

Group 5

TAB2XML User Manual

April 2022

EECS 2311

Duaa Ali, Michelle Saltoun, Mohammad Paurobally, Vincent Mai, and Joshua Hanif

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1 Introduction

This document describes step-by-step instructions that a user can follow in order to successfully install and use TAB2XML.

2 Prerequisites

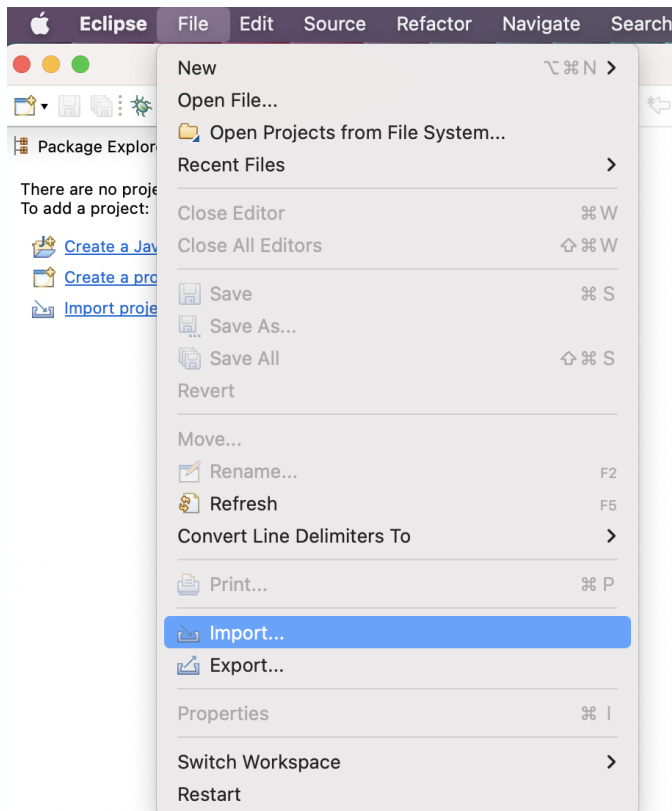
This application works on all major operating systems and assumes that you have a recent version of Java 17, or at least Java 11 installed.

3 How to install TAB2XML

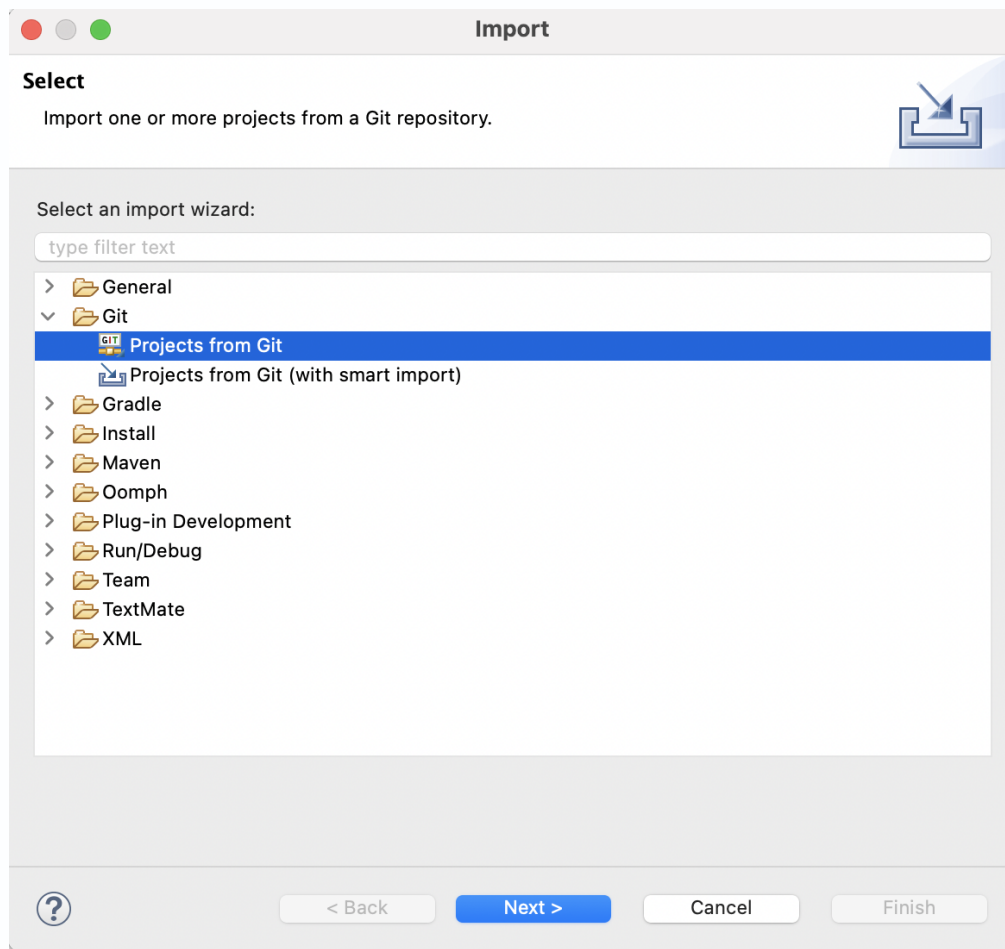
3.1 Eclipse

This section explains how to get a working version of the application in Eclipse. JDK 17.0.2 and Eclipse 2021-12 (4.22.0) were used for the IDE screenshots.

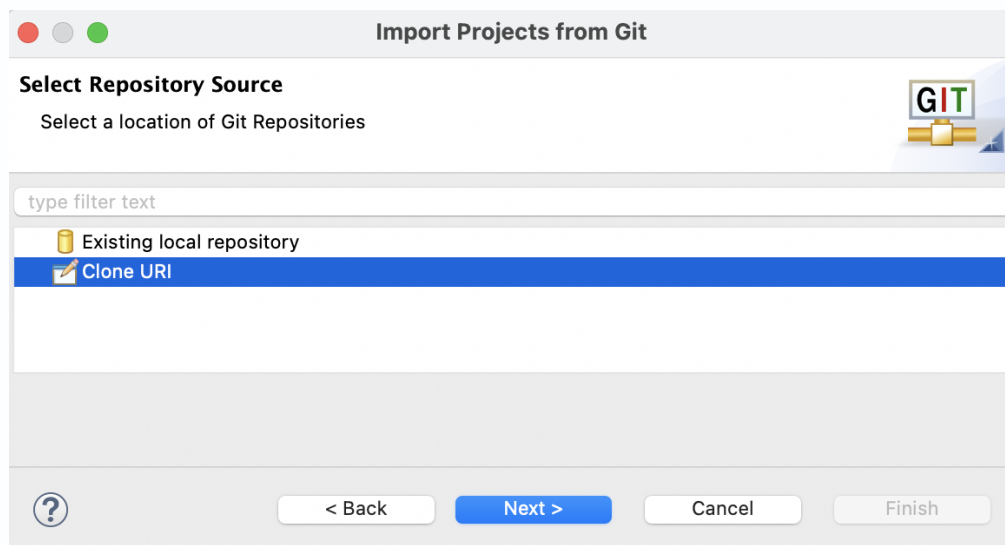
1. Open Eclipse, and click on import projects.



2. In the new window that opens, select Git > Projects from Git. Then click “Next”.



3. Click “Clone URI” then click “Next”.



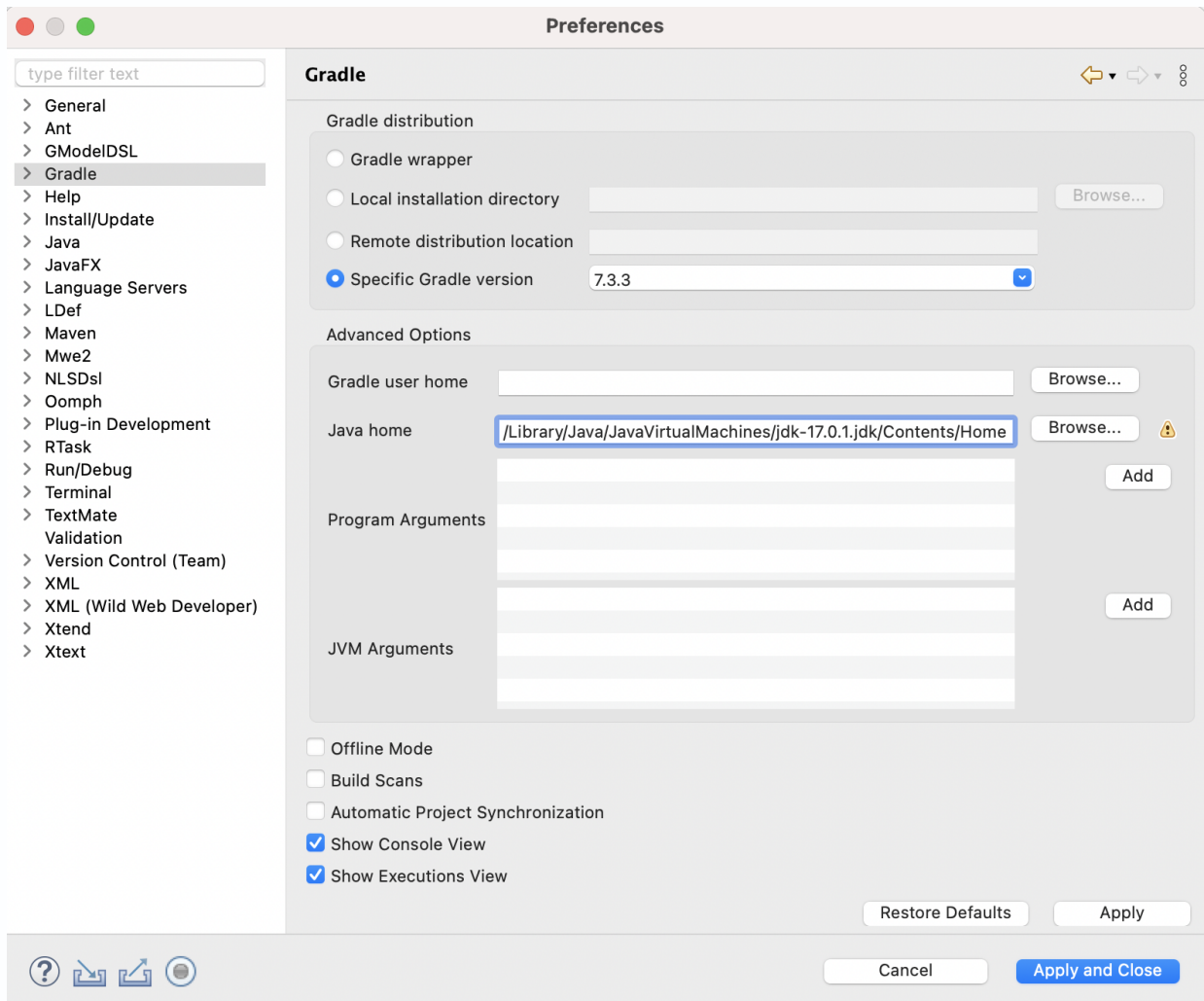
4. In the “URI” field, enter "https://github.com/michelle-salt/TAB2XML.git".

The screenshot shows the 'Import Projects from Git' dialog box. The title bar says 'Import Projects from Git'. Below the title bar, there's a section titled 'Source Git Repository' with a subtitle 'Enter the location of the source repository.' and a Git logo. The dialog is divided into three main sections: 'Location', 'Connection', and 'Authentication'. In the 'Location' section, the 'URI' field is highlighted with a blue border and contains the text 'https://github.com/michelle-salt/TAB2XML.git'. To its right are buttons for 'Local Folder...' and 'Local Bundle File...'. Below 'URI' are fields for 'Host' (containing 'github.com') and 'Repository path' (containing '/michelle-salt/TAB2XML.git'). The 'Connection' section has a 'Protocol' dropdown set to 'https' and an empty 'Port' field. The 'Authentication' section has a 'User' field containing 'Duaaa29', a 'Password' field filled with dots, and a checked checkbox labeled 'Store in Secure Store'. At the bottom, there are buttons: a help icon (?), '< Back', 'Next >' (highlighted in blue), 'Cancel', and 'Finish'.

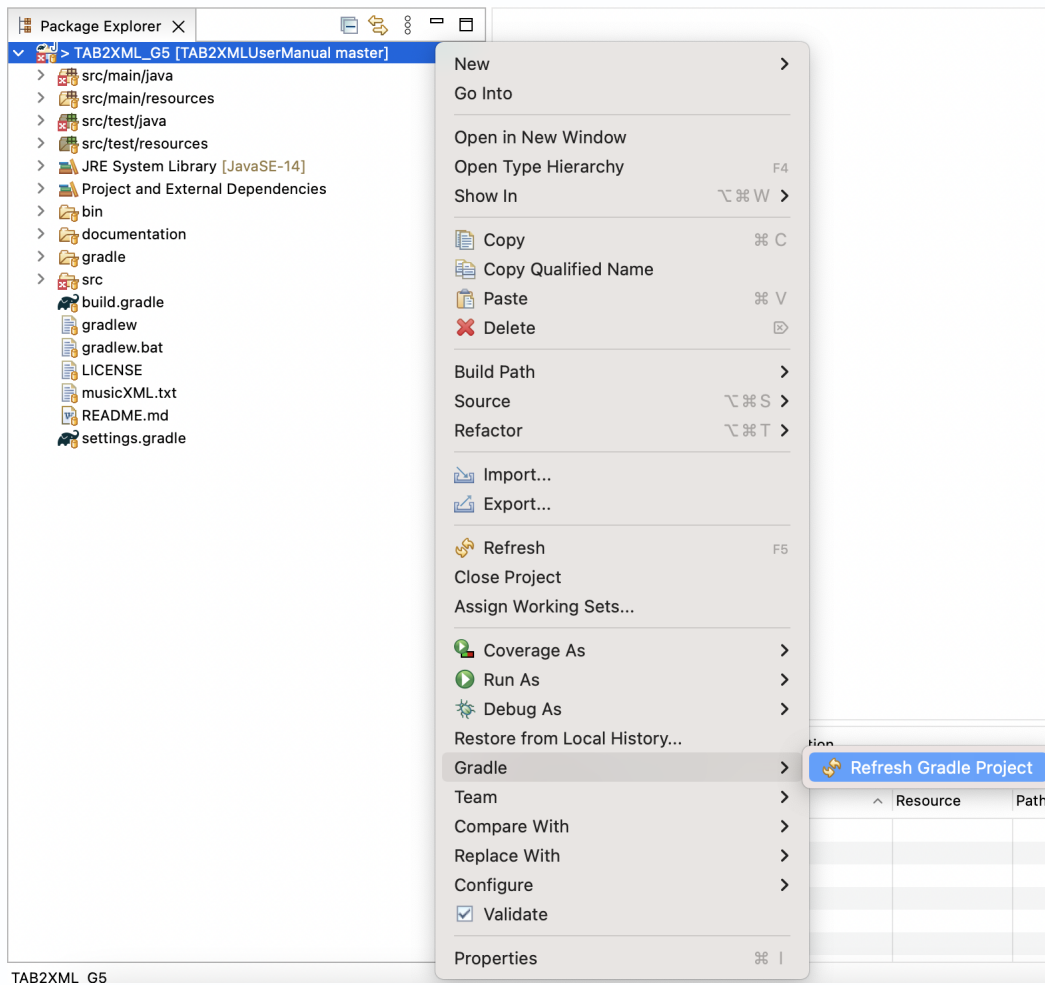
5. Choose the location you want the program to be stored on your computer then click “Next”.

The screenshot shows the 'Import Projects from Git' dialog box at the 'Local Destination' step. The title bar says 'Import Projects from Git'. Below the title bar, there's a section titled 'Local Destination' with a subtitle 'Configure the local storage location for TAB2XML.' and a Git logo. The dialog is divided into two main sections: 'Destination' and 'Configuration'. In the 'Destination' section, the 'Directory' field is highlighted with a blue border and contains the text '/Users/duaali/git/TAB2XMLUserManual'. To its right is a 'Browse' button. Below 'Directory' are fields for 'Initial branch' (containing 'master') and a checkbox for 'Clone submodules' which is unchecked. The 'Configuration' section has a 'Remote name' field containing 'origin'. At the bottom, there are buttons: a help icon (?), '< Back', 'Next >' (highlighted in blue), 'Cancel', and 'Finish'.

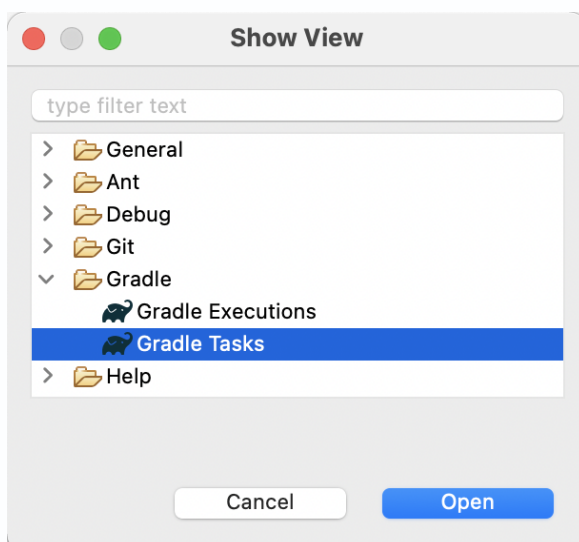
- Set the Gradle version to 7.3.3 and the Java home path to your JDK directory. To find the Gradle preferences, click Preferences > Gradle. Select “Specific Gradle version” then 7.3.3.



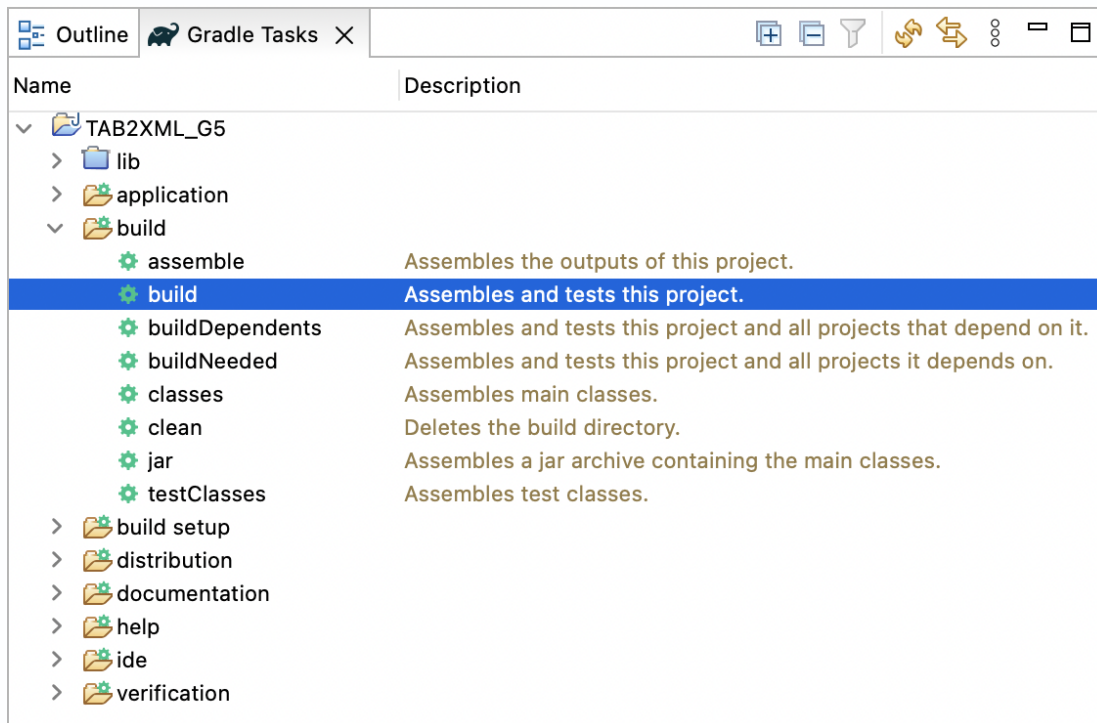
- Refresh the Gradle project. If you don't know how, right-click the project then press Gradle > Refresh Gradle Project.



8. Display the Gradle Tasks window. If you can't find it, press Window > Show View > Other > Gradle > Gradle Tasks, then click "Open".



9. Press the “build” folder and double-click the green “build” to run Gradle build.



3.2 Command Line Interface

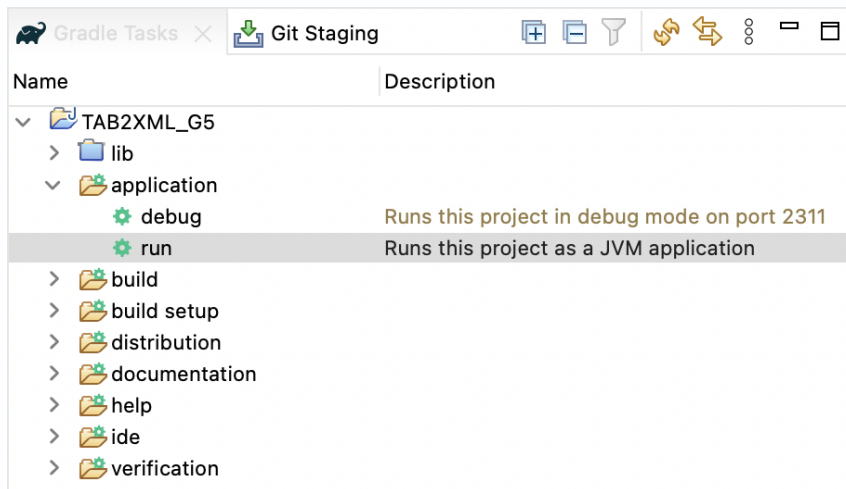
1. Clone the repository to the directory of your choice. To create a new directory use **mkdir <directory>**. Then use **git clone https://github.com/michelle-salt/TAB2XML**
2. Change directory to where the project was installed then use **./gradlew build** to build the project.

Warning: If permission to build was denied, make sure the **./gradlew** is an executable. To change the file permission access of the **./gradlew** file use **chmod +x ./gradlew**

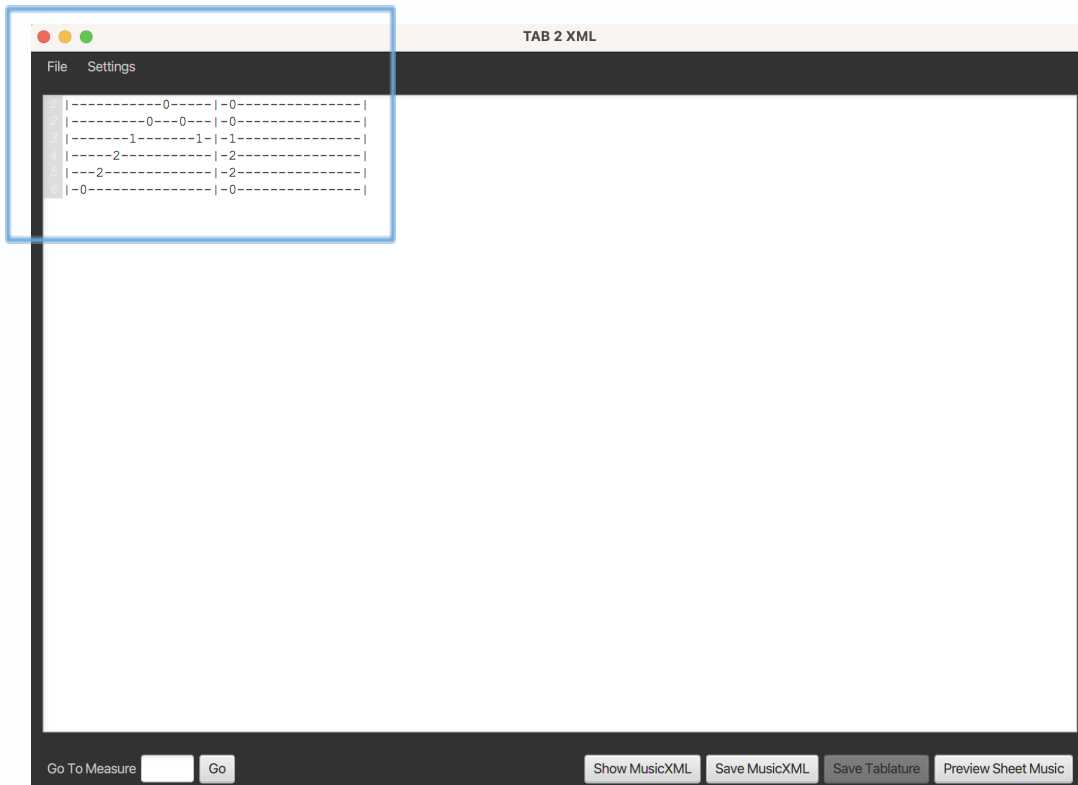
4 How to Use TAB2XML

4.1 Insert Tablature

1. To run the application in Eclipse, double-click the green “run” item in the Gradle Tasks panel under the Application. To run the application directly from the command line, use the command **./gradlew run** in the program directory.



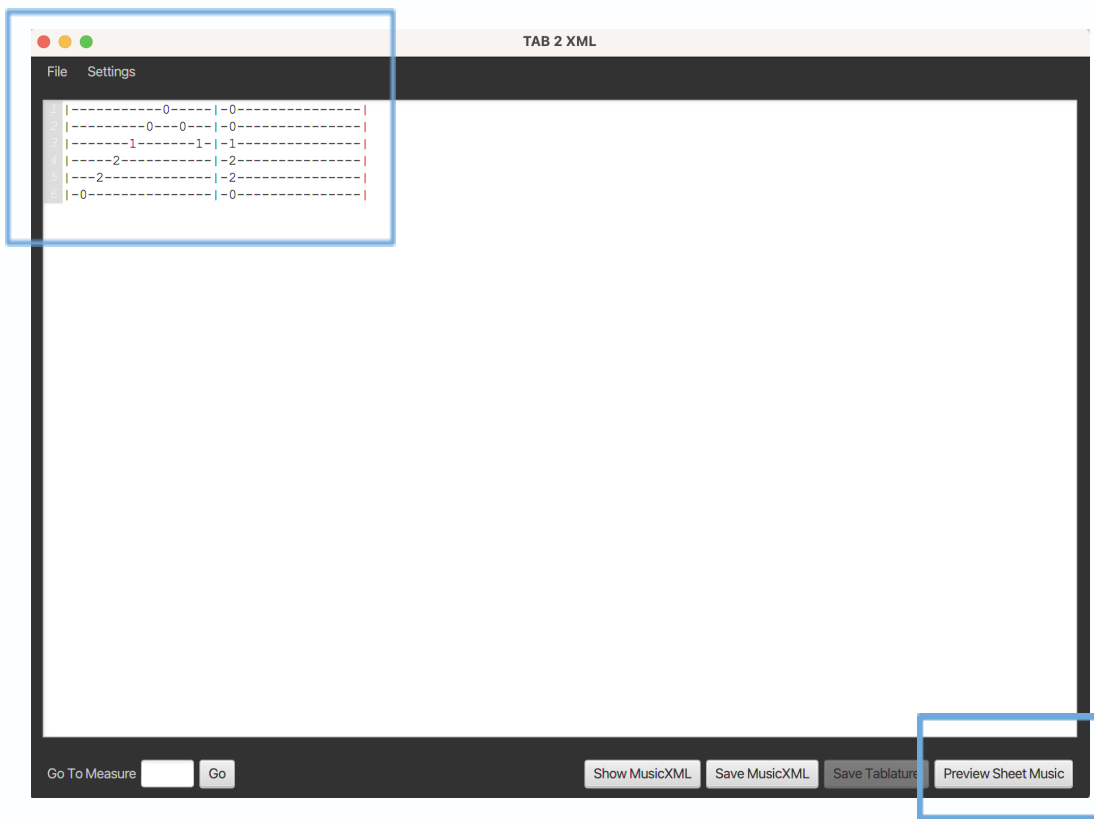
2. Input your text tab into the application. You can type or copy-paste your text tab into the text box.



Warning: If your input tab has errors, there will be yellow highlights on the text that contains the error.

4.2 Convert Tablature to Sheet Music

1. Input your text tablature into your application
2. Press the “Preview Sheet Music” button. A new window will pop-up with the corresponding sheet music.



4.3 Print Sheet Music

1. Press the “Preview Sheet Music” button and a new-window will open.

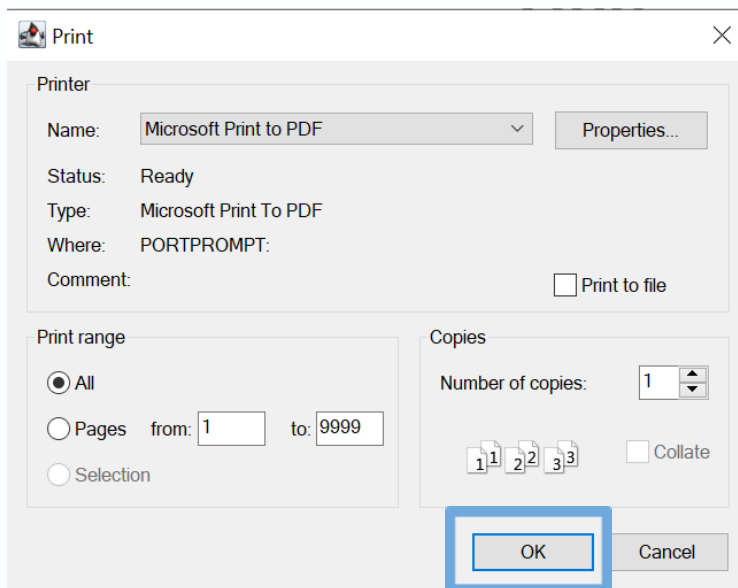
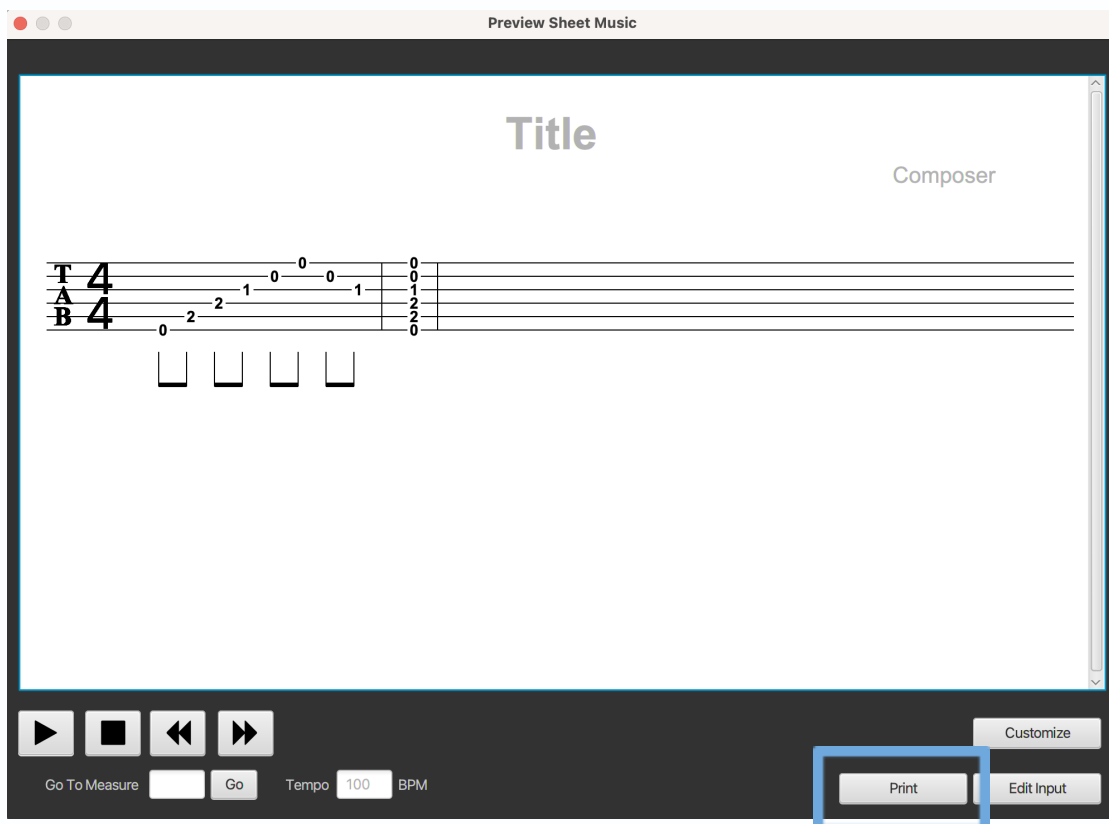


Figure 4.3.2.2 This is the Print dialogue for Windows

4.4 Save Sheet Music

1. Press the “Preview Sheet Music” button and a new-window will open.
2. Press the “Print” button at the bottom right of the pop-up



- Expand the drop-down menu at the bottom-left and click on “Save as PDF”. A new window will open.

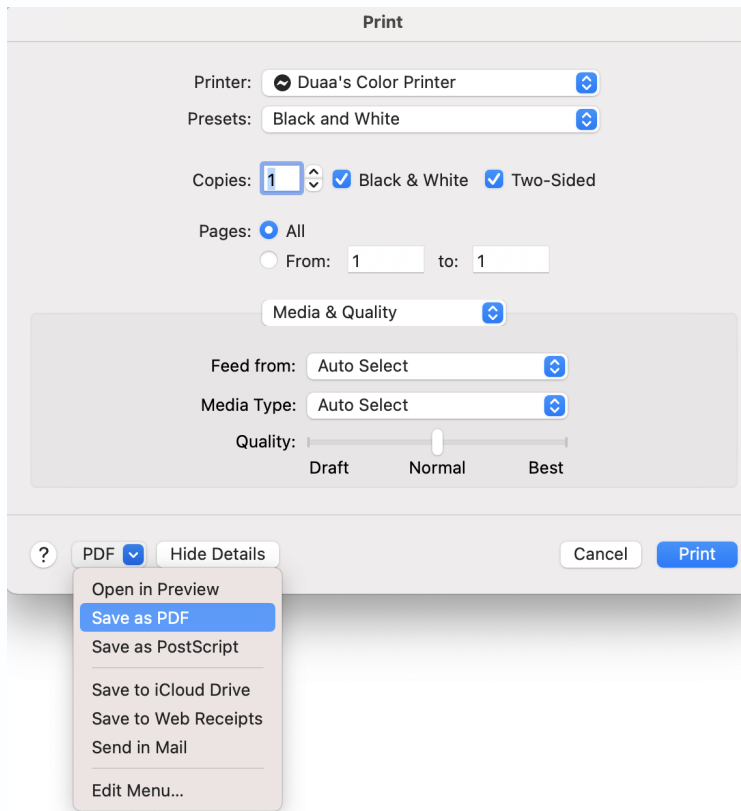


Figure 4.4.3.1: This is the where the save option can be found on macOS

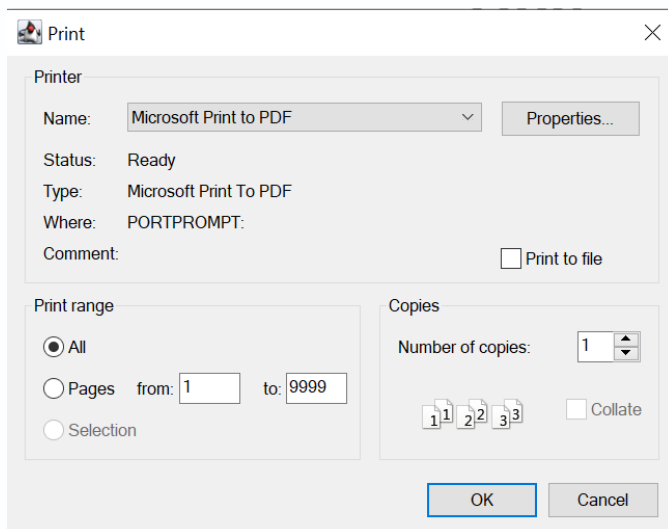
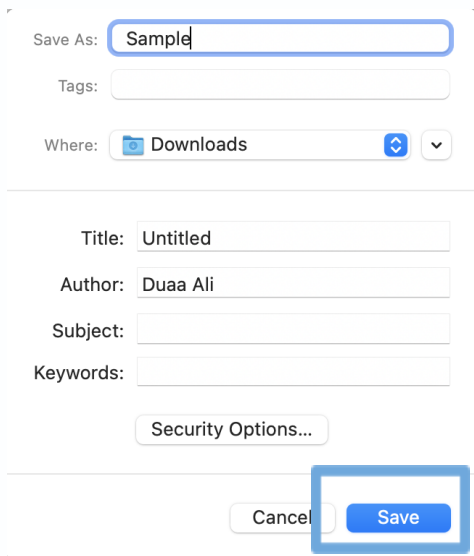


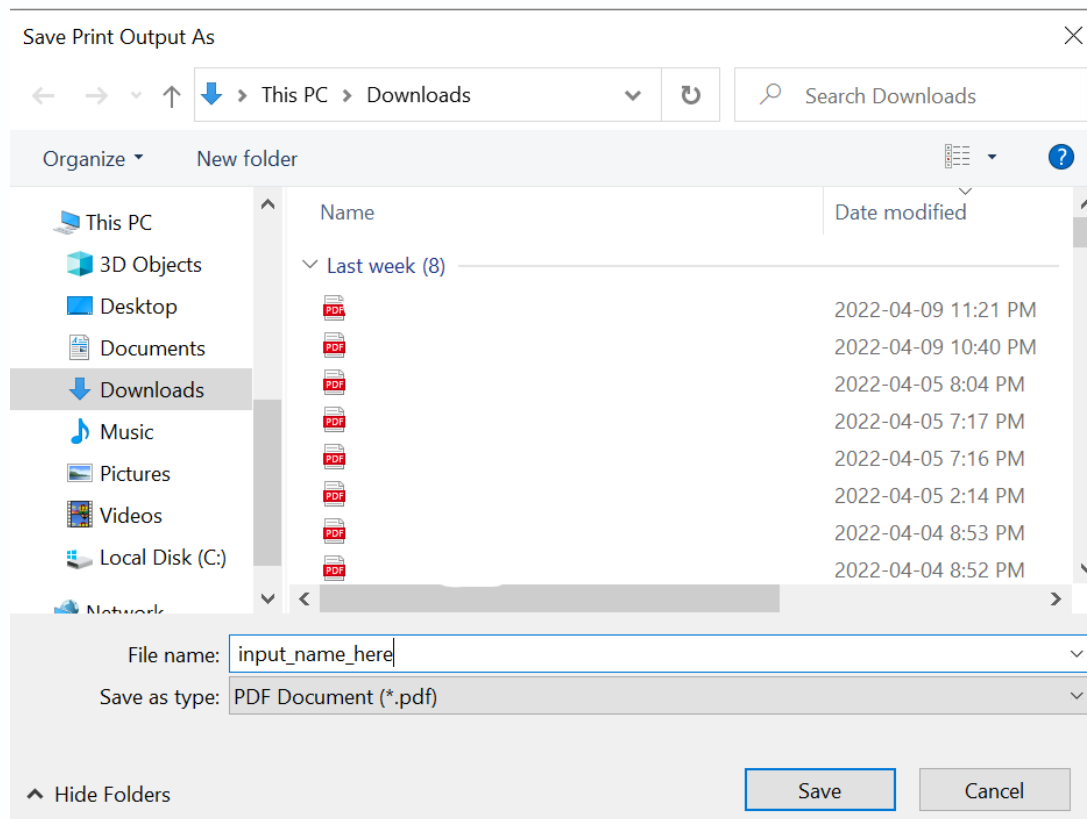
Figure 4.4.3.2: This is the where the save option can be found on Windows

4. Enter a title for PDF and choose your location. Once ready, press “Save” to save the Sheet Music as a PDF to your device!



The image shows a macOS 'Save As' dialog box. At the top, the 'Save As:' field contains the text 'Sample'. Below it is a 'Tags:' field. The 'Where:' section shows 'Downloads' as the selected location. Further down, there are fields for 'Title:' (containing 'Untitled'), 'Author:' (containing 'Duaa Ali'), 'Subject:', and 'Keywords:'. A 'Security Options...' button is located below these fields. At the bottom, there are 'Cancel' and 'Save' buttons, with the 'Save' button highlighted by a blue rectangular box.

Figure 4.4.4.1: This is the save pop-up for macOS



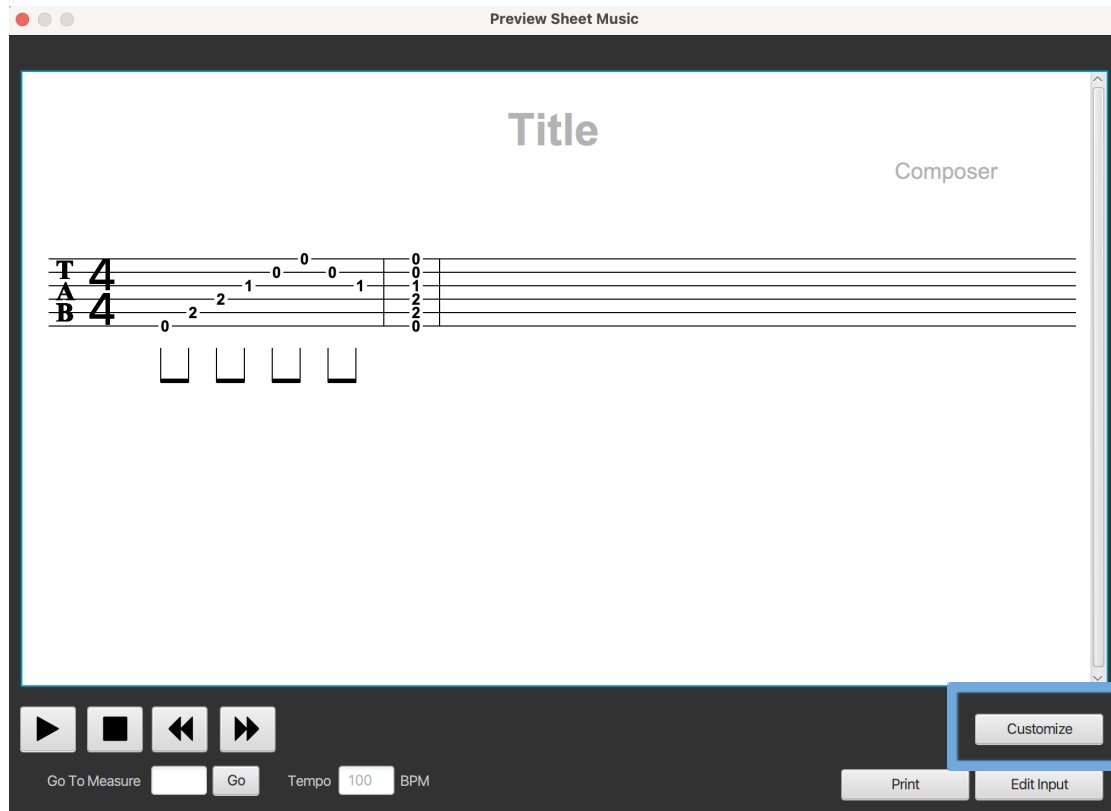
The image shows a Windows 'Save Print Output As' dialog box. The title bar reads 'Save Print Output As'. The address bar shows the path 'This PC > Downloads'. The left sidebar lists various locations, with 'Downloads' selected. The main area displays a list of files with columns for 'Name' and 'Date modified'. Below the file list, the 'File name:' field contains 'input_name_here' and the 'Save as type:' dropdown is set to 'PDF Document (*.pdf)'. At the bottom, there are 'Save' and 'Cancel' buttons, with the 'Save' button highlighted by a blue rectangular box.

Name	Date modified
Last week (8)	
PDF	2022-04-09 11:21 PM
PDF	2022-04-09 10:40 PM
PDF	2022-04-05 8:04 PM
PDF	2022-04-05 7:17 PM
PDF	2022-04-05 7:16 PM
PDF	2022-04-05 2:14 PM
PDF	2022-04-04 8:53 PM
PDF	2022-04-04 8:52 PM

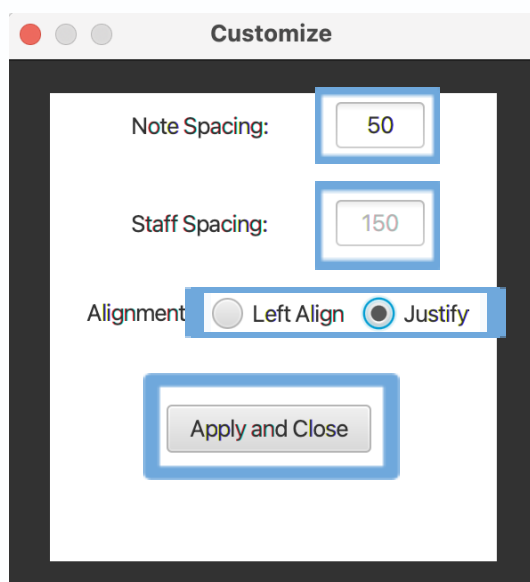
Figure 4.4.4.2: This is the save pop-up for Windows

4.5 Customise Sheet Music Elements

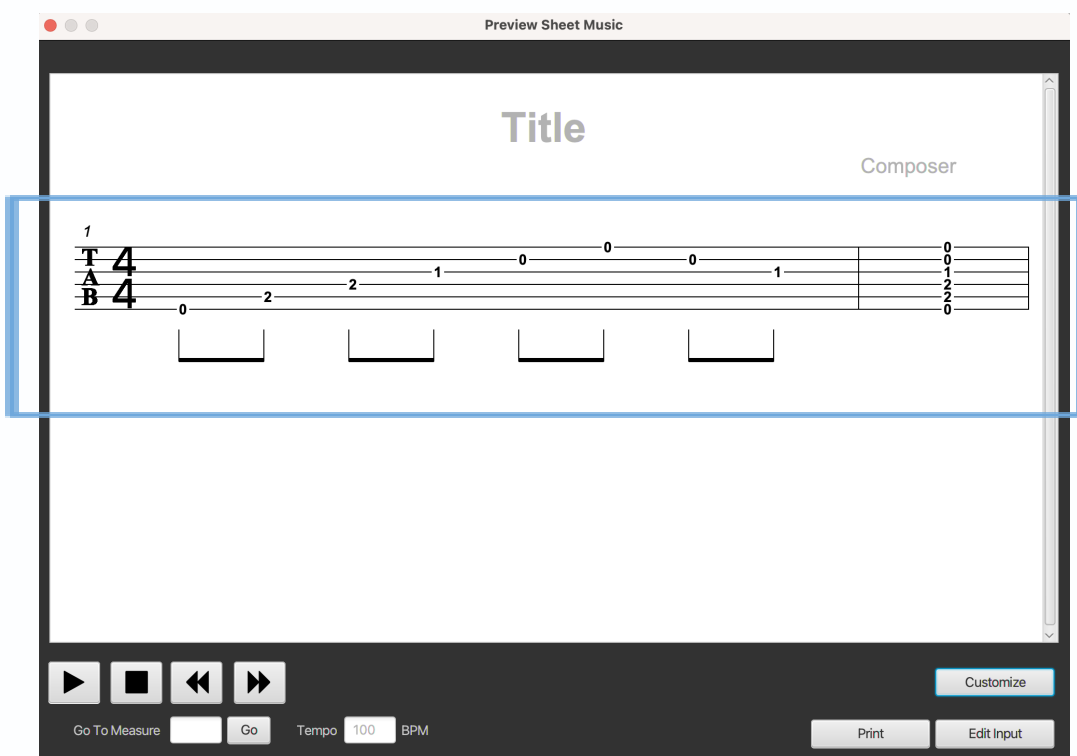
1. Press the “Preview Sheet Music” button and a new window will open.
2. Now press the “Customize” button another, smaller window will open.



3. Fill out the textboxes as preferred and select “Apply and Close”.

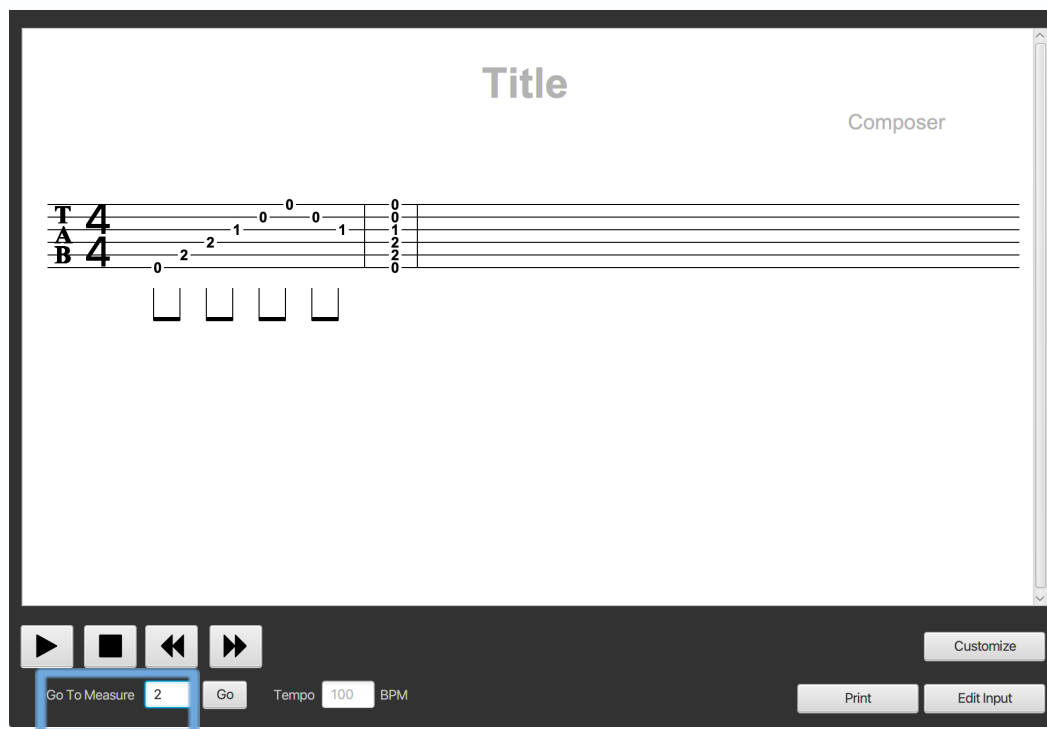


4. The original preview window will update automatically to match your preferences.

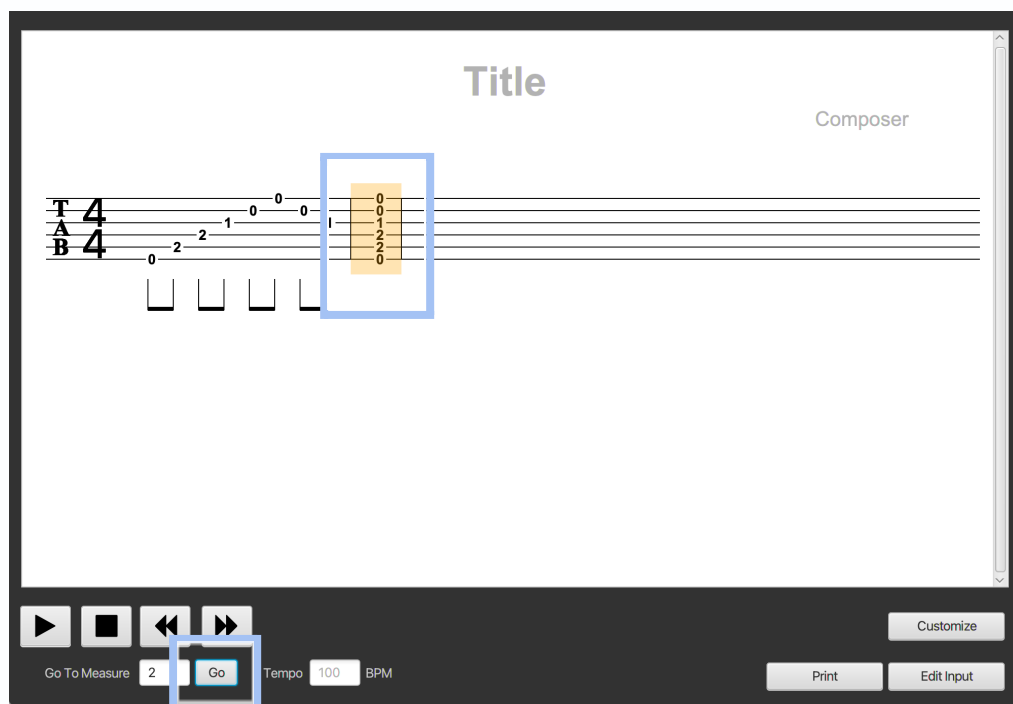


4.6 Go-to Measure

1. Press the “Preview Sheet Music” button and a new window will open.
2. In the “Go To Measure” field, enter a measure number

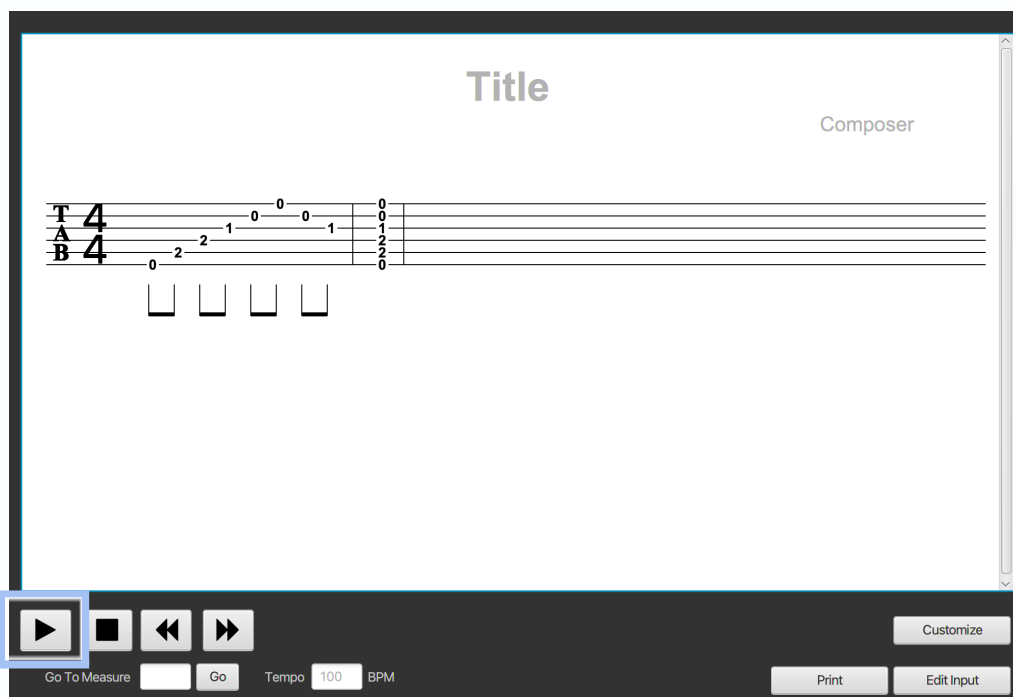


3. Click “Go” to navigate to the corresponding measure.



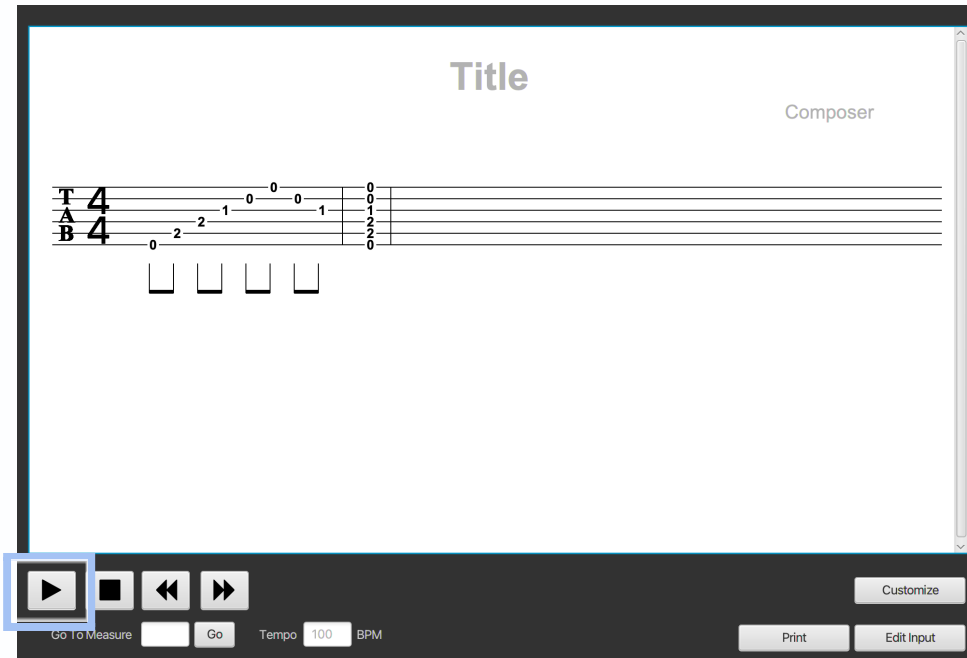
4.7 Play Music

1. Press the “Preview Sheet Music” button and a new window will open.
2. Click the “Play” icon to play a song.

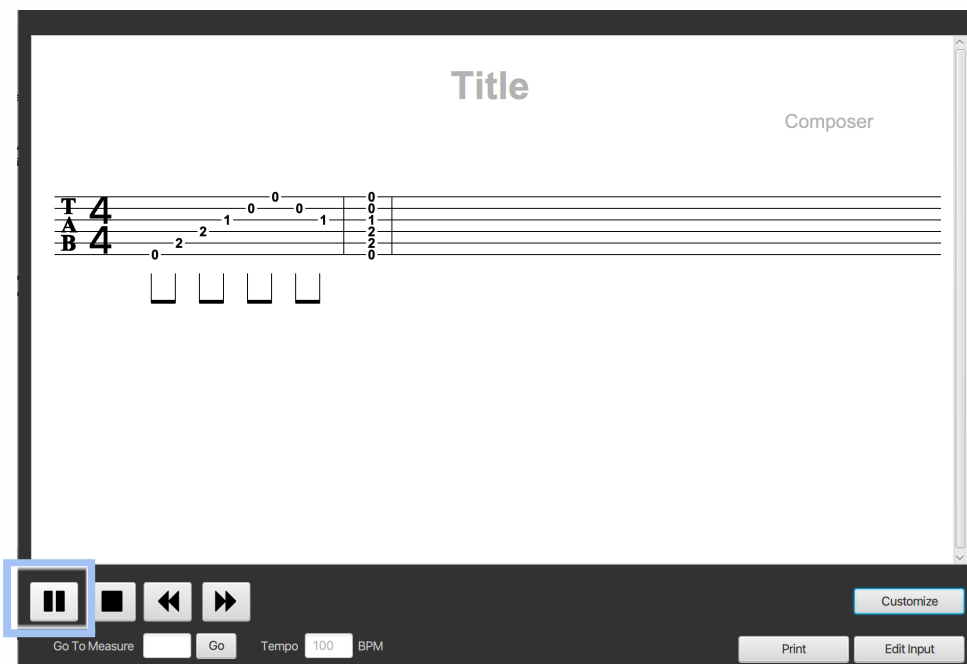


4.8 Pause Music

1. Press the “Preview Sheet Music” button and a new window will open.
2. Click the “Play” icon to play a song.



3. The icon will automatically change to a “Pause” button once the music plays.
4. Press the “Pause” button to pause the music.



4.9 Stop Music

1. Press the “Preview Sheet Music” button and a new window will open.
2. Click the “Play” icon to play a song.
3. Click the “Stop” icon to stop playing the song.



Warning: This will reset the music to the beginning! If you'd like to resume from where you stop, press the “pause” icon, instead! Refer to section 4.8 if assistance is needed.

4.10 Fast-Forward Music

1. Press the “Preview Sheet Music” button and a new window will open.
2. Click the “Play” icon to play a song.
3. Click the “Fast-forward” icon to move the music playback ahead.



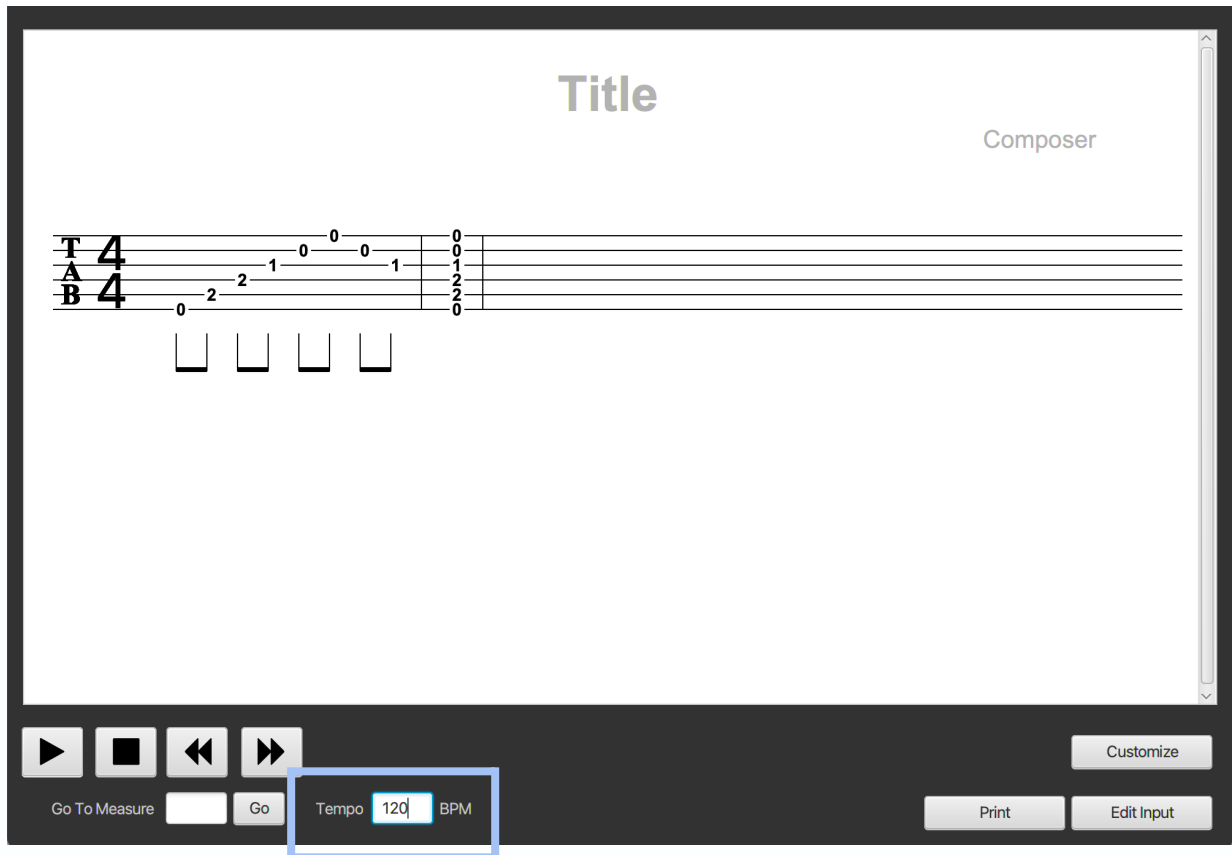
4.11 Rewind Music

1. Press the “Preview Sheet Music” button and a new window will open.
2. Click the “Play” icon to play a song.
3. Click the “Fast-forward” icon to move the music playback ahead.



4.12 Change Tempo

1. Press the “Preview Sheet Music” button and a new window will open.
2. In the “Tempo” field, enter the tempo you’d like to play the music at.



3. Click the “Play” icon to play the song at that tempo.



Warning: The tempo will only change once the music is reset, so make sure to click stop (see section 4.9) before clicking play if you have already begun playback.