

Using Audacity for Audio-Text Synchronization



Scripture App Builder: Using Audacity for Audio-Text Synchronization

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You are free to print this manual for personal use and for training workshops.

The latest version is available at http://software.sil.org/scriptureappbuilder/resources/

and on the Help menu of Scripture App Builder.

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1. Introduction

To add audio-text synchronization to apps built with Scripture App Builder, you need to create a **timing file** to go alongside each audio MP3 file. The timing files provide the information the app needs to highlight phrases in the text as the audio is playing.

You can choose between three different methods to create the timing files:

- 1. **Audacity**: listen to an audio file in the Audacity audio editor and lay down a labels track, placing a label at the start of each phrase.
- 2. **aeneas**: an automated method of synchronizing text and audio.
- 3. **HearThis**: record the audio line by line using HearThis and export timing files at the same time as producing the MP3 files

This document takes you through the first of these methods: using Audacity to create the timing files. Instructions on the other two methods can be found in the user manuals Using HearThis for Audio Recording and Using aeneas for Audio-Text Synchronization.

PLEASE NOTE:

Many users of Scripture App Builder are finding that **aeneas** is providing very accurate synchronization results, so we do recommend you try it out. Synchronising the text and audio of a whole New Testament could take you a month using Audacity, but less than an hour using aeneas!

One timing file for each audio file

To synchronize audio and text in your app, you will need:

- one MP3 audio file and one timing file per chapter, or
- one MP3 audio file and one timing file per picture story book.

For example, if you have a book 'Matthew' with 28 chapters, you will need 28 audio files and 28 timing files. If you have a picture story book with 8 pages, you need a single audio file which covers all 8 pages together with a single timing file.

Example: if you have an audio file for Matthew chapter 1, MAT_01.mp3, you need to create a corresponding timing file, e.g. MAT_01.txt.

Note: If you have several audio files per chapter or several chapters in one audio file, you will need to concatenate or split your files to create files of one chapter each before creating the timing files. This could be done in Audacity.

Timing levels

You can choose the level at which the text is highlighted:

- verse by verse, or
- phrase by phrase.

There is also the possibility of splitting a phrase into smaller units.

Verse by verse highlighting will highlight a complete verse at once: from the current verse number up to just before the next verse number.

8.252945	8.252945	1
16.401422	16.401422	2
27.235258	27.235258	3
33.809408	33.809408	4-5
66.545898	66.545898	6
74.952265	74.952265	7
96.749997	96.749997	8
111.571459	111.571459	9
127.398309	127.398309	10
130.636807	130.636807	11
149.545453	149.545453	12
157.938255	157.938255	13
172.479752	172.479752	14
190.809003	190.809003	15
206.453448	206.453448	16
217.292729	217.292729	17
229.985550	229.985550	18

A verse-by-verse timing file will look like this:

The first and second columns indicate the time in seconds. The third column contains the verse number.

Phrase by phrase highlighting will highlight phrases within a verse. Phrases can be between punctuation marks, e.g. up to the next "." or ",". You can define the set of punctuation characters that mark the end of a phrase. Individual poetic lines can also be highlighted one by one, for example in a psalm or a song.

A phrase-by-phrase timing file will look like this:

3.188682	3.188682	1a	
7.415084	7.415084	1b	
12.934091	12.934091	1c	
16.746603	16.746603	2a	
19.829615	19.829615	2b	
20.905796	20.905796	2c	
21.884018	21.884018	3a	
22.858863	22.858863	3b	
25.613723	25.613723	4a	
27.108508	27.108508	4b	
30.192832	30.192832	4c	
31.388587	31.388587	4d	
32.683989	32.683989	5a	
31.388587	31.388587	4d	
32.683989	32.683989	5a	
36.440027	36.440027	5b	
38.297624	38.297624	5c	

or like this:

3.188682	3.188682	1	
7.415084	7.415084		
12.934091	12.934091		
16.746603	16.746603	2	
19.829615	19.829615		
20.905796	20.905796		
21.884018	21.884018	3	
22.858863	22.858863		
25.613723	25.613723	4	
27.108508	27.108508		
30.192832	30.192832		
31.388587	31.388587		
32.683989	32.683989	5	
36.440027	36.440027		
38.297624	38.297624		

As in verse-by-verse timing files, the number represents the verse. The lines without verse numbers represent the mid-verse phrase breaks.

In early versions of Scripture App Builder, it was necessary to specify phrases using 1a, 1b, 1c (the first, second and third phrases in verse 1). But now it is sufficient to leave the timing label blank between verses and SAB will fill in the a, b, c when it reads in the file.

Word level highlighting: If you want to split a phrase after one or more words, you can use word-level highlighting for that phrase. For this, the labels in the timing files should contain an underscore and then the index of the word, e.g.

- 1_4 starts at the 4th word of verse 1
- **2a_5** starts at the 5th word of phrase 2a
- 2a_9 starts at the 9th word of phrase 2a

3.188682	3.188682	1
7.415084	7.415084	1_4
12.934091	12.934091	1 11
16.746603	16.746603	2a
17.356305	17.356305	2a_5
18.853311	18.853311	2a 9
19.829615	19.829615	2b
20.905796	20.905796	2c
21.884018	21.884018	3
22.858863	22.858863	
25.613723	25.613723	4a
27.108508	27.108508	4b
28.839213	28.839213	4b 6
29.158316	29.158316	4b_10
30.192832	30.192832	4 c
31.388587	31.388587	4 d
32.683989	32.683989	5
36.440027	36.440027	
38.297624	38.297624	

A timing file with word-level phrase breaks might look like the following example:

2. Getting Started

2.1. Phrase Lists

To help you identify when to mark a timing break, we recommend you create *Phrase Lists*. These will arrange the phrases line by line for you.

To create phrase lists for each of the chapters in your app:

- 1. Launch Scripture App Builder.
- 2. Navigate to the **Book Collection** page for your app.
- 3. Go to the Audio Synchronization tab.
- 4. Click on **Create Phrase Lists** and follow the instructions in the wizard.

A set of Word documents (.docx), comma-separated files (.csv) or tab-separated files will be created, one for each chapter.

A phrase list document looks like the following:

(Ma	atthew 2)
1	Isa hayandi Betelehem,
	Žude gandaa ra,
	kokoyoo kaŋ se i ga nee Herod zamanoo ra.
	Handaray bayraykoyniyaŋ ne ka hun waynahunay ka kaa Žerizalem,
2	i nee:
	«Man Alyahuudey kokoyoo kaŋ hayandi?
	Ir dii nga handaraa waynahunay.
	Ir kaa ka sujud'a se.»
3	Kaŋ kokoyoo Herod maa woo,
	a zalba,
	de Žerizalem kul zalb'a bande.
4	A na jamaa sargari juwalkey jineborey nda Citaaboo baykey marga hala i ma nga bayrandi nongoo kaŋ ra Almasihu ga hima ka hayandi.
5	I nee a se:
	«Betelehem kaŋ goo Žude,
	zama hayaa ne kaŋ annaboo n'a hantum:

Each row in the phrase list document represents a separate timing phrase which will need to be marked.

You can define which characters are recognised as phrase ending characters in the **Features** \geq **Audio** page of Scripture App Builder. By default, it is: a full stop/period (.), a question mark (?), an exclamation mark (!), a colon (:) and a comma (,).

2.2. Installing Audacity

Install the **Audacity** sound-editing program if you do not already have it. Please see **Appendix: How to install Audacity**.



3. Producing Timing Files

- 1. Launch Audacity.
- 2. Open the MP3 file using **File > Open** on the main menu.
- 3. If the file is stereo with two tracks, it can be helpful to reduce it to mono for this process so it doesn't take up so much room on your screen. Do this with **Tracks** Stereo Track to Mono.
- 4. Zoom in a couple of times so it is easier to see the gaps between the audio waveforms.



5. Have the Scripture text or Phrase List open to the chapter you will be listening to.

You could display the text in a different window (i.e. have Audacity take up the left part of the screen and the Scripture text on the right, or have the screens arranged at the top and bottom of the screen), but this can be awkward since you will need to scroll the text from time to time and then click in the Audacity window to give it focus again. While you are doing this you might lose your place and miss a verse break. What can work better is if you have a printed text in front of you or if the text is already on a smartphone or tablet. Then you can concentrate more fully on the text and avoid the complication of switching between windows.

6. Move the cursor to just before the beginning of the first verse (i.e. after any titles or chapter headings).

7. Place the first label marker using **CTRL-B**. A label track will be created.



If you are using a Mac, the shortcut to use is **Command B**.

8. Type the number "1" in this first label. This indicates that "verse 1 starts here".

The cursor should already be in the label, so you just need to press the "1" key after pressing CTRL+B above.

9. Press 'Play' to start listening to the audio. As you listen, place a label at each timing break (phrase or verse level) using **CTRL-M**.

You don't really need to look at Audacity for this. Just follow the text closely and keep pressing CTRL-M at the verse breaks.

If you are using a Mac, the shortcut to use is Command . – that is Command and period (.) together.

	Windows	Мас
Add Label At Selection (at cursor position when paused)	CTRL-B	Command B
Add Label At Playback Position (at current position when playing audio)	CTRL-M	Command .

Default key mappings for adding labels

Usability Tip: Instead of pressing two keys together (CTRL-M) to add a label, it is easier if you reassign the key binding to be a single key, such as F1. See Section 4: Usability Tips for more details on how to do this.

10. When you get to the start of a new verse, type the verse number into the label while the audio is still playing.

If you are quick, you'll find there is no need to stop the audio for this. The cursor is in the new label already so all you have to do is type the numbers. If you miss typing a verse number, you can always come back to it at the end.



If you lose your way, stop playback, move back a few seconds and press play again.

To delete a label you have placed by accident, press the **DELETE** key when the label is selected.

- 11. When you have finished placing labels for the whole chapter, go back to each label :
 - i. Move it slightly if you missed the middle of the blank section between verses. Do this by dragging the circle in the middle of the marker.
 - ii. Type verse numbers into the labels that come at the start of verses (if you didn't do this earlier):
 - "1" for the label before the first verse,
 - "2" for the label before the second verse,
 - "6-7" for bridged verses, etc.



Another way of adding label captions is via **Tracks** \geq **Edit Labels...** This is an easier way to add verse numbers quickly. You can also delete unwanted labels here.

Edit Labels					×		
Press F2 or dou	Press F2 or double click to edit cell contents.						
	Track	Label	Start Time	End Time	Â		
1	1 - Label Track	1	00 h 00 m 08.250 s	00 h 00 m 08.250 s	=		
2	1 - Label Track	2	00 h 00 m 27.072 s	00 h 00 m 27.072 s			
3	1 - Label Track	3	00 h 00 m 51.403 s	00 h 00 m 51.403 s			
4	1 - Label Track		00 h 01 m 19.643 s	00 h 01 m 19.643 s			
5	1 - Label Track		00 h 02 m 07.476 s	00 h 02 m 07.476 s	-		
Insert A	After	Insert Before	Remove Impo		incel		

During this process you will be able to see if you have missed out a verse somewhere or if you have added an unwanted marker that needs to be deleted.

12. Export the label track to a text file using **File** ➤ **Export Labels...** Choose a name such as LANG-GEN-01.txt (for Genesis chapter 1), LANG-GEN-02.txt (for Genesis chapter 2), etc., where LANG is the name of the language.

13. Open the timing file in a text editor such as Notepad. You should see something like this:

3.188682 7.415084 12.934091	3.188682 7.415084 12.934091	1	
12.934091 16.746603 19.829615	16.746603 19.829615	2	
20.905796 21.884018	20.905796 21.884018	3	
22.858863 25.613723 27.108508	22.858863 25.613723 27.108508	4	
30.192832	30.192832 31.388587		
32.683989 36.440027	32.683989 36.440027	5	
38.297624	38.297624		

14. The three columns are *From, To* and *Label*. Make sure all the verse numbers are present. If you have missed out a verse number somewhere, fix it in the text file or within Audacity and export again.

The timing file is now ready to be used in an app.

4. Timing Labels Assistant

If you are using Audacity in Windows, there is a helpful utility program that will make marking labels significantly easier. It is called **Timing Labels Assistant (TLA)**.

TLA is built with <u>AutoHotKey</u> to simulate keystrokes in Windows. It allows you to specify a phrases file and will insert the label name (1a, 2b, etc.) for you automatically when you press the key to add the next label.

You can find it here: <u>https://github.com/indiamcq/timing-labels-assistant</u>

Download the zip file, **Timing-Labels-Assistant_v1.2.29.zip** (or a later version), and unzip it to a writable folder on your computer (i.e. not in Program Files). The main TLA executable is called **Timing-Labels-Assistant.exe**.

To use TLA:

- Run the Create Phrase Lists wizard within Scripture App Builder to create a set of tab-delimited .phrases files for the book chapters you want to synchronize. That's the 3rd option in the choice of file types.
- 2. Open **Audacity** with the audio file to be synchronised and zoom into the waveform 2-3 times.
- 3. Launch Timing-Labels-Assistant.exe.
- 4. Choose the .phrases file corresponding to the audio file you have open in Audacity. It will be opened for you in Notepad.
- 5. Arrange Notepad to the side of your Audacity window so you can see both.
- 6. Start playing the audio.
- 7. Press the **TAB** key or the + key on the numeric keyboard to place a marker. (This much easier than pressing CTRL+M). The markers will appear in the order they are in the .phrases file.

If markers do not appear when you press TAB or +, check that CTRL+M is still associated with the command **Add Label at Playback Position**. See section 5.2 for more details.

8. You will hear a beep when the list of markers comes to an end.

To restart from a given label:

- Click on the icon in the taskbar and select **Restart timing at label...**.
- Enter the label you want to start from, e.g. 3b.
- Press **OK** and continue from step 6 above.

To exit:

• Click on the icon in the taskbar and select **Exit**.

5. Usability Tips

5.1. Tip #1: Change the keyboard binding for the spacebar

By default, the spacebar is assigned to Play/Stop. This is good, but the problem is that if you stop somewhere and then start again, the playback goes back to the original start position rather than playing from where you stopped.

To modify this:

- 1. Go to Edit ≻ Preferences ≻ Keyboard.
- 2. Select the line **Play/Stop and Set Cursor**. To find this quickly, type 'play/stop' into the Search field at the top.

You are looking for the line that ends with '...and Set Cursor' rather than simply 'Play/Stop'.

Preferences: Keyboar	rd	×
Devices	Key Bindings	
Playback	View by: <u>Tree</u> <u>Name</u> <u>Key</u> Search: play/stop	
····Recording ····Quality	Play/Stop Space	
- Interface	Play/Stop and Set Cursor Shift+A	
Tracks		
···· Import / Export		
Extended Import		
Projects		
Libraries		
···· Spectrograms ···· Directories		
···· Warnings		
Effects		
···· Keyboard		
Mouse	Shift+A Set Clear	r
Modules	Import Export Defaults	
	OK	Cancel

- 3. Change the key binding for this line to Space (rather than Shift+A).
- 4. Press Set.

5. You will be asked if you want to make the change. Click **OK** to do this.



6. Click **OK** to save the changes to the Preferences.

5.2. Tip #2: Change the keyboard binding for adding a label

Instead of pressing two keys together (**CTRL-M**) to add a label, it is easier if you reassign the key binding to be a single key, such as **F1**. Then you have one hand free to type the labels.

<u>NOTE</u>: This tip is only useful if you are <u>not</u> using *Timing Labels Assistant (TLA)*. If you are using TLA, you need to keep CTRL-M as the key combination to add a label.

To change the keyboard binding for adding a label:

- 1. Go to Edit ➤ Preferences ➤ Keyboard.
- 2. Select the line **Add Label at Playback Position**. To find this quickly, type 'add label' into the Search field at the top.

Preferences: Keyboar	d		Х
Devices Playback	Key Bindings View by: 〇 <u>T</u> ree	Search: add label	
Recording Quality Interface	Add Label At Playback Position Add Label At Selection	Ctrl+M Ctrl+B	
… Tracks … Import / Export … Extended Import … Projects			
Libraries Spectrograms Directories			
Warnings Effects Keyboard			
Mouse Modules	Ctrl+M Export Def	Set Cl <u>e</u> ar	
		OK Cancel	

- 3. Type the key you want to use instead of CTRL-M, such as F1.
- 4. Press Set.

Preferences: Keyboar	d	×
: Devices	Key Bindings	
···· Playback ···· Recording	View by: O Iree Name O Key Search: add	label
	Add Label At Playback Position	F1
- Quality	Add Label At Selection	Ctrl+B
Interface		
Tracks		
··· Import / Export		
Extended Import		
Projects		
Libraries		
Spectrograms		
Directories		
Warnings		
Effects		
Keyboard	F1 Set	Class
Mouse	F1 Set	Cl <u>e</u> ar
···· Modules	Import Export Defaults	
		OK Cancel

5. If the keyboard shortcut you have chosen is already in use for another function, you will be asked if you want to make the change. Click **OK** to do this.



6. Click **OK** to save the changes to the Preferences.

6. FAQ

6.1. How can I change the punctuation characters which are recognised as 'end of phrase' marks?

You can define which characters are recognised as phrase ending characters in the **Features** *≻* **Audio** page of Scripture App Builder.

You can add Unicode characters here using the format \uABCD where ABCD is the hexadecimal Unicode code point, e.g. \u061F for an Arabic question mark, \u1362 for an Ethiopic full stop.

6.2. How can I get the app to highlight text in chapters without any verse numbers?

If you have a non-Scripture text such as a song book or another kind of reading book, you will not normally have verse numbers. To highlight phrases and lines, label the first phrase or line as "a", the second as "b", the third as "c", etc.

Example:

```
\c 10
\s An Fa Ala, Dubatigi
\q An Fa Ala, Dubatigi,
\q An bɛ barika da i ye,
\q Ka i tanu, ka i bato,
\q I ka kan ni bonya ye.
\b
\q2 Kuma duman kɛ ne da la,
\q2 Ka ne Kisibaa ko fɔ.
\q2 Aleluya! Aleluya!
\q2 Yesu ye ne kunmabɔ.
```

In this song, label the audio as follows:

•	An Fa Ala, Dubatigi,	(labelled as "a")
•	An be barika da i ye,	(labelled as "b")
•	Ka i tanu, ka i bato,	(labelled as "c")
•	I ka kan ni bonya ye.	(labelled as "d")
•	Kuma duman kɛ ne da la,	(labelled as "e")
٠	Ka ne Kisibaa ko fɔ.	(labelled as "f")
•	Aleluya!	(labelled as "g")
•	Aleluya!	(labelled as "h")
•	Vogu vo no kunmoho	(labelled as "i")

• Yesu ye ne kunmabo. (labelled as "i")

Note that the "Aleluya! Aleluya!" line is split in two because of the phrase-ending exclamation mark in the middle.

For a longer chapter, you will soon run out of letters of the alphabet. When you get to "z", the next label you need to use is "aa", then "ab", "ac", "ad", etc. When you get to "az", the next label you need to use is "ba", then "bb", "bc", "bd", etc. In other words, this follows a similar naming convention to the column names in a spreadsheet.

6.3. Can I get the app to split on commas for some verses and not others?

You might want to use phrase level highlighting to split up some of the verses and most of the time might be sufficient to split on full stops/periods, question marks and exclamation marks. But in a few verses it would be good if the app can split on commas.

For those verses where you would like the app to split on commas, simply add a comma at the end of the first phrase level label for the verse, e.g. "3," or "6," etc. The app will then split that specific verse by commas as well as the other phrase-ending characters you have defined.

Example:

\v 1 Yesu ya se Zhude fiige ki ni, Betilehemu ni, saannaa Herodi cana nii ni. Wu nizexhogo ki na, a woroo cevee pii di ba na yìri Kile-noho na, na no Zheruzalemu ni. \v 2 A p'i yegene pye na: «Yawutuu wo saan we w'a se nime ge, mii wu wa we? Wèe ya wu woro na, na wèe yaha Kile-noho ke na, na ba di ba wu pele.»

In this chapter, verse 1 can be split into two sections, split by the "." in the middle:

- Yesu ya se Zhude fiige ki ni, Betilehemu ni, saannaa Herodi caŋa pii ni.
- Wu nizexhogo ki na, a woroo cevee pii di ba na yìri Kile-noho na, na no Zheruzalemu ni.

Or, alternatively, it can be split into six sections, split by both "." and ",":

- Yesu ya se Zhude fiige ki ni, (labelled as "1,") notice the comma after 1a here
- Betilehemu ni,
- saannaa Herodi caŋa pii ni.
- Wu nizexhogo ki na,
- a woroo cevee pii di ba na yìri Kile-noho na,
- na no Zheruzalemu ni.

Unless the comma has been added to the normal phrase-ending characters in **Features** \geq **Audio**, verse 2 will revert to being treated as a whole (labelled as "2") or split into three with the normal characters. It can be split into six sections if you begin with the label "2,".

6.4. How can I get it to highlight section headings?

In some audio files, the section headings are read out by the narrator as well as the verses. To include them in the highlighting, use labels 's1', 's2', 's3', etc., where 's1' is the first section heading, 's2' is the second section heading and so on.

Note that the 's' is lower-case and there is no space between the 's' and the number.

Use this same method for other types of headings, e.g. use 'd' as the prefix for d headings, 'sp' as the prefix for sp headings, 'is' for is, etc.

For **section headings in picture story books**, add the page number before the label, e.g. 1s1, 1s2, 1s3 for section headings on the first page; 2s1, 2s2, etc. for section headings on the second page.

6.5. How can I define text-audio highlighting for book introductions?

Book introductions do not have verse numbers, so use the procedure outlined in FAQ 2 and 3 above, i.e. using phrase-level highlighting with 'a', 'b', 'c', etc.

Sub headings within introductions are labelled as described in FAQ 4 above, i.e. 'is1', 'is2', etc.

On the Audio tab for books in Scripture App Builder, audio and timing files for introductions need to be marked as Chapter "0".

Edit Audio	×
Chapter 0	
Audio File	
The audio MP3 file for this chapter.	
MYK_MAT_00.mp3	Browse
Timing File The optional timing file for text-audio syncronisation.	
MYK_MAT_00.txt	Browse
	OK Cancel

6.6. There are parts of the audio where I don't want any text highlighted. How can I turn off the highlighting for a few moments between verses?

You might want to turn off text highlighting during musical interludes or sound effects. To do this, you need to give the labels a range, rather than being at a single point.



Here is an example:

In the above timing file:

- Verse 4 highlighting will start at the 4 label and end at the beginning of the 5 label (as normal).
- Verse 5 highlighting will start at the initial point of the 5 label range and continue until the end of the 5 label range.
- Nothing will be highlighted between the end of the 5 label range and the 6 label.
- Verse 6 highlighting will start at the 6 label.

To create a label range, drag the < or > part of the label marker.

6.7. I'd like to give someone else the task of creating timing files. Is there any way of them testing these without needing to know how to build the app?

Yes, if you have chosen Audio Distribution by external folder or download, the MP3 files will be in a folder on the SD card. The app will look for a corresponding timing file in this folder if it doesn't already have a timing file packaged inside the APK.

The timing filename in this case should be same as the mp3 file, but with the **.txt** extension rather than **.mp3**.

So, for example, if you have a file such as **MYK_MAT_01.mp3** in the folder, you can put the file **MYK_MAT_01.txt** in the same place and the app should recognise it.

Using this method, others can work on providing timing files for the app and test them, without needing to rebuild the app. Once the timing files are working, you can rebuild the app and package them inside the apk. They are very small so should not increase the size of the apk significantly.

7. Appendix – How to Install Audacity

1. Download the latest Audacity installation program from the Audacity website:

http://www.audacityteam.org

For version 2.2.0, the filename is **audacity-win-2.2.0.exe**. It is 19 MB in size.

It might be that a newer version than 2.2.0 is available. If so, download this newer version instead.

- 2. Double-click **audacity-win-2.2.0.exe** to start the installation.
- 3. Select English as the language to use :

Select Se	Select Setup Language X		
	Select the language to use during the installation:		
	English		
	OK Cancel		

The Setup Wizard opens:



4. Click Next to continue.

A page of licence information will appear:

😝 Setup - Audacity® — 🗌 🔿	×
Information Please read the following important information before continuing.)
When you are ready to continue with Setup, click Next.	
Audacity® is free, open source software for recording and editing sounds. It is available for Mac OS X, Microsoft Windows, GNU/Linux, and other operating systems. Learn more about Audacity Also check our Wiki and Forum for more information. License: Audacity is free software. You may use it for any personal, commercial or educational purpose, including installing it on as many different computers as you wish. Audacity is licensed under the terms of version 2 of the GNU General Public License (GPL) as published by the Free Software Foundation. The full text of the license is also available when running Audacity, via the Help menu > About Audacity command > GPL License tab.	
< <u>B</u> ack <u>N</u> ext > Cancel	

5. Click Next to continue.

You will see the page **Select Destination Location**:

🔒 Setup - Audacity®	—		×
Select Destination Location Where should Audacity® be installed?			
Setup will install Audacity® into the following folder.			
To continue, click Next. If you would like to select a different folder,	click Br	owse.	
C:\Program Files (x86)\Audacity	E	rowse	
At least 50.9 MB of free disk space is required.			
< <u>B</u> ack <u>N</u> ext	>	Ca	ncel

The suggested location in which to install Audacity is normally fine, so click Next.
 You'll see the Select Additional Tasks page:

🔒 Setup - Audacity®	_		\times
Select Additional Tasks Which additional tasks should be performed?			
Select the additional tasks you would like Setup to perform whil then click Next.	e installing Au	udacity®,	,
Additional icons:			
Create a desktop icon			
Reset Preferences			
< <u>B</u> ack	<u>N</u> ext >	Car	ncel

7. Click **Next** to continue.

You'll then see the Ready to Install page:



8. Click Install to begin the installation.



When the installation is complete, you will see a page of information:

🔒 Setup - Audacity® —		\times
Information Please read the following important information before continuing.		
When you are ready to continue with Setup, click Next.		
Audacity(R): A Free, Cross-Platform Digital Audio Editor WWW: <u>http://audacityteam.org/</u>	^	
We welcome feedback on Audacity, suggestions for new or improved features, bug reports and patches at: feedback@audacityteam.org .		
Personal support with Audacity is not provided by e-mail, but on our Forum: http://audacityteam.org/forum/ .		
Audacity is copyright (c) 1999-2015 by Audacity Team. This copyright notice applies to all documents in the Audacity source code archive, except as otherwise noted (mostly in the lib-src subdirectories).		
	~	
<u>N</u> ext >		

9. Click Next to continue.

🔒 Setup - Audacity®	- 🗆 ×
	Completing the Audacity® Setup Wizard
	Setup has finished installing Audacity® on your computer. The application may be launched by selecting the installed icons.
Andaaity	Click Finish to exit Setup.
Auuacity	Launch Audacity
v	
	< <u>B</u> ack <u>F</u> inish

You will then see the final page of the Setup Wizard:

10. Click **Finish** to close the Setup Wizard and launch Audacity.

Audacity is now ready to use.