SMAW Music Format

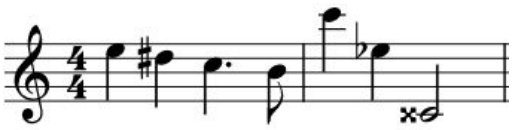
Version 1.0

- Includes:
    - Note pitch [**Using scientific pitch notation**]
        - **→ Letter (char)**
        - **→ Octave (num)**
        - **→ Accidental (num)**
            - 0 for natural
            - 1 for sharp
            - -1 for flat
            - 2 for double sharp
            - -2 for double flat
    - Note length
        - **→ Base note (num)**
            - 1 for whole note
            - 2 for half note
            - 4 for quarter note…
            - 256th note is the minimum in Noteflight
        - **→ Dotted (0 or 1)**
            - 0 for not dotted
            - 1 for dotted

Format for a single note
(string) letter pitch, (num) octave, (num) accidental, (num) note length, (0 or 1) dotted

* Each music note's information is on a separate line

Example

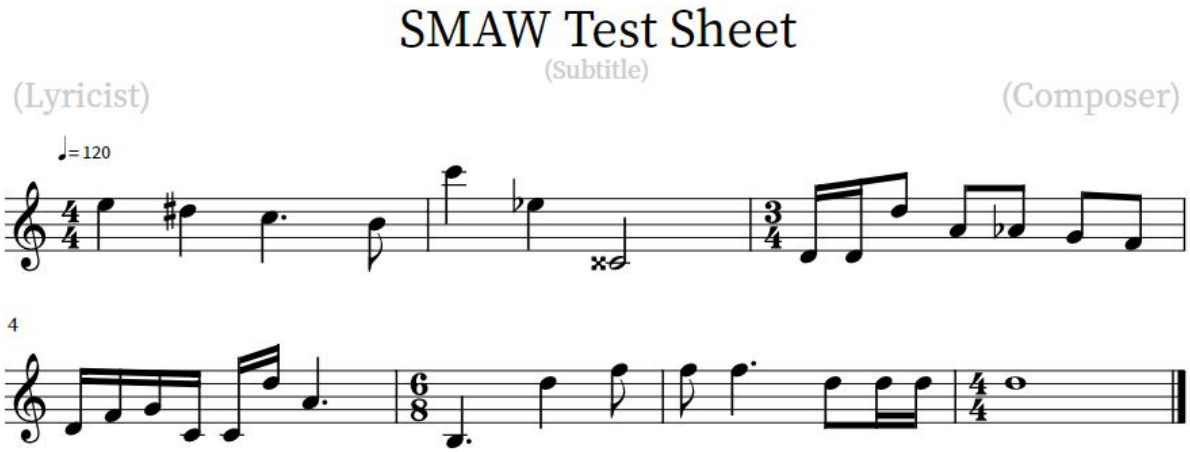
Sheet Music	Comma Separated Value List
	4, 4 e,5,0,4,0 d,5,1,4,0 c,5,0,4,1 b,4,0,8,0 c,6,0,4,0 e,5,-1,4,0 c,4,2,2,0

Pseudocode
Set default octave at g4 ⇒ set previous octave to be g4 (because that's how Noteflight is)
Set default note length at quarter note ⇒ set previous note length to be quarter (no dot)

Loop for every note (string, num, num, num, num)

1. Read note letter pitch ⇒ Press letter key
2. Read octave number, compare to previous
    a. ⇒ determine if there needs to be a Ctrl + Up or Ctrl + Down (using math)
3. Read accidental
    a. Natural 0: =
    b. Sharp 1: +
    c. Flat -1: -
    d. Double sharp: *
    e. Double flat: _
4. Read note length, compare to previous
    a. ⇒ determine if there needs to be a [or] (using math)
5. Read dotted or not, compare to previous
    a. ⇒ determine if needs to press . (if different)

<u>Final Music Sample Test (v1.0)</u>



.csv file contents:
4,4
e,5,0,4,0
d,5,1,4,0
c,5,0,4,1
b,4,0,8,0
c,6,0,4,0
e,5,-1,4,0
c,4,2,2,0
3,4
d,4,0,16,0
d,4,0,16,0
d,5,0,8,0

a,4,0,8,0
a,4,-1,8,0
g,4,0,8,0
f,4,0,8,0
d,4,0,16,0
f,4,0,16,0
g,4,0,16,0
c,4,0,16,0
c,4,0,16,0
d,5,0,16,0
a,4,0,4,1
6,8
b,3,0,4,1
d,5,0,4,0
f,5,0,8,0
f,5,0,8,0
f,5,0,4,1
d,5,0,8,0
d,5,0,16,0
d,5,0,16,0
4,4
d,5,0,1,0