VFormants file legend

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| Column | Variable |
|  | Heading | AdditionalClarification | Variable and additional clarification |
| B | TargetV | Vowel adjacent to target consonant | front:i (IPA=ɪ), c (IPA=ø), e, j (IPA=ij)back:v (IPA=ʊ), w (IPA=ɯ), a (IPA=ɑ), u (IPA=uw) |
| C | Vfront | Vowel frontness | front (=front or [-back] vowels)back (=back or [+back] vowels) |
| D | Vheight | Vowel height | high (=[+high] vowels)low (=[-high] vowels) |
| E | VPos | Vowel position to adjacent target consonant | before (=preceding target consonant)after (=following target consonant) |
| F | TargetC | Target consonant | dorsal:k, g (IPA=ɡ)q, R (IPA=ʁ)Xcoronal: t, ds, zlabial:p, b |
| G | TargetCType | Target consonant type | Dorsal (=dorsal consonants)nonDorsal (=coronal and labial consonants) |
| H | CPosSyll | Target consonant position in the syllable | onsetnucleascodaonsetsuf (=refers to dat suffix only)\* |
| I | CPosWord | Target consonant position in the word | begin (=stem-initial target consonant)mid (=stem-medial target consonant)end (=stem-final target consonant)midsuf (=stem-medial target consonant at morpheme boundary) |
| J | WordNum | Word number | number in randomised word list |
| K | Token | Token number | 1 (=first pronunciation of word)2 (=second pronunciation of word)3 (=third pronunciation of word) |
| L | NonceWordType | Nonce word type | Bare (=bare word production)Infl (=inflected word production |

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| M | Structure | Word form | ISO (=isolation – for bare nonce forms only)PL (=plural forms)POSS (=possessive forms)INF (=infinitive form)PST (=past forms)PRS (=present form)DAT (=dative form)N (=noun – for real bare words only) |
| N | WordType | Word type | nonce (=nonce word)real (=real Kazakh word) |
| O | Interval | Percent interval within the vowel production |  |
| P | F1 | F1 value |  |
| Q | F2 | F2 value |  |
| S | F3 | F3 value |  |

For additional information, please contact heather.yawney@gmail.com.