

User Manual

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1. Introduction

The TAB-2-MusicXML[™] (T.2.M) converter takes the tablatures of guitar (and eventually percussion) music, and converts them into a musicXML file. This user manual will go over how to install the current version of the T.2.M and how to use it.

2. Contact Details

If you have any further questions or concerns, please feel free to reach out to us through our email (EECS2311Team4@gmail.com).

3. Product Name

TAB-2-MusicXML™

4. Model Number

Version 3.0

5. Installation Instructions

- 1) Clone the repository and import into your IDE of choice.
- 2) Open the "Gradle Tasks" window in your IDE.
- 3) The program utilizes Gradle, please hit "build" in Gradle Tasks to compile the program.
- 4) Once compiled, click the "run" in Gradle Tasks to run the program.
- 5) For further information please refer to the readme at our repository at https://github.com/Nobaiha/EECS2311_Project_G4

6. Important Information

Drum tablature conversion is not fully functional. If you wish to use it, these are some things you must keep in mind:

- The duration of each note is not accurate
- Must only have one note per column (As in only one note at a time).

7. How To Get Started

Here are "quick start" written instructions and a video link for a quick tutorial of the program found at https://www.youtube.com/watch?v=BxA4vHd6Ghk

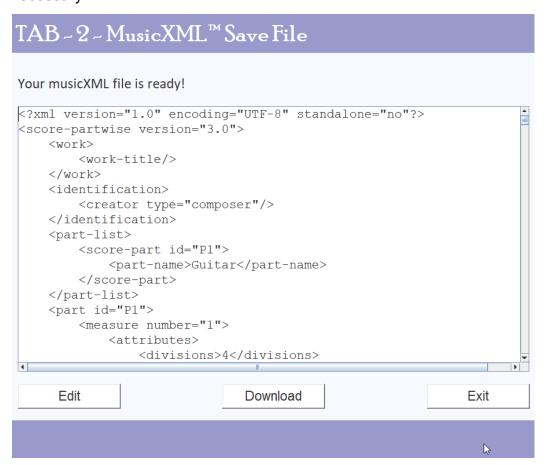
1) Once the application has started up, you will be greeted by the welcome window. Click the "Start" button to proceed.



2) In the next window, you are able to either browse for a text tablature or paste a tablature into the box. If any modifications need to be made with the tablature itself, you are able to edit the text box directly. The "Modifications" button will also open up more options for different components of the tab. Select which instrument you are converting for using the dropdown menu and hit "Convert" when you are ready to convert the tab.

TAB~2~MusicXML™Upload		
Pick a file from your file explorer of type ".txt" that contains your tablature music or		
or paste it in the window below.		
No file currently selected	Browse Guitar ▼	
Convert	Modifications	
Back		

3) In the following screen, your MusicXML is outputted, you can copy the output directly, or download it and save it to your computer, it will automatically open in your preferred MusicXML program. If you are unsatisfied with the output, you can hit "Edit" to go back to the previous screen to make any edits necessary.



4) Now that you have your musicXML file, you can view/play it on these websites or your preferred software:

https://www.soundslice.com/musicxml-viewer/ https://opensheetmusicdisplay.github.io/demo/

5) For more detailed information on each window, please check the section below.

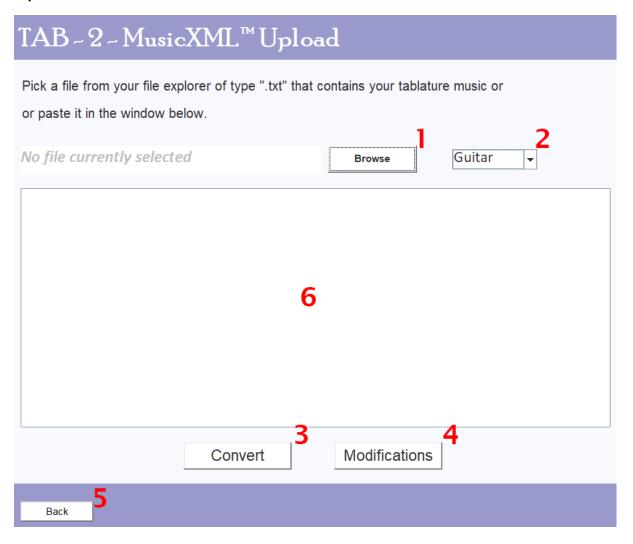
8. Detailed Usage Instructions

Starting Screen



1	Starts the program.
2	Opens up the user manual.
3	Opens up a video tutorial on how to use the program.

Upload/Browse Screen



1	Opens up the file explorer for you to import a text tablature file into the program.
2	Instrument selector. You can choose between a guitar, bass, and drums. Please select the appropriate instrument for your tablature.
3	Hit this button to convert the tablature once you are ready.
4	Opens up the modifications window where you can make various changes to the tab such as key signature and time signature.
5	Returns to the start window.
6	Text area where you can paste a text tab, or modify an imported tab.

Modifications Screen

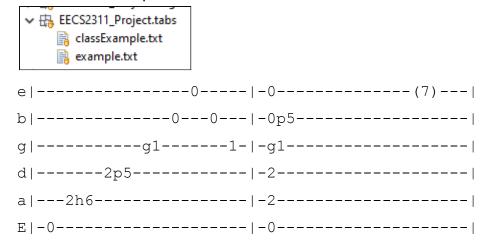
TAB ~ 2 ~ Musi	cXML™ Modifications
	add small modifications to your tab. You will be er, title of your tab, key and time signature. Once ess "Confirm".
Composer: Title of Tab: Key: Time Signature:	1 2 2 C major 3 4 / 4 4 5 C Onfirm 5

1	Enter the composer of your piece here.
2	Enter the title of the piece here.
3	You can select the key signature here.
4	You can change the time signature of the piece here.
5	Hit this to save the modifications and return to the previous window.

9. Formatting Guidelines

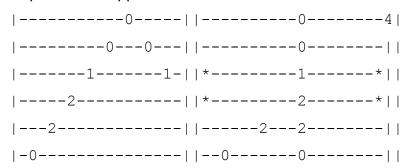
Below lists some formatting guidelines for the tabs to ensure that output is correct and consistent.

a) There are some example tabs listed in the directory below for you to see how an example tab should look like.



- b) Tabs can either have the string letters before each line or can be preceded just with the "|" symbol.
- c) Each line must be the same length.
- d) Each measure of each string should end/begin on the same character.
- e) Each line must finish with a "|" symbol.
- f) Hammer ons are represented by an "h" between 2 numbers.
- g) Pull Offs are represented by a "p" between 2 numbers.
- h) Grace notes are represented by a "g" in front of a number.
- i) Harmonics are represented by brackets around a note "(7)"
- j) Notes should not overlap unless they are in a chord
 - i) For modified notes such as graces and hammer ons, the chord is read on the first character. Thus, notes should be arranged as above on the 2nd measure.

k) Repeats are supported in two formats shown below.



```
|----REPEAT-3X----|
e|-----0----|-0------|
b|-----0---|-0------|
g|-----1-|-1------|
d|----2------|-2------|
e|-0-----|-0------|
```

10. Usage Scenarios

10.1) A person pastes a tablature into the program

- a) Hampton starts up the program and chooses to paste his tablature in the program instead of uploading a ".txt" file.
- b) He pastes his tablature into the input window.
- c) After converting, he then hits download and chooses where to save the file.
- d) Now he exits the program and can go use his MusicXML file.

10.2) A person uploads a tablature into the program

- a) Nastasia starts up the program and chooses to upload the ".txt" file of her tablature in the program instead of pasting it in. She presses the "Upload Tab" button to get started.
- b) She clicks the "Browse" button and locates the place where she downloaded the file. After double-clicking it, the file is uploaded to the program and she clicks the "Convert" button.
- c) After converting, she then hits download and chooses where to save the file.
- d) Now she exits the program and can go use her MusicXML file.

10.3) A person wishes to make modifications to their tab

- a) Henry starts the program and imports his tab, he wishes to then make some modifications such as adding the tab name, composer, or setting the time signature.
- b) He hits the "Modifications" button to open up the modifications window.
- c) He enters all the information he wants to change and hits "Confirm"
- d) He then returns to the previous window, converts his tab, and saves it.

10.4) A person wishes to edit their tab after converting

 a) Lily starts the program, inputs her tab, and hits convert, but then is not satisfied with the output.

b) At the save screen, she hits "Edit" to be taken back to the previous window and makes any wanted changes to her tab.

- c) She hits "Convert" again and the program will convert her tab again with her desired changes.
- d) She is satisfied with the tab now and saves it to her computer.

10.5) A person accidentally clicks the wrong file to upload

- a) James starts the program and attempts to browse for a text tab. He accidentally clicks on a wrong file and imports it.
- b) The program will inform him via an error message that the file is not supported.
- c) He clicks 'ok' and is taken back to where he was and is able to try again.

10.6) A person enters a tab with the wrong format

- a) Max starts the program and imports a tab.
- b) Max decides to edit the tab a little bit but accidentally messes up the formatting while doing so by adding random letters in the tab and hits convert.
- c) He will receive an error message from the program indicating what has gone wrong and where exactly it went wrong.
- d) Max will be taken back to the previous screen and he can look for the mistake he made and correct it.

11. Troubleshooting

10.1) Error screen related issues

- a) If you encounter the error screen, the most common issues are:
 - i) The uploaded file is not in ".txt" format.
 - ii) The uploaded or pasted input is not a recognized tablature format.
 - iii) The program could not process your tablature.
 - iv) The wrong instrument was selected.
- b) Please ensure the tab is in the correct format as listed above in the formatting guidelines section

c) If the program recognizes where the error occurred, a more detailed error window will appear telling you where exactly the error occurred, please navigate to the section and double-check the text tablature.



12. Maintenance Information

The user should be vigilant about maintaining updates for program improvements and patch issues/bugs once the software has been installed. All future updates will be free, users can update their programs from the same installation link.

13. Uninstallation Instructions

The software program can be disposed of by right-clicking on the icon of the TAB-2-MusicXML™ and clicking "Delete" to remove the program. Then remove the project from your disc.

14. Technical Specifications

a) Operating system: Windows/Mac

b) Platform: Java

c) Language: English

d) Downloadable desktop application