

```

(full syllable weight calc):
=IF(NUCLEUS_WEIGHT=0,
    0,
    (SUM(ALL_ONSET_WEIGHTS)/(COUNT(ALL_ONSET_WEIGHTS)*MAX_NOTE_WEIGHT))
)
+IF(OR(FIRST_CODA_WEIGHT=0,FIRST_ONSET_WEIGHT=0),
    IF(NUCLEUS_WEIGHT>NOTE_WEIGHT,
        NOTE_WEIGHT,
        NUCLEUS_WEIGHT
    ),
    NUCLEUS_WEIGHT
)
+(SUM(SECOND_THROUGH_FOURTH_CODA_WEIGHTS)/(COUNT(SECOND_THROUGH_FOURTH_CODA_WEIGHTS)*MAX_NOTE_WEIGHT))
-IF(NEXT_LEADING_ONSET_WEIGHT=0,
    IF(OFFSET(THIS_TRAILING_CODA_WEIGHT,0,-
COUNTIF(THIS_ALL_CODA_WEIGHT,0))=THIS_FIRST_CODA_WEIGHT,
        IF(NUCLEUS_WEIGHT>1,
            (NUCLEUS_WEIGHT-1)+((OFFSET(THIS_TRAILING_CODA_WEIGHT,0,-
COUNTIF(THIS_ALL_CODA_WEIGHT,0)))/((COUNT(SECOND_THROUGH_FOURTH_CODA_WEIGHTS)-
COUNTBLANK(SECOND_THROUGH_FOURTH_CODA_WEIGHTS))*MAX_NOTE_WEIGHT)),
            OFFSET(THIS_TRAILING_CODA_WEIGHT,0,-
COUNTIF(THIS_ALL_CODA_WEIGHT,0))/
((COUNT(SECOND_THROUGH_FOURTH_CODA_WEIGHTS)-
COUNTBLANK(SECOND_THROUGH_FOURTH_CODA_WEIGHTS))*MAX_NOTE_WEIGHT)
        ),
        OFFSET(THIS_TRAILING_CODA_WEIGHT,0,-
COUNTIF(THIS_ALL_CODA_WEIGHT,0))/((COUNT(SECOND_THROUGH_FOURTH_CODA_WEIGHTS)-
COUNTBLANK(SECOND_THROUGH_FOURTH_CODA_WEIGHTS))*MAX_NOTE_WEIGHT)
    ),
    0
)

```

STEP 2 (is valid):

```
=IF(THIS_UNADJUSTED_SYLLABLE_WEIGHT > THIS_NOTE_WEIGHT,
    IF(NEXT_LEADING_ONSET_PHONE=THIS_TRAILING_CODA_PHONE,
        IF( (THIS_UNADJUSTED_SYLLABLE_WEIGHT - 1 <= THIS_NOTE_WEIGHT +
NEXT_NOTE_WEIGHT ),
            THIS_NOTE_WEIGHT,
            0
        ),
        IF(NEXT_LEADING_ONSET_PHONE = 0,
            IF(THIS_UNADJUSTED_SYLLABLE_WEIGHT <= THIS_NOTE_WEIGHT +
NEXT_NOTE_WEIGHT,
                THIS_NOTE_WEIGHT,
                0
            ),
            IF( AND( FIRST_ONSET_PHONE = 0, SECOND_ONSET_PHONE != 0),
                IF(THIS_UNADJUSTED_SYLLABLE_WEIGHT -
SECOND_ONSET_PHONE/MAX_NOTE_WEIGHT <= THIS_NOTE_WEIGHT +
NEXT_NOTE_WEIGHT,
                    THIS_NOTE_WEIGHT,
                    0
                ),
                0
            )
        )
    ),
    NOTE_WEIGHT
)
```