



ChapterMaker

User Guide

V1.08

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About ChapterMaker

ChapterMaker is an application to assist in preparing and editing video chapter files. It provides a host of features that allow tremendous flexibility in the way that the files are prepared.

Chapter times and titles are maintained in separate lists that are matched up to provide the final collection for export. Both the times and titles can be imported separately from existing files such as those from ChapterDb (<http://www.chapterdb.org>), or can be developed from scratch. There is even the ability to develop the chapter times list from a text file listing the titles and durations, such as you might copy 'n' paste from websites like Barnes & Noble (<http://www.barnesandnoble.com>). See Appendix 3 for an example.

If you are not importing chapter times from an existing file, they can be entered manually, or every set interval up to a maximum time. Individual times can be added, edited or deleted, or blocks of times can be scaled or shifted. There is also an option to adjust the chapter times to try to match frame boundaries based on a specified frame rate. After every change, the times list is re-sorted chronologically.

Individual chapter titles can be inserted, edited or deleted as required. They can also be re-ordered by dragging and dropping them within the list. There is a utility included to adjust the titles to proper title case, based on some customizable word rules. This can be used at any time.

Once you have the titles matched up to the times as you want them, you can output your list in either standard XML (Extensible Markup Language), OGM (Ogg Media / chapters) or simple text format files. You have the option of including or omitting the chapter times and numbers with the titles, and you can set the language code used for any XML files produced. Simple text files can also include the duration for each chapter.

Note that the number of entries in the output file is based on the number of chapter times in the list. Times with no associated chapter title will be given a default title – either “n/a”, chapter time or “Chapter #” – based on the configuration settings. Chapter titles with no associated time will be ignored.

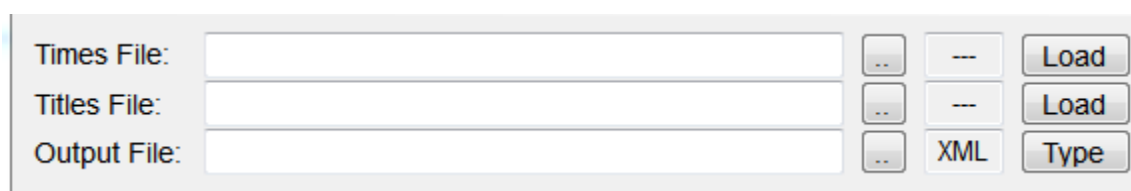
ChapterMaker is a portable application in that it can be installed in any directory and does not use the Windows registry. It requires the .NET Framework 4.0 be installed.


When run, the program tries to read the configuration information from the program directory and, failing that, from the user's “AppData\Roaming\ChapterMaker” directory. If no configuration files are found they will be created automatically.


Input Files

Input files can be used to provide the initial chapter times and/or chapter titles lists. These can be either XML or OGM chapter files, or simple text files. You can also select an existing MKV file for the times or titles, and the information will be automatically extracted. Note that this requires the MKVToolNix command line utilities, and you must set the path in your settings.


If inputting titles from a text file, each title must appear on a separate line. Blank lines are ignored. If importing chapter times from a text file, each chapter's duration must appear at the end of the line in the format "[mm:ss]". Each duration is added to the previous chapter time to yield the current chapter time. Note that inputting chapter times using a text file will produce an extra time entry at the (calculated) end of the video. See Appendix 3 for an example.





An input file can be entered manually or selected in one of three ways: 1) double click the text box to bring up a file selection dialog box; 2) click the associated  button to bring up a file selection dialog box; 3) drag and drop the selected file onto the text box.

Once a file is selected, the program will try to detect the type of file format and automatically load the information from the file. The information can be reloaded at any time by clicking the associated  button. Note that loading information from a file overwrites any previous information in the list.

If the output file textbox is blank, the first time an input file is selected that file's directory will be used as the default directory for the output file.

If you click the  button and there is no associated file specified, you will be given the option of using the other input file – if one has already been selected – for this information.

Output File

Once the chapter information – times and titles – has been entered and adjusted as required, it can be output to a chapter file by clicking the  button. The selected file type is shown on the same line as the file path and name, and can be toggled between XML, OGM and TXT by clicking the  button.

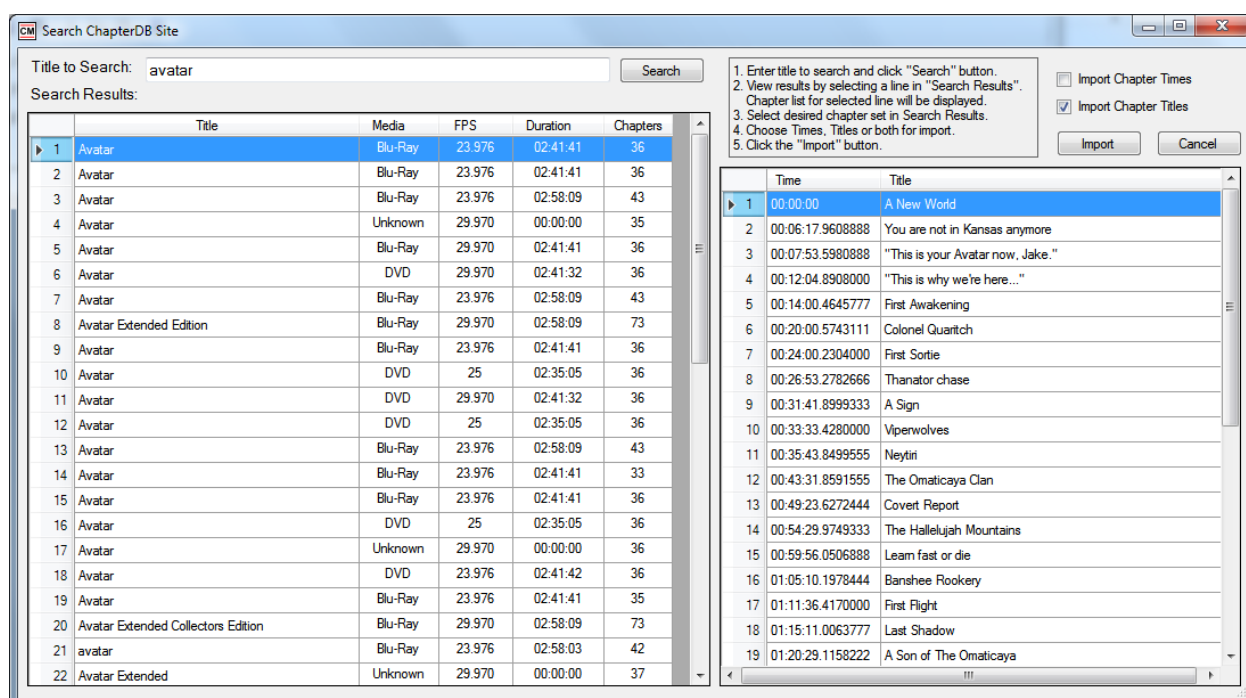
You can also output the chapter information to a Matroska (.mkv) file by selecting the existing file. Note that this requires the MKVToolNix command line utilities, and you must set the path in your settings.

Note that the number of entries in the output file is based on the number of chapter times in the list. Times with no associated chapter title will be given a default title – either “n/a”, chapter time or “Chapter #” – based on the configuration settings. Chapter titles with no associated time will be ignored.

When creating the output file, you have the option of including or omitting the chapter times and numbers with the titles, and you can set the language code used for any XML files produced.

Internet Lookup

If you have an internet connection, you can retrieve chapter time and title information from ChapterDB.org automatically. To do this, you click on the lookup icon (binoculars), or select the “Search ChapterDB” option from the “Tools” menu, or press Ctrl-D. This will bring up a new window for you to enter your search criteria. Once you enter your search information and click “Search”, you will be presented with the search results.




When you select a result from the list on the left side of the screen, the details are displayed on the right side. Once you have selected the desired result, choose whether to keep the times, titles or both and then click the “Import” button. The selected information will be imported into your working list.

Chapter Times

Importing Times

There are two different ways of automatically getting the chapter times entered into the list. The first method is by importing the times from an input file as described in the “Input Files” section of this document, or from an internet lookup as described in the “Internet Lookup” section of this document.



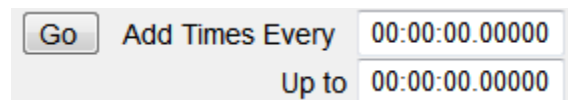
Times File:

Note that the imported times will either be appended to the list of existing times or replace the existing list, depending on the user’s “Append” setting.

Adding Interval Times

The second method is by having the system create times at specified intervals up to a specified end time. This method is typically used as a starting point when chapter times are not available.

The times are added by entering the desired interval in the first box, and the maximum time in the second box. For example, to add a chapter time every five minutes for an hour, the first box would be set to “00:05:00.00000” and the second box to “01:00:00.00000”.

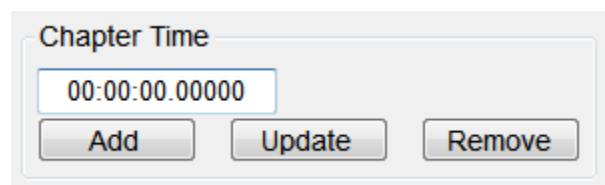


Add Times Every
Up to

Adding interval times will not delete the existing times in the list. This method is explained in greater detail with an example in Appendix 4.

Manual Entry / Editing

Chapter times can also be added manually by entering the time in the Chapter Time box and clicking the button.



Chapter Time

Individual chapter times can be manually edited or deleted. When an existing time in the list is selected, it will appear in the Chapter Time text box. The time can then be modified by making the desired changes and clicking the button, or deleted from the list by clicking the button.

Scaling Blocks of Times

Blocks of chapter times can be scaled by selecting an existing chapter time (which will display in the first box) and entering the time that you want the selected time to become in the second box.

Scale Times so
 Becomes

The selected time will be changed to the value in the second box, and all preceding times will be scaled accordingly. For example if the selected time (in the first box) is “00:20:00.00000” and the new time (in the second box) is set to “00:30:00.00000” the times will be adjusted as follows:

Original Time	New Time After Scaling	Comments
00:00:00.00000	00:00:00.00000	No change. End point for scaling.
00:05:00.00000	00:07:30.00000	Scaled by 150% (00:30:00.00000 / 00:20:00.00000)
00:10:00.00000	00:15:00.00000	Scaled by 150% (00:30:00.00000 / 00:20:00.00000)
00:15:00.00000	00:22:30.00000	Scaled by 150% (00:30:00.00000 / 00:20:00.00000)
00:20:00.00000	00:30:00.00000	Selected time changed to desired new time
00:35:00.00000	00:35:00.00000	Unchanged because falls after the selected time
00:45:00.00000	00:45:00.00000	Unchanged because falls after the selected time

Shifting Blocks of Times

Chapter times can be shifted by entering the number of seconds in the box. Entering a positive number will shift the times forward (later), while entering a negative number will shift the times backwards (earlier).

Shift Times by seconds

Note that the shift will be applied to the selected time and all subsequent times in the list. When shifting backwards, any resulting negative times will be set to 00:00:00.00000. This may result in multiple zero time entries.

Chapter Titles

Importing Titles

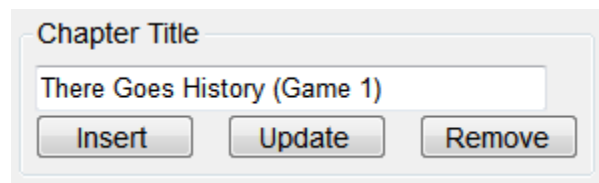
Chapter titles can be imported from an input file as described in the “Input Files” section of this document, or from an internet lookup as described in the “Internet Lookup” section of this document.



Note that the imported titles will either be appended to the list of existing titles or replace the existing list, depending on the user’s “Append” setting.

Manual Entry / Editing

Chapter titles can also be added manually by entering the title in the Chapter Title box and clicking the button. The title will be inserted above the selected title in the list.



Individual chapter titles can be manually edited or deleted. When an existing title in the list is selected, it will appear in the Chapter Title text box. The title can then be modified by making the desired changes and clicking the button, or simply by editing it in place in the list.

Items can be deleted from the list by selecting them and clicking the button.

Rearranging Titles

Chapter titles can be rearranged in the list by selecting a title and dragging ‘n’ dropping it in the new location. The title being moved will be placed above the title it is dropped on.

Title Case Utility

There is a built-in utility that will attempt to correct the capitalization of all titles to proper title case.

Fix Case on All Titles

When selected, it will be applied to every title in the list.

How it Works

The utility works by applying a series of rules against the titles, in the following order:

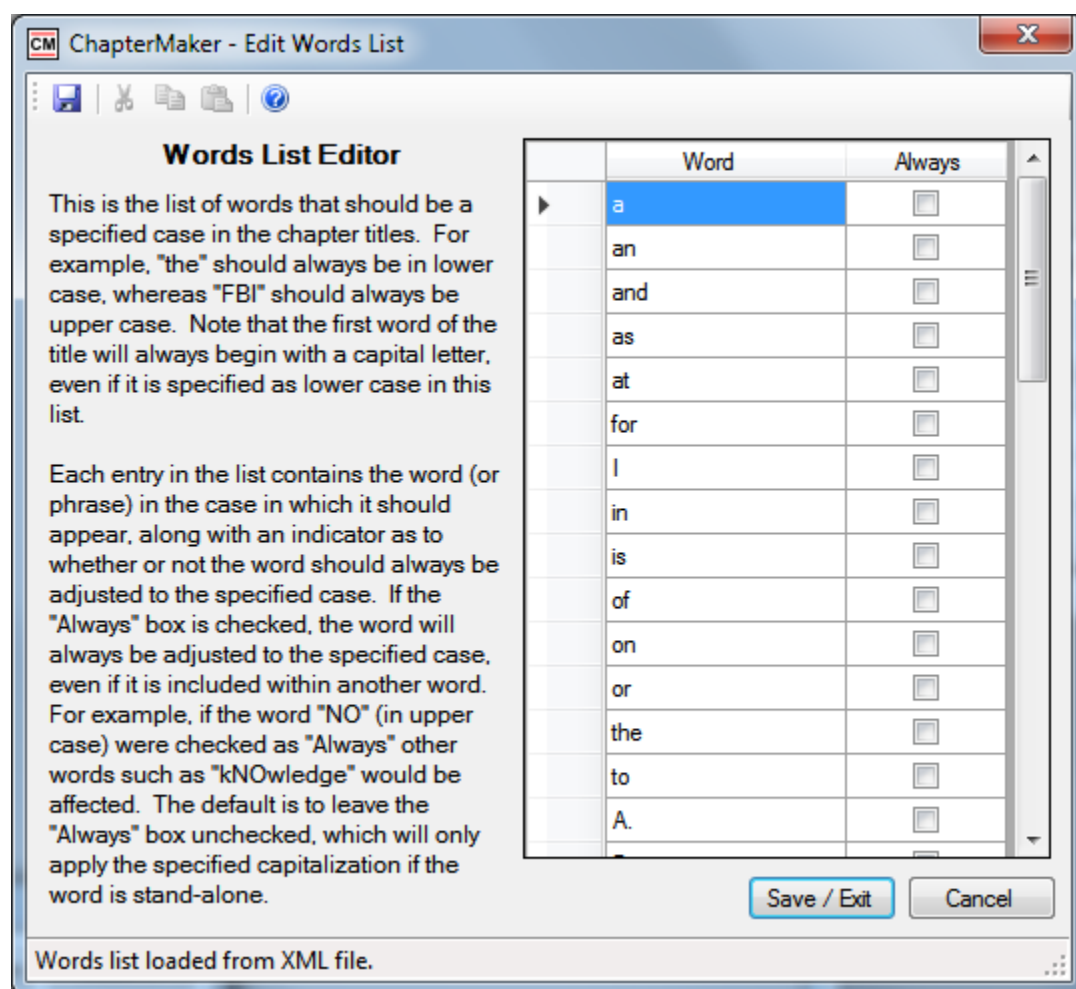
1. The standard Microsoft title case conversion is applied.
2. The first letter after all typical word separators is capitalized.
3. Adjust the case to that specified in the user-defined words list for all entries not specified as "Always".
4. Adjust the case of the first character immediately following each apostrophe. For example, "Can'T" would be changed to "Can't".
5. The first letter of the title is converted to upper case, even if preceded by non-letters such as quotes.
6. The first character immediately following every digit is converted to lower case.
7. Adjust the case to that specified in the user-defined words list for all entries specified as "Always".

The titles in the list are updated with their "corrected" versions. Note that the resulting titles can still be edited manually to correct any situations where the title didn't come out as expected.

Words List

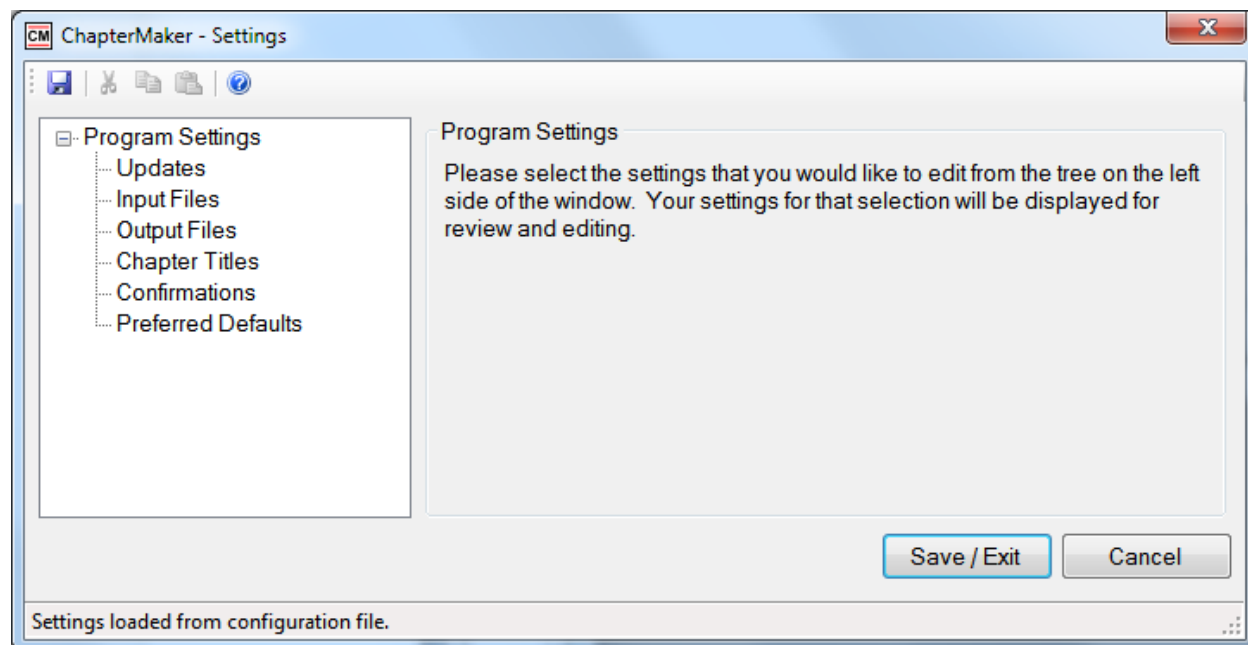
The words used in rules 4 and 6 (above) are taken from a user-defined list. If no list exists, a default list is created and saved when the program is started. The list can be edited by selecting "Tools" and then "Words List" from the toolbar.

Words should be entered in the case / capitalization that should be used in the titles. The "Always" box determines whether the word is applied in Rule 4 (not checked) or Rule 6 (checked). Care should be taken when marking a word as "Always". For example, if the word "LA" (all capitals) was entered and "Always" was checked for the word, you could end up with a title such as "The BaLLAd" or "AILAn's Wish". In most cases, the "Always" option will not be selected for the word.



Preferences and Default Settings

The program maintains a list of user preferences and default settings. These can be edited and saved by selecting “Tools” and then “Settings” from the toolbar.



Help System

In addition to this manual, an on-line help system has been included with the program. It is available by selecting “Help” from the toolbar.

When Things Go Wrong

In spite of all the planning, testing and best efforts, occasionally something gets missed and things go wrong. Most error messages generated by the program will give you some idea of the cause of the problem. In those cases where a problem is recurring and cannot be resolved using the information in the error message, please report the problem at <https://sourceforge.net/p/chaptermaker/tickets/> including as much information about the problem as possible. We will review the problem and may contact you for additional information to ensure a proper solution.

Appendix 1: Software License Agreement

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Version 3, 29 June 2007

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- c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
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A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

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This is an example text file created by copy 'n' pasting information for the movie "Any Given Sunday" as shown on the Barnes & Noble web site. Chapter times created when the file is read appear on the right.

1. There Goes History (Game 1) [4:25]	00:00:00.00000
2. Two in a Row [1:17]	00:04:25.00000
3. Mystery Man [4:22]	00:05:42.00000
4. Hurting Men [1:48]	00:10:04.00000
5. Half-time Speech [2:24]	00:11:52.00000
6. Go to the Buick [3:41]	00:14:16.00000
7. Turning up Volume [2:36]	00:17:57.00000
8. Post-Game 1 [2:21]	00:20:33.00000
9. Hospital Visit [2:13]	00:22:54.00000
10. Bar Talk [4:21]	00:25:07.00000
11. Matters of Economics [6:43]	00:29:28.00000
12. Off the Playbook (Game 2) [4:47]	00:36:11.00000
13. That is Football [2:27]	00:40:58.00000
14. Benefit Party [3:31]	00:43:25.00000
15. Getting and Going Along [3:03]	00:46:56.00000
16. Lovers Quarrel [1:40]	00:49:59.00000
17. Airplane to L. A. [1:51]	00:51:39.00000
18. Game 3 [3:54]	00:53:30.00000
19. Steamin' Beamen [3:50]	00:57:24.00000
20. Post-Game 3 [3:23]	01:01:14.00000
21. New Blood [3:10]	01:04:37.00000
22. One Can, the Other Can't [3:13]	01:07:47.00000
23. Media Star [3:27]	01:11:00.00000
24. Lunchtime Argument [5:33]	01:14:27.00000
25. Sharks Party [1:56]	01:20:00.00000
26. Stormy Weather (Game 4) [6:13]	01:21:56.00000
27. Back to Basics [1:00]	01:28:09.00000
28. Dreams of Warriors [2:20]	01:29:09.00000
29. Steamroom [5:15]	01:31:29.00000
30. Cap's Decision [1:56]	01:36:44.00000
31. Willie Finds Vanessa [4:39]	01:38:40.00000
32. Tony Visits Margaret [2:52]	01:43:19.00000
33. Pantheon Rings [2:00]	01:46:11.00000
34. Reluctant Tasks [3:48]	01:48:11.00000
35. Inches Speech [3:04]	01:51:59.00000
36. Cap's Game [4:32]	01:55:03.00000
37. The Commissioner [4:12]	01:59:35.00000
38. Half-Time [1:41]	02:03:47.00000
39. Visual Damage [3:40]	02:05:28.00000
40. Willie's Game [1:46]	02:09:08.00000
41. 4th and 1 [2:43]	02:10:54.00000
42. Christina and Margaret Reconnect [3:01]	02:13:37.00000
43. Willie and the Team [2:38]	02:16:38.00000
44. Final Play [2:51]	02:19:16.00000
45. Together [2:52]	02:22:07.00000
46. Tony's Plans [3:00]	02:24:59.00000
47. End Credits [4:04]	02:27:59.00000
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Appendix 4: Example Use of Time Editing Functions

Assume that you want to create 9 chapters, equally spaced for a video that has a total duration of 1:38:26.50000. Rather than doing a bunch of math to find out the appropriate duration to use with the interval tool, here is a simpler way.

First clear the chapter times list by clicking the  button.

Add Times Every

Up to

Next, set an interval of one minute (00:01:00.00000) and a maximum value of nine minutes (00:09:00.00000) and add the times. This will give you ten equally spaced chapter times starting at 00:00:00.00000 and ending at 00:09:00.00000.

Scale Times so

Becomes

Then select the last time (00:09:00.00000) and scale it to the total duration of the video (01:38:26.50000). This will produce the following list of chapter times:

Old Chapter Time	New Chapter Time	Comments
00:00:00.00000	00:00:00.00000	Chapter 1
00:01:00.00000	00:10:56.27778	Chapter 2
00:02:00.00000	00:21:52.55556	Chapter 3
00:03:00.00000	00:32:48.83333	Chapter 4
00:04:00.00000	00:43:45.11111	Chapter 5
00:05:00.00000	00:54:41.38889	Chapter 6
00:06:00.00000	01:05:37.66667	Chapter 7
00:07:00.00000	01:16:33.94444	Chapter 8
00:08:00.00000	01:27:30.22222	Chapter 9
00:09:00.00000	01:38:26.50000	End of video. Keep or delete time as desired.