo x15                 | x15          |         | vivo        | x15       |         | vivo        | 0.615 |
| lip injection      | lipjection gloss         | lipjection   | in      | gloss       | jection   | lip in  | lip gloss   | 0.613 |

| sole sister             | soulsistar              | solsistr       |                |              | sist       | sole er           | soular            | 0.609          |
|-------------------------|-------------------------|----------------|----------------|--------------|------------|-------------------|-------------------|----------------|
|                         |                         |                | e e            | ua<br>r      | а          |                   |                   |                |
| pyra                    | prya<br>alpha force     | pya<br>alpha o |                | frce         | a<br>alpha | pyr               | pry<br>force      | 0.600<br>0.600 |
| alpha boxing            | •                       |                | bxing          |              | hink       | boxing            | force             |                |
| thinksmart              | xhinkcar                | hinkar         | tsmt           | XC           |            | tsmart            | xcar              | 0.600          |
| hyprr                   | hypernft                | hypr           | r              | enft         | hyp        | rr                | ernft             | 0.600          |
| md                      | intimd                  | md             |                | inti         | md         |                   | inti              | 0.600          |
| jolly                   | jolly peckish           | jolly          |                | peckish      | jolly      |                   | peckish           | 0.600          |
| activist                | activist<br>ingredients | activist       |                | ingredients  | activist   |                   | ingredients       | 0.600          |
| vault ip                | brandvault              | vault          | ір             | brand        | vault      | ip                | brand             | 0.600          |
| rebelle<br>copenhagen   | rebelle beauty          | rebelle ea     | copnhgen       | buty         | rebelle    | copenhagen        | beauty            | 0.588          |
| lush                    | lush lights             | lush           |                | lights       | lush       |                   | lights            | 0.588          |
| vistaintra              | visto                   | vist           | aintra         | 0            | vist       | aintra            | 0                 | 0.588          |
| live                    | life's                  | lie            | v              | f's          | li         | ve                | fe's              | 0.583          |
| skullcandy              | skull gaming            | skullan        | cdy            | gmig         | skull      | candy             | gaming            | 0.583          |
| croc'odor               | cocod'or                | cocodor        | r'             | 1            | od         | croc'or           | coc'or            | 0.579          |
| ak damm                 | black adam              | ak dam         | m              | blca         | dam        | ak m              | black a           | 0.579          |
| tygrys                  | tigris                  | tgrs           | уу             | ii           | gr         | tyys              | tiis              | 0.571          |
| easyjet                 | easycosmetic            | easyet         | j              | cosmic       | easy       | jet               | cosmetic          | 0.571          |
| vfh                     | vfhonline               | vfh            |                | online       | vfh        |                   | online            | 0.571          |
| sky                     | sky force               | sky            |                | force        | sky        |                   | force             | 0.571          |
| six days                | day6                    | day            | six s          | 6            | day        | six s             | 6                 | 0.571          |
| stones                  | stone brewing           | stone          | S              | brewing      | stone      | s                 | brewing           | 0.571          |
| honda                   | honbike                 | hon            | da             | bike         | hon        | da                | bike              | 0.571          |
| clean v                 | drink clean.            | clean          | v              | drink .      | clean      | v                 | drink .           | 0.571          |
| unity                   | invivo x unity          | unity          |                | invivo x     | unity      |                   | invivo x          | 0.571          |
| me you                  | you me                  | you            | me             | me           | you        | me                | me                | 0.571          |
| you                     | you∙ology               | you            |                | ∙ology       | you        |                   | ∙ology            | 0.571          |
| dose and co.            | dose labs               | dose a         | nd co.         | lbs          | dose       | and co.           | labs              | 0.565          |
| eureka!                 | eureka<br>education     | eureka         | !              | education    | eureka     | i                 | education         | 0.560          |
| planet bottle           | one planet              | planet         | bottle         | one          | planet     | bottle            | one               | 0.560          |
| closet                  | the luxury<br>closet    | closet         |                | the luxury   | closet     |                   | the luxury        | 0.560          |
| rolex                   | dermarollex             | rolex          |                | demarl       | lex        | ro                | dermarol          | 0.556          |
| moat                    | moat systems            | moat           |                | systems      | moat       |                   | systems           | 0.556          |
| evolutiq                | essential<br>evolution  | evoluti        | q              | ssential eon | evoluti    | q                 | essential on      | 0.552          |
| bad boy                 | bad boy chiller<br>crew | bad boy        |                | chiller crew | bad boy    |                   | chiller crew      | 0.552          |
| armalight               | armatherm               | armah          | ligt           | term         | arma       | light             | therm             | 0.550          |
| click eat               | subway click<br>and eat | click eat      |                | subway and   | click      | eat               | subway and<br>eat | 0.548          |
| cartils                 | cartel design           | cartis         | i              | e deign      | cart       | ils               | el design         | 0.545          |
| the leonardo collection | leonardo                | leonardo       | the collection |              | leonardo   | the<br>collection |                   | 0.545          |
| ghost                   | ghostdancer<br>cbd      | ghost          |                | dancer cbd   | ghost      | -                 | dancer cbd        | 0.545          |

| whitehorse<br>liquidity<br>partners | whitehorse                                 | whitehorse  | liquidity<br>partners |                                  | whitehorse | liquidity<br>partners |                                   | 0.537 |
|-------------------------------------|--|-------------|-----------------------|----------------------------------|------------|-----------------------|-----------------------------------|-------|
| re-prada                            | padra                                      | pada        | re-r                  | r                                | ra         | re-pda                | pad                               | 0.533 |
| pxg pharma                          | pxg  | pxg         | pharma                |                                  | рхд        | pharma                |                                   | 0.533 |
| one4all                             | onefor                                     | one         | 4all                  | for                              | one        | 4all                  | for                               | 0.533 |
| coversyl                            | covixyl-v                                  | covyl       | ers                   | ix-v                             | cov        | ersyl                 | ixyl-v                            | 0.526 |
| aesculap                            | aeskucare                                  | aesca       | ulp                   | kure                             | aes        | culap                 | kucare                            | 0.526 |
| amma                                | amma wellness                              | amma        | p                     | wellness                         | amma       | Carap                 | wellness                          | 0.526 |
| golfher                             | the golphers                               | golher      | f                     | the ps                           | her        | golf                  | the golps                         | 0.524 |
| kelio                               | kleeo                                      | keo         | li                    | le                               | k          | elio                  | leeo                              | 0.500 |
| iv boost                            | iv patch                                   | iv t        | boos                  | pach                             | iv         | boost                 | patch                             | 0.500 |
| 3monkeys                            | 3 monkeys<br>communicatio<br>ns            | 3monkeys    |                       | communicat                       | monkeys    | 3                     | 3<br>communicat<br>ions           | 0.500 |
| bones                               | bones of<br>barbados                       | bones       |                       | of barbados                      | bones      |                       | of barbados                       | 0.500 |
| xactimate                           | buildxact                                  | xact        | imate                 | build                            | xact       | imate                 | build                             | 0.500 |
| јоу                                 | body in joy                                | јоу         |                       | body in                          | јоу        |                       | body in                           | 0.500 |
| flex                                | flexx by bboxx                             | flex        |                       | x by bboxx                       | flex       |                       | x by bboxx                        | 0.500 |
| yalu                                | [hyalu] biotic                             | yalu        |                       | [h] biotic                       | yalu       |                       | [h] biotic                        | 0.500 |
| ivalua                              | ivalue<br>solutions                        | ivalu       | а                     | e solutions                      | ivalu      | а                     | e solutions                       | 0.500 |
| just                                | just the ticket                            | just        |                       | the ticket                       | just       |                       | the ticket                        | 0.476 |
| next                                | nxtwear s                                  | nxt         | е                     | wear s                           | xt         | ne                    | nwear s                           | 0.467 |
| amazon                              | amazon food<br>trader Itd                  | amazon      |                       | food trader<br>Itd               | amazon     |                       | food trader<br>Itd                | 0.467 |
| nisha                               | misha<br>cosmetics                         | isha        | n                     | m cosmetics                      | isha       | n                     | m cosmetics                       | 0.455 |
| thunder<br>productions              | sun and<br>thunder                         | thunder     | productions           | sun and                          | thunder    | productions           | sun and                           | 0.444 |
| bloo                                | bluuwash                                   | bl          | 00                    | uuwash                           | bl         | 00                    | uuwash                            | 0.429 |
| pi                                  | pianywhere                                 | рі          |                       | anywhere                         | рі         |                       | anywhere                          | 0.429 |
| unity                               | unity real<br>estate ltd                   | unity       |                       | real estate<br>Itd               | unity      |                       | real estate<br>Itd                | 0.429 |
| last<br>shelter:surviva<br>l        | doomsday: last<br>survivors                | last surviv | helter:sal            | doomsday:<br>ors                 | last s     | helter:survi<br>val   | doomsday:<br>urvivors             | 0.404 |
| gap                                 | gal london                                 | ga          | р                     | llondon                          | ga         | р                     | l london                          | 0.400 |
| cult beauty                         | perfume cult                               | cult        | beauty                | perfume                          | cult       | beauty                | perfume                           | 0.400 |
| spear and<br>jackson<br>predator    | predator<br>gutter vacuum                  | pear ac     | sandjkson<br>predator | rdtogutterv<br>uum               | predator   | spear and<br>jackson  | gutter<br>vacuum                  | 0.360 |
| pred                                | prd technology                             | pre         | d                     | d tchnology                      | pr         | ed                    | d<br>technology                   | 0.350 |
| sio                                 | rio cosmetics                              | si          | 0                     | rio cometcs                      | io         | s                     | r cosmetics                       | 0.333 |
| dreams                              | dream big<br>make dua<br>move<br>mountains | dreams      |                       | big make<br>dua move<br>mountain | dream      | s                     | big make<br>dua move<br>mountains | 0.317 |
| 6x                                  | vivo x6                                    | 6           | х                     | vivo x                           | 6          | x                     | vivo x                            | 0.182 |