User Manual

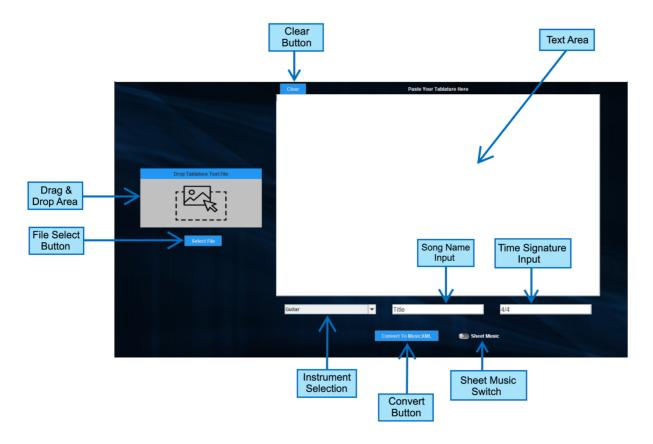
MXLify EECS 2311 - Group 9

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1. Application Interface



Drag & Drop Area: Drag and drop your tablature text file to upload.

Text Area: Copy and paste your text tablature to upload.

File Select Button: Opens the file explorer to select your text file to upload.

Instrument Selection: Select which instrument your tablature is for: Guitar, Drums, or Bass.

Song Name Input: Input the name of the song.

Time Signature Input: Input the time signature for the song (In the form beat/beat-type, e.g 4/4)

Convert Button: To convert your uploaded tablature to MusicXML

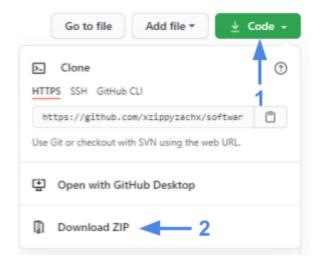
Clear Button: To clear the text area

Sheet Music Switch: To toggle whether a visual sheet music file should be generated

2. Install Instructions

2.1 Download:

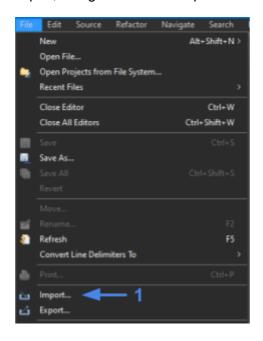
Download the projects master branch from github (<u>Link</u>)

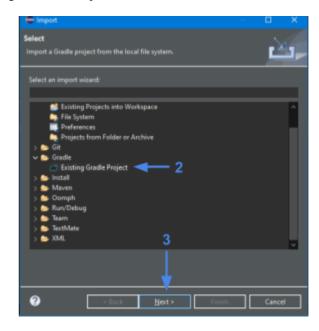


2.2 Eclipse Install:

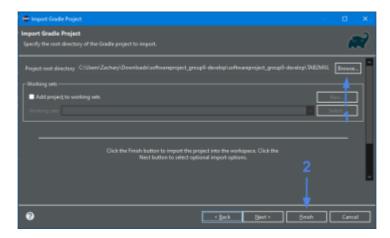
Unzip the downloaded file to a location of your choosing

In eclipse, navigate to File > Import > Existing Gradle Project. Then click next.

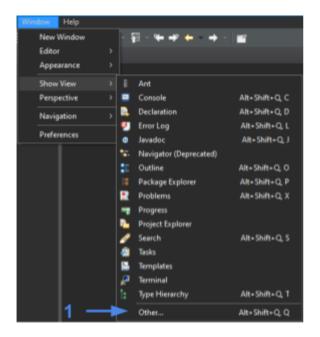


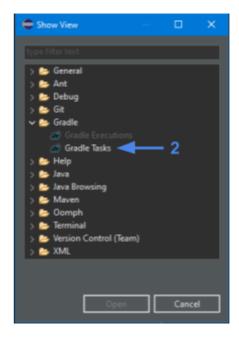


Use browse to select the TAB2MXL folder from the unzipped project file. Then click finish.

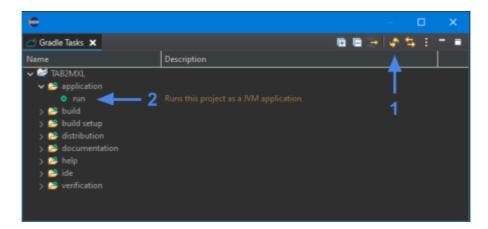


Navigate to Window > Show View > Other > Gradle > Gradle Tasks





In gradle tasks, refresh the tasks. Then navigate to TAB2MXL > Application > run. Finally double click the run to start the software.



3. Usage Instructions

3.1 Input Text Tablature:

There are three possible methods to input text tablature.

Method A: Using the <u>select file button</u> an open file menu will appear. Select the text file you wish to input. The contents of the file will then populate the text area.

Method B: Drag the file you wish to input into the <u>drag & drop area</u>. The contents of the file will then populate the text area.

<u>Method C:</u> Copy and paste your text into the <u>text area</u>. The contents of your clipboard will then populate the text area.

3.2 Edit Tablature:

Using the <u>text area</u> you can modify/add to your text tablature. Make sure the tablature follows the <u>supported formats</u>. The <u>text area</u> can be cleared using the <u>clear button</u>.

3.3 Customize Tunings:

Within the <u>text area</u> you can modify/add letters at the start of the tablature representing the string tunes. Make sure the letters are one of the <u>supported tunes</u>.

3.4 Customize MusicXML Settings:

Using the instrument selection drop-down you can select what instrument the tablature is.

Using the song name input you can input the song name of the tablature.

Using the <u>time signature input</u> you can input the time signature of the tablature. Inputting just a number will set the beat to that value and the beat type to the default value of 4. Inputting a number followed by a slash "/" and another number will set the beat and beat type to the number values respectively.

3.5 Convert and Save:

Use the <u>convert button</u> to convert your text tablature to a MusicXML file. Ensure that your text tablature is in a <u>supported format</u> before converting. If you're prompted with an error when attempting to convert, look at the <u>troubleshooting</u> section for possible solutions. If you want to preview your tablature in the standard music sheet format. Toggle the <u>sheet music switch</u> to also generate a visual representation of your tablature.

4. Common Usage Scenarios

4.1 Your First Conversion:

For your first conversion start by <u>inputting your text tablature</u>. Your text tablature should now appear in the <u>text area</u>. Select the proper instrument via the <u>instrument selection</u> dropdown. Input the song name via the <u>song name input</u> field. Input the time signature via the <u>time</u> <u>signature input</u> field. Lastly, select the <u>convert to MusicXML</u> button to convert and save the MusicXML file.

4.2 Modifying Text Tablature:

Inferring that your text tablature has already been added to the <u>text area</u>. You can modify your text tablature in the <u>text area</u> as defined in the <u>edit tablature</u> section. When you're finished your modifications you can then <u>customize the MusicXML settings</u> and then select the <u>convert to MusicXML</u> button to convert and save the MusicXML file.

4.3 Changing The Time Signature:

After selecting the tablature you want to create the MusicXML format for, in <u>time signature</u> <u>input</u> field you input the time signature you want for your tablature (in the format beat/beat-type). If the time signature is not in the right format, then the default time signature '4/4' will be used.

5. Supported Formats

5.1 Defining Measures:

The start of a measure is defined by a straight vertical line made up of "|" characters in the text area. The last measure may also end with this.

5.2 Defining Notes:

Notes are defined by a number on the strings that represents the fret. Refer to <u>defining note</u> <u>durations</u> to understand how these numbers can be placed.

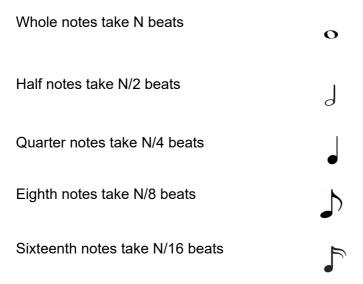
5.3 Defining Tuning:

Tuning is defined by the letters at the beginning of the tablature, and if the tuning is not specified, a default tuning(e, B, G, D, A, E) will be set. The supported tunes are E, B, G, D, A, C, F, F#, C#, G#, A#, and D#.

(Note: When you indicate your tuning and you have two notes that are the same but one has a lower octave, indicate the one with lower octave with lowercase)

Ex 1:	Ex 2:	Ex 3:
B -0	e -0	C -0
D 3-1-3- - E -	a 3-1-3- - G -	B 3-1-3- D
A	D · A ·	A
F - D -	E	F E

5.4 Defining Note Durations:



These are the standard note durations you will most likely encounter when converting tablature to MusicXML format. In the <u>text area</u> the duration is indicated by "-" characters. How durations are defined can be best explained through examples.

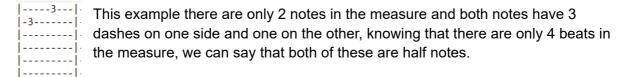
Ex 1:

-0-0-0	This is a measure that uses a 4/4 time signature, there are 2 notes that have
	one dash on their left and on their right, these notes last N/4 beats. The final
	note has 3 dashes on the right side indicating it lasts longer. Knowing this we
	can say that this note is a half note which sums the number of beats to 4,
	satisfying the time signature.

Ex 2:

-0	Like the previous example this measure uses a 4/4 time signature. There are 4
3-1-3-	beats in this measure and all of which have a dash on their left and on their right.
ii	Knowing that this measure can only have 4 beats and all the beats are the same
	duration we can say that these are all quarter notes.

Ex 3:



6. Troubleshooting

6.1 Empty Fields:

This indicates that a field is empty, to fix this problem fill the fields with the required information. Refer to the <u>customize MusicXML settings</u> section for more information.

6.2 Empty Text area:

This indicates that no tablature has been provided to the software. This can be resolved by either uploading your tablature, copying and pasting your tablature into the text field or dragging your tablature into the specified field. Refer to the <u>input text tabulator</u> section for more information.

6.3 Tune Not Recognized:

This indicates that the tuning is not supported. This can be resolved by changing the tune to a supported tune listed in the <u>defining tuning</u> section.

6.4 Wrong Formatting:

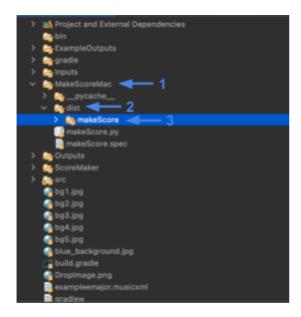
This indicates that the formatting of the text tablature in the <u>text area</u> is wrong. This can be resolved by <u>editing the tablature</u> to follow the proper formatting indicated in the <u>supported formats</u> section.

6.5 MacOS Sheet Music Permissions:

Due to the strict security measures on MacOS there are some steps we might need to complete first to give the application the appropriate permissions in order to convert your tablature to sheet music.

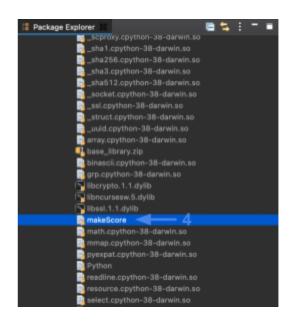
Windows users can ignore the following steps.

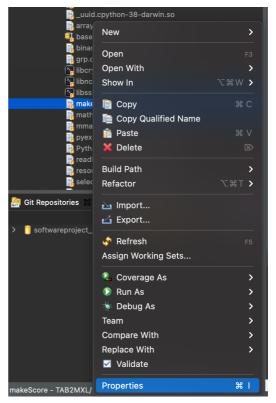
In the TAB2XML folder navigate to the MakeScoreMac/dist/makeScore Folder



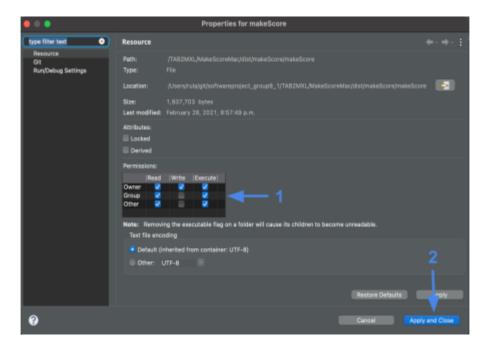
Look for the Properties option and left click

Once in that directory find the file called makeScore and right click

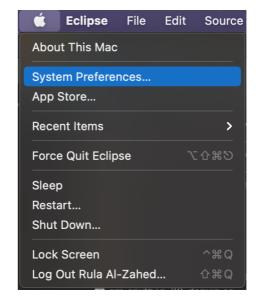




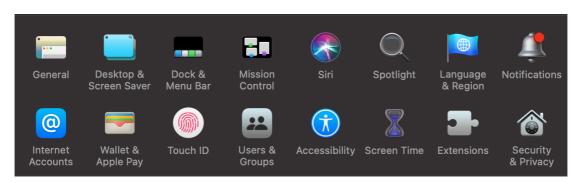
Make sure the Execute checkboxes are selected for Owner, Group and Other. This allows the application MakeScore to be executed from Eclipse. Then click Apply and Close



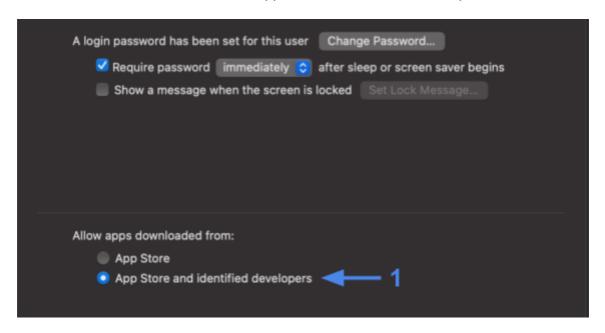
Click on the Apple icon on the top left of the screen and click on **System Preferences**



Navigate to and click on Security and Privacy

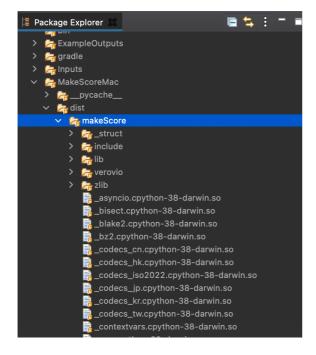


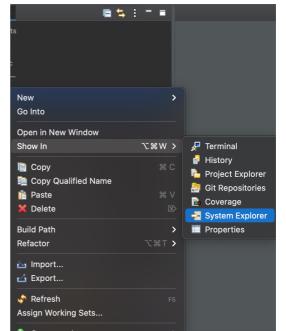
In the General Tab the checkbox for "App Store and identified developers" is checked



Back in Eclipse navigate back to the MakeScoreMac/dist/makeScore directory

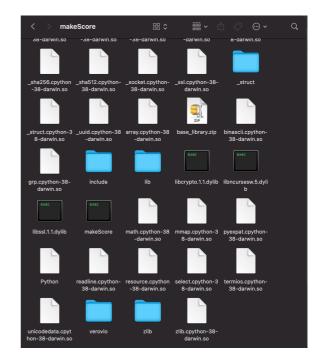




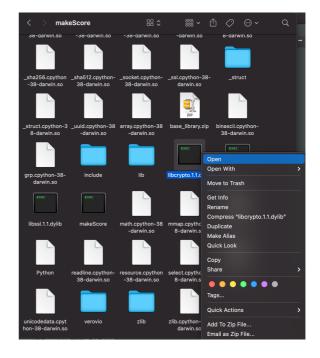


Once the folder is open in finder window scroll down until you locate the following files:

- libcrypto.1.1.dylib
- libncursesw.dylib
- libssl.1.1.dylib
- makeScore



Control + Right Click on each of those files and select open, this grants the application the permission to run on your computer (Control + Right click saves the preferences so you only need to do this once).



If there are any other notifications about unidentified developers head to the **General tab** in **Security and Privacy** and manually allow the application permission to run.

Now the Tablature to sheet music conversion should work error free. If any other issues occur please contact me at yasseralzahed@gmail.com