

SubtitleCreator User Guide

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Introduction

[SubtitleCreator](#) v2.2 allows you to convert ASCII based text files in [SubRip](#)'s SRT or MicroDVD's SUB format to the binary SUP format expected by DVD authoring tools such as [MuxMan](#) or [IfoEdit](#) or to the binary VobSub format (*.sub/*.idx) expected by the most recent Stand Alone Players and by some software DVD players (like Media Player Classic or KMPlayer). As such, you are able to create and add your own subtitles to a DVD or visualize your subtitles whatever the fonts they use on your SAP. You can also manipulate existing subtitles, for example to shift them or to change their colors. Additionally, if you don't own the copyright of the DVD, you can overlay subtitles on top of your DVD. Finally, it also included a DVD Authoring Wizard function, which is especially useful for beginners and lazy people like me to add a new subtitle to a previously copied DVD (e.g. with [DVDShrink](#)). It combines the power of [PgcDemux](#), [MuxMan](#) and [VobBlanker](#) to add subtitles in one go, thereby even allowing you to retain the original DVD menu.

GUI language

SubtitleCreator supports several GUI languages: English, Dutch, French and Finnish. Normally it should automatically default to the same language as the installed Windows language. If you want to change SubtitleCreator's GUI language, go to **Settings → Specify GUI language (requires restart)** and choose the language you want SubtitleCreator to use. Then click on the OK button to close SubtitleCreator. Then restart it and it will show up in the language you have chosen.

Overview of main features

To give you a brief overview of its features, consider the following list:

- Convert SubRip (*.srt) or MicroDVD (*.sub) files to IfoEdit (*.sup) or VobSub (*.sub/*.idx) files.
- When converting to the *.sup format, SubtitleCreator can also generate a file holding the used palette. This file can use one of the following format: *.ifo, *.mxd (muxman project format) or *.clb (pgccedit format).
- Load (thanks to the [SubRip](#) sources) the corresponding IFO file to determine whether we are dealing with a PAL or NTSC movie, and to read the color palette which is used by the original subtitles: by default, a white text, a black outline and a silver anti-alias color on a transparent gray background are selected.
- Uses the line breaks you defined in the *.srt source, such that dialogs stay on different lines. However, the maximum number is defined by you, and if it doesn't fit the window, the subtitles are joined and, if necessary, shrunken. If selected in the Settings menu (default is true), the subtitles which are too long will be highlighted in light blue. You can also warn when the subtitle's duration is too short (default is off).
- You can use *<i>italics</i>*, **bold**, or <u>underlined</u> subtitles, <L>, <l> and <s> for LARGE, large, and small text, and specify a subtitle's exact position (SubRip format)
- You can use <k>karaoke color</k> to use an extra color of the palette in your subtitles. This is a karaoke mode. You can choose the color for the karaoke texts in the main window of SubtitleCreator.
- Preview and position your subtitles (using a screenshot as background or the original DVD). You can even preview your DVD with the subtitles being overlaid on top of it as if it was the final DVD.

- Deselect subtitles that you don't want
- Automatically deselects credit lines (with @, or http)
- Choose the font that you like to use
- Use profiles for default font and subtitle window position settings
- You can join several subtitle files, e.g. if the original subtitle consisted of two parts
- Synchronize the subtitles using time shifting; frame rate conversion; or, my preferred option, using the original subtitle *.sup or .sub/.idx: you can select matching subtitles in the new and original subtitle and match them. Save the synchronized subtitle file
- Stretch subtitles in horizontal and vertical direction
- Specify how many lines you wish to use for the subtitle
- Specify whether you want SC to automatically wrap lines
- Specify whether you want SC to generate bitmaps of the subtitles for you
- Specify whether you want SC to remove double spaces and other types of annoyances
- When opening a MicroDVD's SUB file, special formatting commands are automatically recognized, like {Y:i}, {Y:b} and {Y:bi}
- You can define your own shortcuts in the configuration file, e.g. <s M> gives you the music symbol
- You can search for a subtitle string.
- SUP or VobSub manipulation tool, which allows you to remap the colors of a binary subtitle SUP or VobSub file, or to shift it vertically
- SUP or VobSub to SRT translation tool, providing you with a simple editor to translate your DVD from scratch.
- Most Recently Used File list, and the option to automatically open the last used file
- DVD Authoring Wizard which, together with two other great freeware tools, [PgcDemux](#), [MuxMan](#) and [VobBlanker](#) can simplify the process of adding a subtitle to a new movie (You can even keep the menu).
- Special command buttons in the main window: set the font for a single subtitle, increase and decrease fonts

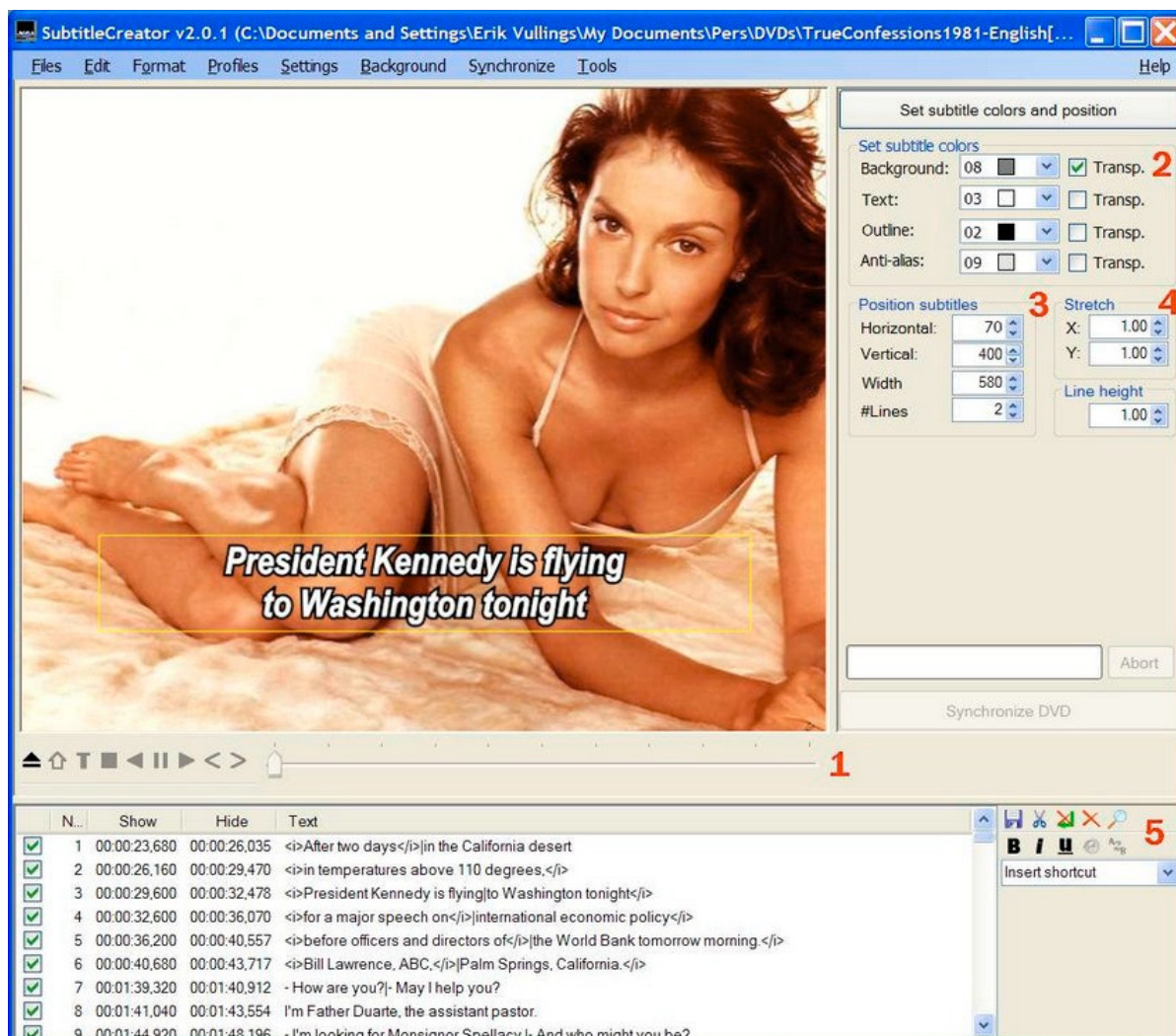
Well, that's about it before I show you some screenshots. If you have some suggestions, or if you found some bugs, please mail them to me via subtitle forum at <http://forum.doom9.org> or send me a private message as Paddington.

Installation

Very simple – just run the installer, which will install the SCFilter for you as well. It requires that you have installed the [.NET framework 2.0](#) and DirectX plus a DVD decoder (if you want to preview subtitles on top of your DVD, we recommend that you install PowerDVD 6 first).

If you intend to use the DVD Authoring Wizard, which I can definitely recommend, please also install [PgcDemux](#), [MuxMan](#) and [VobBlanker](#) (default location in C:\Program Files\DVD).

Main Window



About the menu:

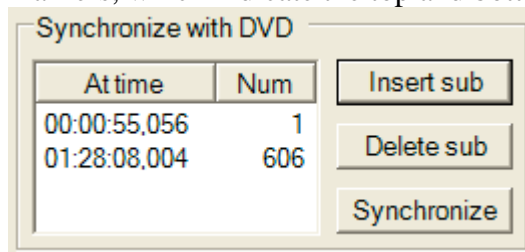
- The File menu allows you to open the DVD's IFO file (in order to read the color palette and PAL/NTSC settings), the subtitle file (SRT or SUB format), and save them as binary SUP or VobSub (or SRT) file. Additionally, you can check to join multiple subtitles in case the originals are split, or load another background.
Tip: Press CTRL-X, and enter eXpress mode, which quickly lets you load the subtitle file, the IFO file, and the SUP or VobSub file for synchronization.
- The Format menu controls the display of the subtitles, and you can load a predefined profile (as specified in the Profiles.xml configuration file), which controls fonts, outline width, wrapping, etc. You can also overrule the formatting settings, change the vertical alignment of the subtitle in the subtitle window (yellow rectangle). Additionally, you can select a different outline and anti-aliasing rendering method (uncheck "Characters unconnected"), which might be useful for Persian fonts.
- The Settings menu controls PAL/NTSC settings, and specifies if you want to change the position of all subtitles (default), or only the currently selected one. This is also the menu where you will find settings related to the DVD overlay, and the creation of palette files with *.sup files.
- All the synchronization options: time shifting, frame rate conversion, and, the most useful option, based on an original SUP or VobSub subtitle file. Additionally, it allows

you to specify if you want to display every line when synchronizing with another SUP (see Synchronize) or every second, fifth or tenth line.

- The Tools menu allows you to manipulate existing SUP or VobSub subtitles, so you can reposition them or remap the colors. Additionally, you can automatically shift original subtitles to the current subtitle text area, and finally, it contains a DVD authoring wizard that allows you to easily create a simple DVD with your new subtitle (but without menus).

Other options:

1. DVD player options (you should only see this if you have DirectX installed, and have a software DVD player, i.e. the MPEG codec, on your system):
Open DVD, root menu, chapter menu, stop, play backwards, pause, play, previous and next chapter, plus a tracker that let's you jump through the movie.
Currently, this feature doesn't work if another program already uses the DVD interface, such as DVDshrink.
2. Choose the subtitle colors here, and their transparency. The colors are defined in the IFO that comes with the DVD (SubtitleCreator starts with the IFO in the Examples directory). As the original subtitles also use this color palette, you better use it yourself. However you can also open an external palette file if needed (*.ifo, *.mxf or *.clb formats are supported) using the File → Open Palette menu. You can even copy paste palettes between SubtitleCreator and PgcEdit.
3. Position the subtitle window (I play the DVD and reposition the subtitle window using the two black triangle markers, which indicate the top and bottom of the window).



Additionally, after loading a DVD, you should see a third menu (see above) that allows you to synchronize with the DVD (I prefer the advanced synchronization using an original SUP or VobSub, but sometimes the movie doesn't have a subtitle, in which case I resort to this option). It works as follows: you pause the movie, select the subtitle you would like to appear at the current time, press "Insert sub", and potentially adjust the timing a little. After you have done this for a couple of subtitles (at least one near the beginning, and one near the end), press synchronize and voilà, all other subtitles are corrected as well using time shifting and frame rate corrections.

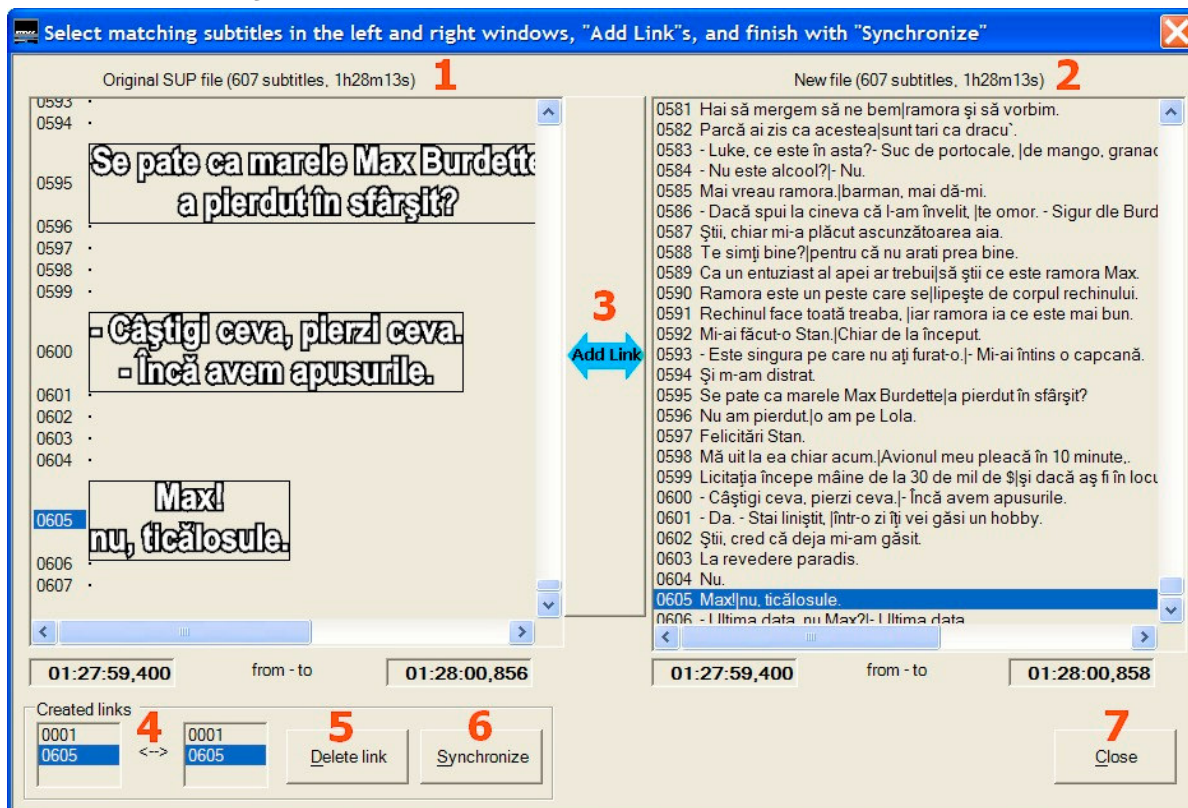
4. Stretch the subtitles if needed. This is needed if you use an anamorphic DVD. In this case, choose a value between 1.2 and 1.33 for the Y stretch. Watch the DVD with the subtitle overlaid to check the final aspect of your subtitles.
5. A set of options to control the appearance of the subtitles:
First line: Save subtitle (CTRL-T), Split subtitle at line break, Remove line break, Delete subtitle, Search subtitles (CTRL-F is new search, or F3 to repeat the search)
Second line: Bold (CTRL-B), Italics (CTRL-I), Underline (CTRL-U), Jump to a selected subtitle (CTRL-J), and AB repeat.
Insert shortcuts: insert predefined (in SubtitleCreatorProfiles.xml) text, such as Music symbols (<s M/> and <s m/>), at the beginning of the string. Some other useful commands are <L>, <l> and <s> to make the current line Larger, larger, or smaller than the current subtitle font.

List box: You can edit the times and the subtitle text (double click), and select whether or not you wish to include it. Uncheck subtitles if you wish to exclude them for some reason. Note that you can use italics (start with *<i>* and optionally end with *</i>*), bold (** versus **), regular and underline (<u> versus </u>) fonts.

Tip: If you want to use another font for the current subtitle, you can specify it as follows: `<f Name='Arial Narrow', Type='Regular', Size='14'>`.

Tip: If you wish to position the current subtitle somewhere else, you can go to Settings, unselect “Change all subtitles”, and move the subtitle box with the mouse.

Advanced Synchronization Window



One of the biggest problems I had was synchronizing the subtitles of a movie with the video and audio. Therefore, I created this feature which uses one of the original subtitles of the DVD to synchronize your own subtitles.

The interface is very intuitive to me, and I hope to you as well: just select corresponding subtitles left (1 – from the original SUP or VobSub file) and right (2 – your subtitle file) windows, and click “Add Link” (3). The created links are shown in (4) and can be deleted with (5). Finally, select “Synchronize” (6) when you are done, which will use linear synchronization to correct for time shifts and frame rate conversions between the different subtitles.

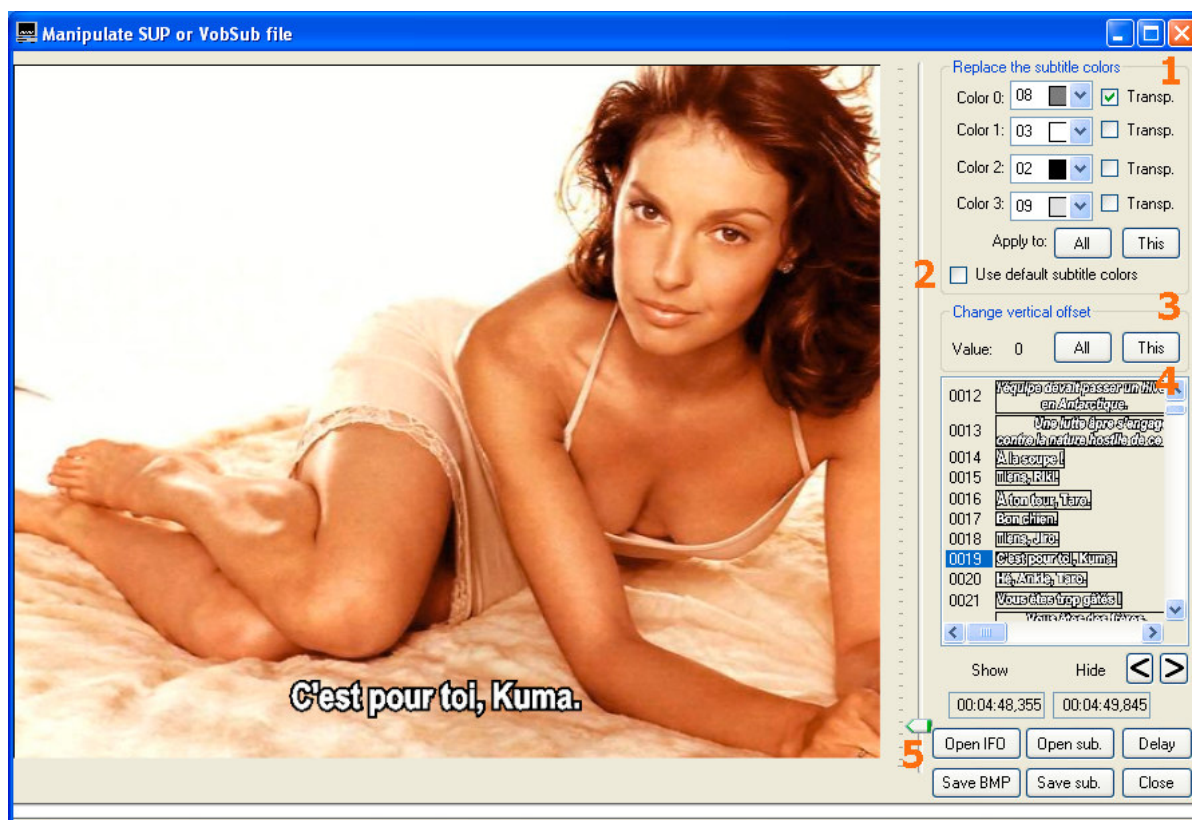
Tip 1: By double clicking in the left (1) window, the right window (2) will jump to a subtitle that has approximately the same start time. The same for double clicking in the right window, although less practical as there are fewer subtitles to show in the left.

Tip 2: When your subtitles are split in two parts, you are never sure whether the second part continues straight away after the first set of subtitles, or whether there is an additional pause. Therefore, create links with the original for (one of) the first and last subtitle in each set. You will see some additional buttons ‘<’ and ‘>’ to jump to the beginning and end of each file, respectively.

Tip 3: If you need more (or less) subtitles, you can set your preferences in the main window’s Settings menu (“When synchronizing, display...”) or in the configuration file, `SubtitleCreatorProfiles.xml`.

SUP or VobSub Subtitle Manipulation

Select Tools→Manipulate SUP or VobSub, and you will see the following window appear, which allows you to change each subtitles' vertical position, and you can use a different set of colors. You can also open HD-DVD subtitles demuxed using EvoDemux. The HD-DVD subtitles will be converted to DVD subtitles on the fly before being open. Note that you can't open Blu-Ray subtitles with SubtitleCreator.



About the buttons:

1. The Open IFO button allows you to open the subtitles' palette file (*.ifo, *.mxf or *.clb).
2. The Open sub. button to open the SUP or VobSub file you want to manipulate.
3. The Save sub. button to save the subtitles as a SUP or VobSub file.
4. The Save BMP button to save the subtitles as a collection of .bmp, .png or .jpg files.
5. The Delay button allows to add a Delay to the whole subtitle.

The other options should be clear:

1. Remap the colors of all subtitles, or only this subtitle.
2. Force the palette to the default subtitle color palette. (This setting will be automatically deselected when you open a palette file or an idx file).
3. Choose if you want to apply the vertical offset to all the subs or only to the current one.
4. Select a subtitle you wish to display
5. Move the subtitle vertically (use the vertical track bar).

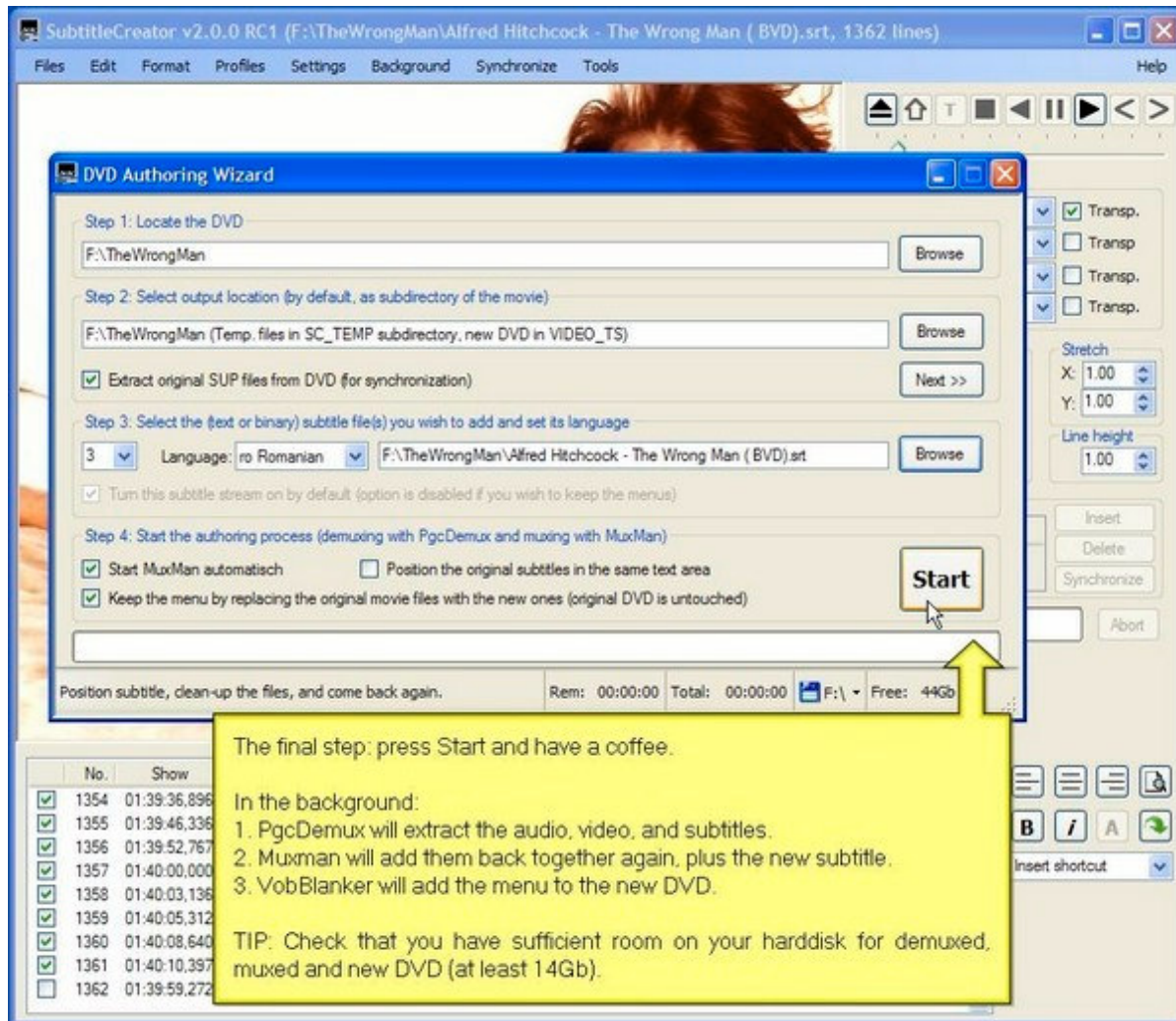
Importing HD-SUP files

Starting with version 2.2, SubtitleCreator can import High Definition subtitles (HD-DVD format). Blu-Ray subtitles are not supported yet.

To import such a subtitle (for example extracted from a HD-DVD using EvoDemux), just open it like a standard SUP file (Tools=> Manipulate SUP or VobSub menu) and SubtitleCreator will detect that it's a HD subtitle and automatically convert it to the SD format. Depending on the state of the "Manipulate SUP or VobSub" window (PAL or NTSC), the HD subtitle will be converted into a NTSC or PAL subtitle. The size of the subtitle is converted from the HD resolution (1920x1080) to the SD resolution (720x576 for PAL, 720x480 for NTSC), the number of colors is reduced to 4 and the corresponding palette is generated (Only the colors of the first HD-SUP subtitle are used to generate the palette). You can then save the resulting SD subtitle to the SUP or VobSub format. However remember that the saved subtitle will have less colors and a smaller definition than the original HD-SUP file so you'd better save also the original for future use.

DVD Authoring Wizard

After you have installed PgcDemux, Muxman and VobBlanker (latest versions, see the Installation chapter), you can use the DVD authoring wizard for your convenience, which has two big advantages: First, you don't need to interface with these programs directly. And second, the subtitle creation can be done at the start of the process, and not in the middle.



The wizard will ask you to:

1. Select the original DVD's location:
2. Press Next: PgcDemux will automatically extract existing (or remaining) subtitles for synchronization (optionally you can turn this off, and you can define alternative output locations for temporary and final files)
3. Specify the new subtitle's language and open the file, after which you have to go through the normal process in order to create a SUP file (position it, check subtitle colors, font size, etc.)
4. Finally, create the SUP and return to the wizard to allow PgcDemux to demultiplex your DVD into separate video, audio and subtitle streams, MuxMan to put everything back together again (including your new subtitle), and VobBlanker to restore the menu.

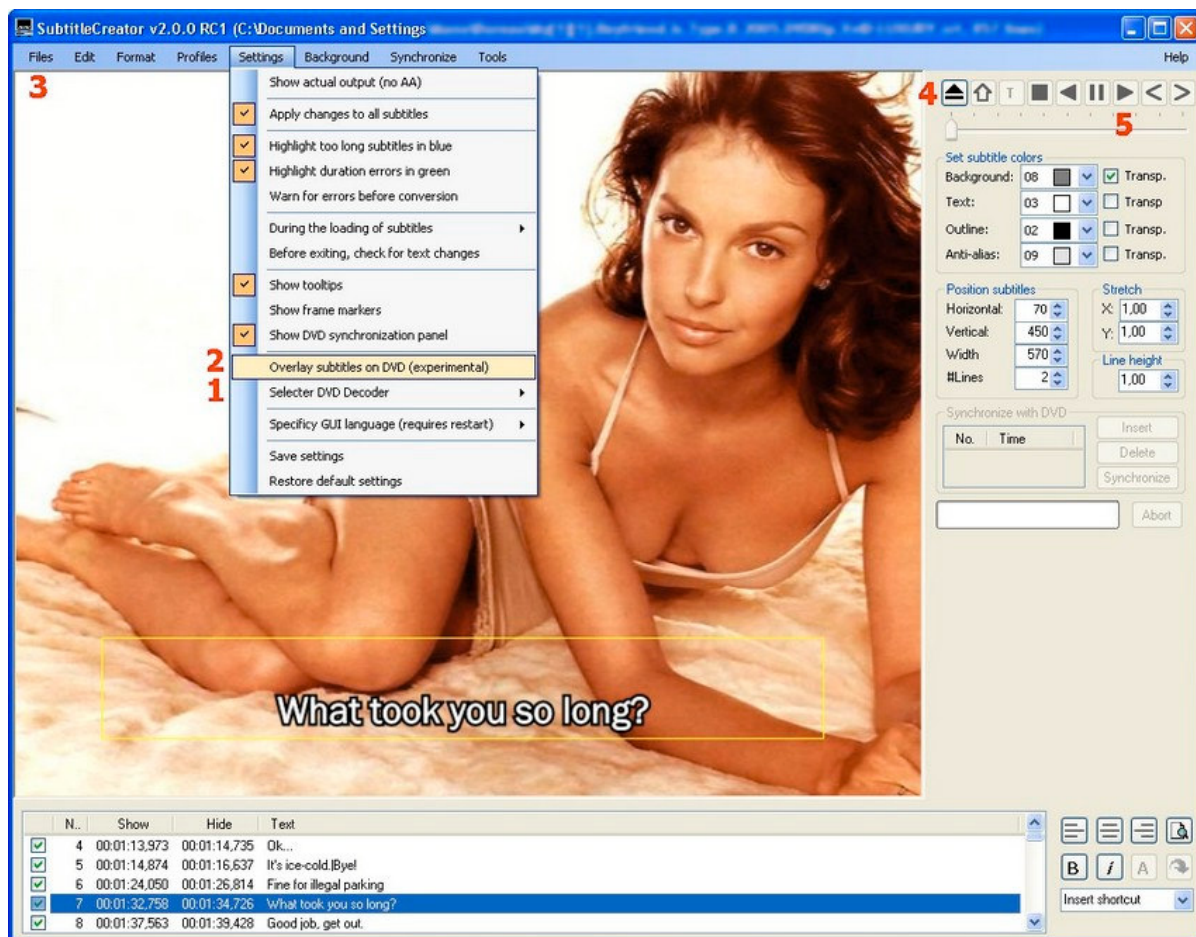
When there is no existing subtitle stream in the original DVD (home made DVD for example) the Wizard will automatically select the preferred palette. This should avoid black/green subtitles.

Subtitle on top of DVD Preview

With SubtitleCreator, it is possible to preview the actual subtitles on top of the video. This works with every type of subtitles, whether they be horizontal, vertical, in Chinese, Japanese, or any other language.

To be able to preview the subtitles on top of the DVD, SCSubtitle filter must be installed. Normally it has been installed automatically when installing SubtitleCreator 2.2. A DVD decoder must also be installed to allow you to preview your DVD. We recommend the use of [PowerDVD 6](#) (Version 4 and 6 have been tested successfully).

If PowerDVD and SCSubtitle filter are correctly installed, you can now preview your subtitles on top of your DVD.

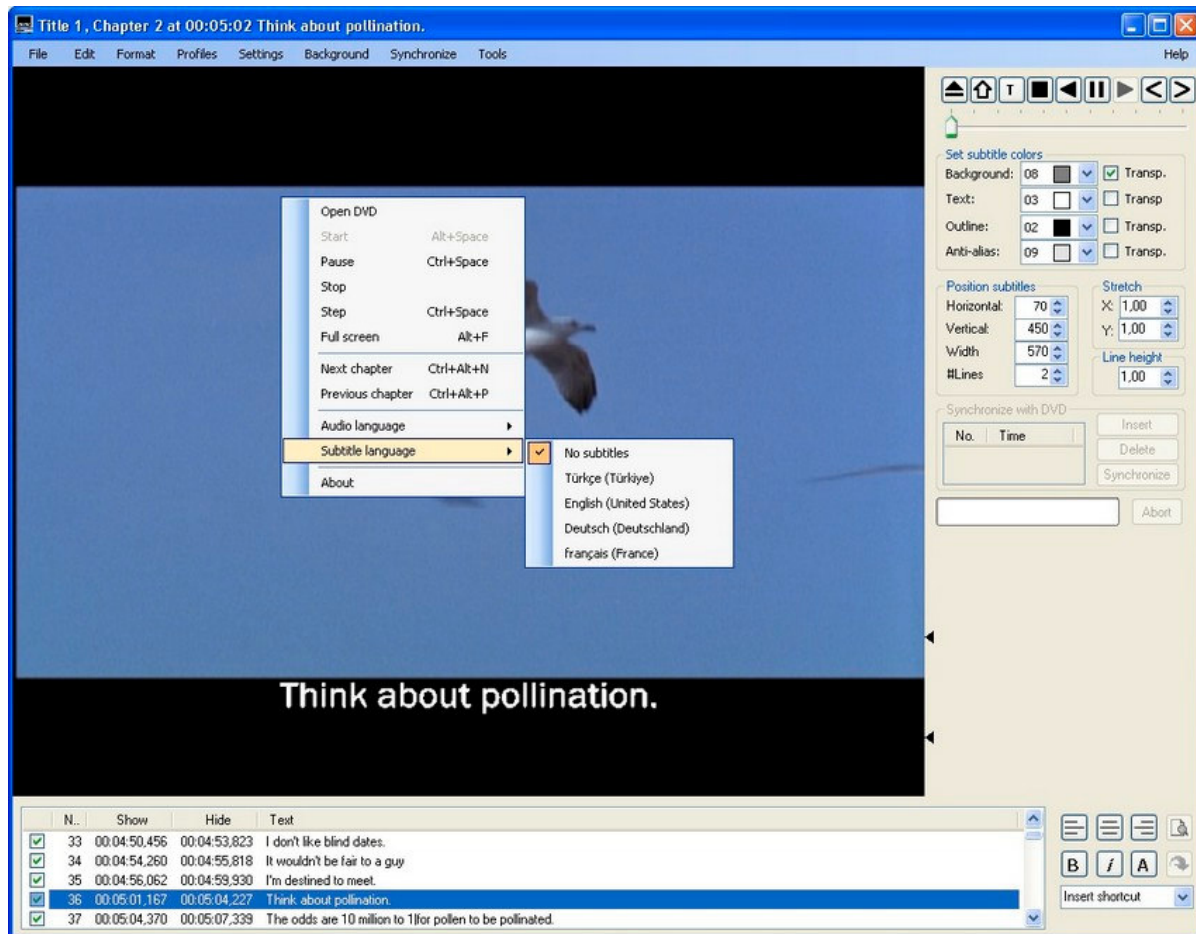


For that:

1. Go to Settings, Select DVD Decoder and choose "Preferred by SC" if you have PowerDVD version 6 installed or "Preferred by system" if you want the system choose it for you.
2. Go to Settings and check "Overlay subtitles on DVD (experimental)" if it's not already done. You can choose "Save settings" if you want to save it for the next time.

3. Open your subtitle file (.srt or .sub). (File→Open Text Subtitles). Optionally you can apply a profile (Profiles→Apply profile)
4. Choose the path and open your DVD (from a DVD or the Hard Disk)
5. Start playing your DVD

You must see the time incrementing on the title bar of the DVD window. The subtitles must be overlaid on top of the video.



If you right click on the DVD window, a popup will allow you to control your DVD: stop, pause, and single-step, display the video Full Screen, go to the next or previous chapter, display a subtitle stream (from the DVD) and change the audio stream. **This means that you can display subtitles from the DVD and from you subtitle file at the same time!**



You can also choose the about box that will display useful information about the DVD. It also displays the version of SC Subtitle filter and the DVD decoder that SubtitleCreator is

actually using. If it shows “Preferred DVD video Decoder” as the DVD decoder this means that you should have no problem to overlay subtitles on top of the DVD.

Known restrictions:

- The DirectShow filter that is used to overlay the subtitles on top of the DVD (SC Subtitle filter) will not work with all the DVD video decoders. We advice that you use PowerDVD (version 6 is the preferred version).
- Your PC must be powerful enough. According to the first tests, a 1.5GHz processor should be enough (to be confirmed). This also depends on the size of the subtitles you are using. The larger the subtitle, the more CPU power is needed.
- The aspect of the subtitles when in overlay mode reflects the aspect of the subtitle after being embedded in the final DVD. **However, the timing is not very accurate.** A 1-2 second shift is possible. We plan to fix this in the next versions.

Additional functionalities

The following functions have been added recently to SubtitleCreator. They are still beta functions so please be comprehensive if they don't really work as they should.

Tools → Recognize text using OCR

This function will work only if Microsoft Office 2003 is installed. It will use the OCR that comes with Office 2003 to automatically transform a SUP or VobSub file to the srt format.

Tools → Translate SUP or VobSub to SRT

This will allow you to translate a SUP or VobSub file to SRT by hand. You can either type the original's subtitle text or directly a translation. This function will automatically add the timing information of the original file for you.

Tools → Google Translate

This uses Google Translate to automatically translate for you a srt file from a language to another. This means that you need an open internet connection if you want to use this functionality. However it seems this option is not really working because of Google not allowing for multiple requests by an external software.

Tools → Conceal hard-coded subtitles

This allows you to add empty subtitles with a solid background to mask hard-coded subtitles. Note that after a manual chapter switch, you have to wait till the first subtitle arrives before it becomes effective (subtitles have no stop time, but need to start).

VobSub format specificities

WARNING: VobSub file support is still in beta tests so please backup all your existing VobSub files before using them.

Differences between SUP and VobSub binary subtitle formats

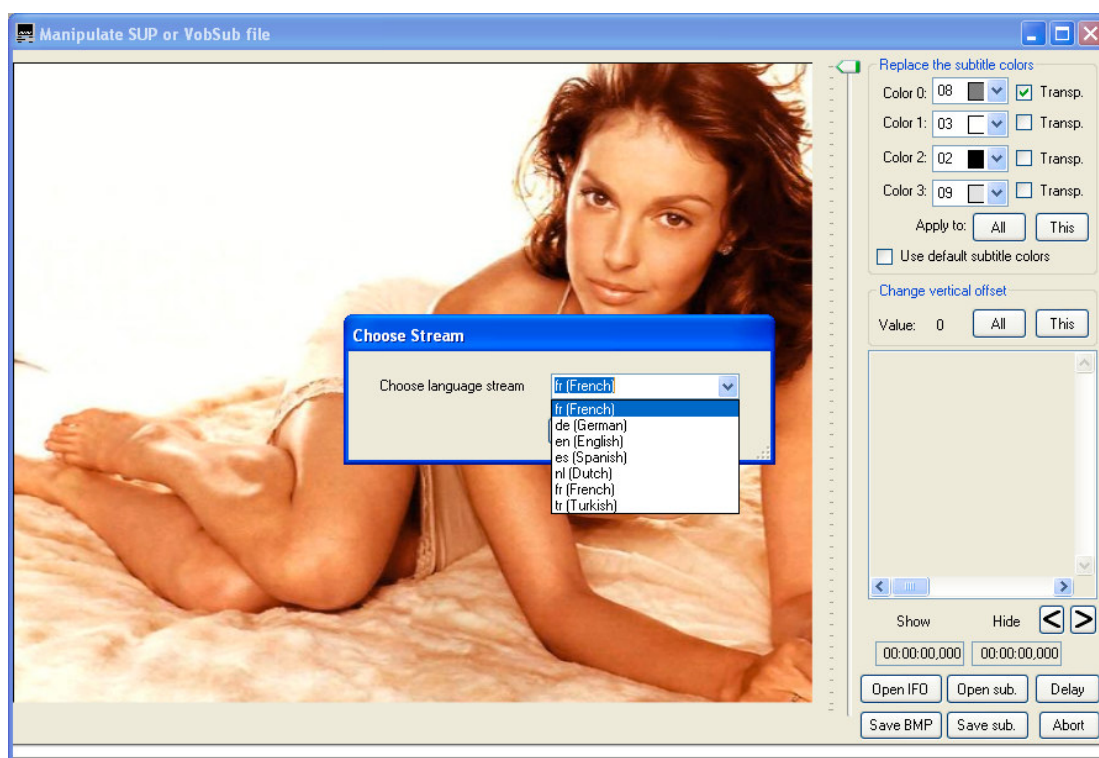
Starting with version 2.1, SubtitleCreator supports VobSub format. This format is very similar to the SUP format also (and originally) supported by SubtitleCreator. The Sup and VobSub formats are “binary” formats where each subpic is stored as a picture. The Sup format is especially useful to add subtitle streams to an existing DVD. The VobSub format is used for subtitle that are overlaid on top of existing DVDs or AVI files using either SAP (Stand Alone Players) or software video player (Media Player Classic, VLC or KMPlayer are good examples of player supporting the overlay of VobSub subtitles).

A VobSub subtitle stream is composed of two files which share the same name and have the “.idx” and “.sub” extensions. The “.sub” file is a binary file holding the bitmaps, the timings information (start time and duration of each subpic) and the stream IDs. The “.idx” format is a text file holding, palette information, language information and also the timing information (only the start time of each subpic). A VobSub filepair can also hold several subtitle streams.

SubtitleCreator VobSub support (INPUT)

SubtitleCreator supports multi-stream VobSub files. When you open such a file (**Tools → Manipulate SUP or VobSub**), SubtitleCreator will ask you which Subtitle stream you want to open (you can only open one substream at a time).

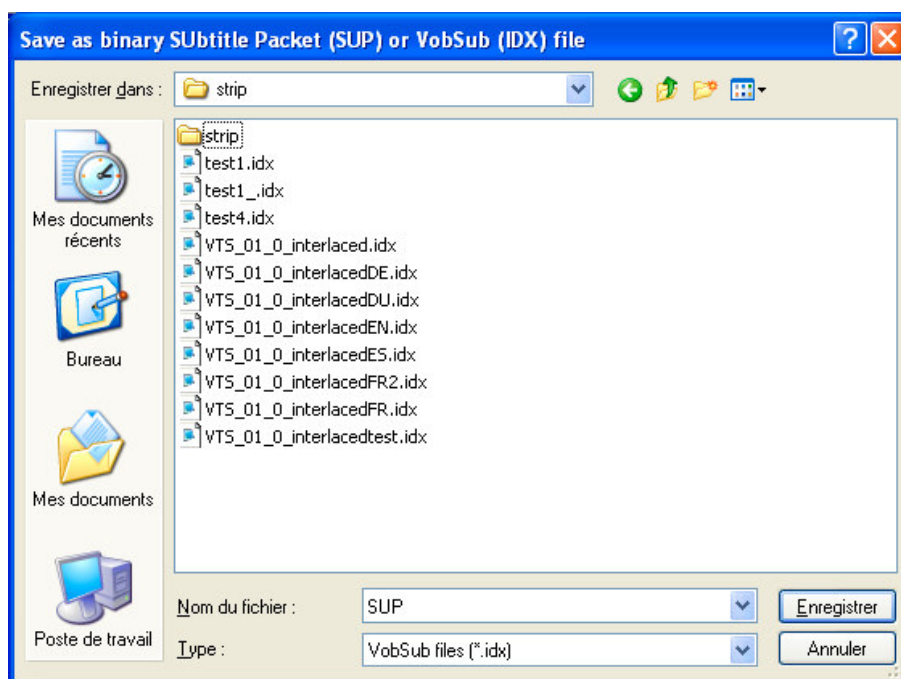
You can then process it the same way as if it was a SUP file.



When you open a VobSub file, SubtitleCreator uses the language and timing information it finds in the idx file (the duration comes from the sub file). It will also automatically switch the interface to NTSC or PAL mode according to what's specified in the *.idx file. There is a very easy method to delete some unneeded subtitles from a VobSub file. Just delete the corresponding lines from the idx file and the corresponding subtitles will be deleted. SubtitleCreator will also use the color palette of the idx file. SubtitleCreator supports also the VobSub “**delay:** [sign]hh:mm:ss:ms” tag. SubtitleCreator will update its internal palette with the palette found in the idx file. **BE CAREFUL:** This palette (until it is overwritten reading an IFO file, another idx file or applying the default subtitle colors) will be the one used for further subtitle generations.

SubtitleCreator VobSub support (OUTPUT)

SubtitleCreator allows you to create VobSub files. You can create a VobSub file directly from a srt of sub (text) file. Just use **Files → Save VobSub** or **Save VobSub as...** SubtitleCreator will ask you for the language of the stream. You can also create VobSub files using SUP or VobSub file. Use the **Tools → Manipulate SUP or VobSub** menu to open the file you want to save in the VobSub format. Make all the needed changes and Click on Save sub. On the drop-down list, choose “VobSub files (*.idx)” and type the name of the output file.



If the file you have open is already a VobSub file with a language id, your stream will be saved with the same language id as the input file. If the input file was a SUP file, then SubtitleCreator will ask you for the language of the stream.

SubtitleCreator allows you to add your VobSub stream at the end of an existing VobSub file. This allows you to add extra languages to existing VobSub files and have the choice of the

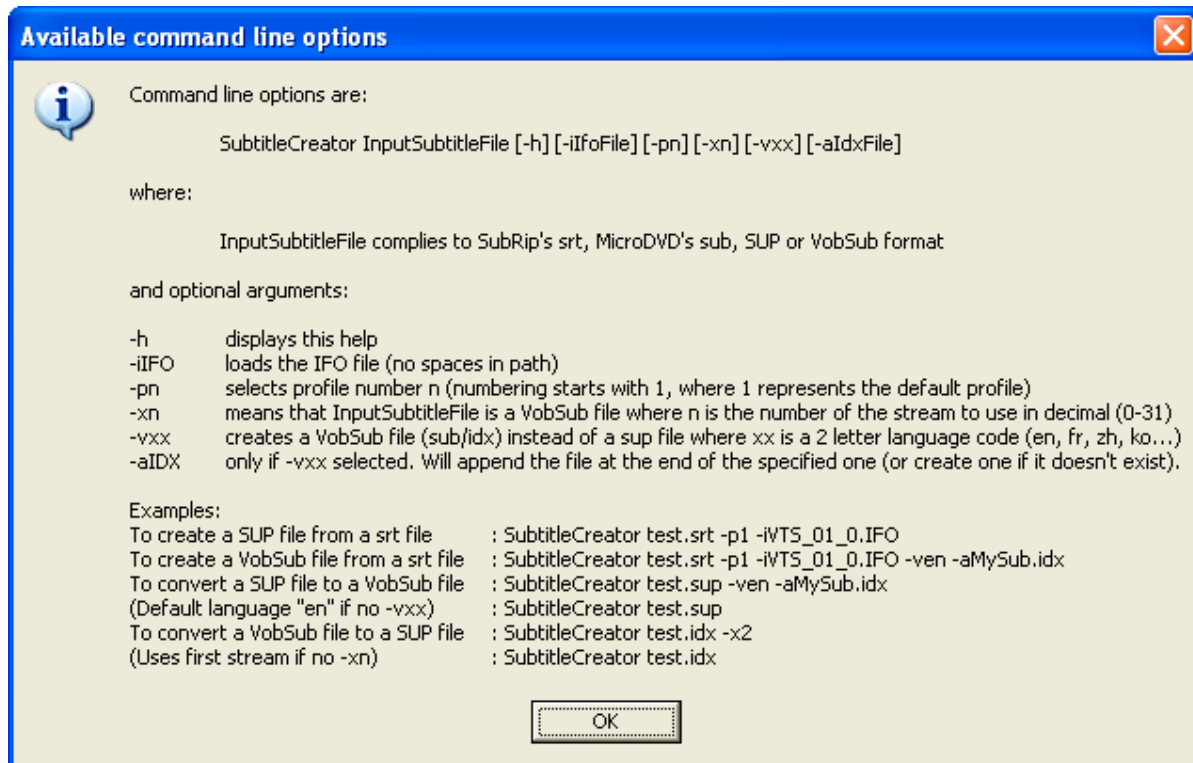
language on your Stand-Alone player even if your player accepts only one subtitle file. To our knowledge this is a unique feature.

To add a stream at the end of an existing VobSub file just use the name of the VobSub file you want to add the stream to as the output file name. SubtitleCreator will first ask you if you want to overwrite it. Just answer OK. Then it will ask you if you want to append your stream at the end of the existing VobSub file. Answer OK again. This works with the **Files → Save VobSub** or **Save VobSub as...** menus and also with the **Tools → Manipulate SUP or VobSub** menu.

Alternatively, you can use the Command Line Interface (see corresponding chapter).

Command Line Interface (CLI)

Most of SubtitleCreator's functions can be accessed using the Command Line Interface. This allows power-users to use SubtitleCreator in their custom scripts. In order to know the available options, open a Command prompt and type SubtitleCreator -h. You will get the following screen that sums up the available options:



When an option is inside [], it means it is not mandatory.

Creating a SUP file:

- From a .srt or .sub (text) file:

SubtitleCreator test.srt [-p1] [-iVTS_01_0.IFO]

-p1 means use the first profile

-iVTS_01_0.IFO means use VTS_01_0.IFO to get the palette of the original DVD (This option is very important if you want your subtitles to be in the correct colors).

- From a VobSub file:

SubtitleCreator test.idx [-x2]

-x2 means that the stream with index 2 of the VobSub file will be extracted. The name of the output file will be constructed using the name of the idx file + "_" + language

string+“_0x” +HEX(the stream number +32). In the example’s case, it will be test_en_0x20.sup. No -x option means use the first stream found.

Creating a VobSub file:

- From a .srt or .sub (text) file:

```
SubtitleCreator test.srt -ven [-p1] [-iVTS_01_0.IFO] [-aMySub.idx]
```

-ven means that the output format is VobSub and that the language code for this stream is English (en) (use -vfr, for French, ...). This option is mandatory because without it, the output format is SUP.

-p1 means use the first profile

-iVTS_01_0.IFO means use VTS_01_0.IFO to get the palette of the original DVD (This option is very important if you want your subtitles to be in the correct colors).

-aMySub.idx means that the generated stream must be appended to the filename given here. If the file doesn’t already exist, it will be created. This option can be use to add some additional language streams to VobSub files. This option is only valid for VobSub files.

- From a SUP file:

```
SubtitleCreator test.sup [-ven] [-aMySub.idx]
```

-ven means the language code for this stream is English (en) (use -vfr, for French, ...). If it is not present, english will be used by default (en).

-aMySub.idx means that the generated stream must be appended to the filename given here. If the filename doesn’t already exist, it will be created. This option can be use to add some additional language streams to VobSub files. This option is only valid for VobSub files.

FAQ

- Where are SubtitleCreator's settings stored?
C:\Documents and Settings**User Name**\Local Settings\Application Data\SubtitleCreator\Settings.xml
 - Where are SubtitleCreator's profiles stored?
C:\Documents and Settings**User Name**\Local Settings\Application Data\SubtitleCreator\ Profiles.xml
 - When I create a VobSub subtitle (*.sub/*.idx), and use it with a software player they look fine but on my SAP (Stand Alone Player) they are shifting during playback.
This is a known bug that will be fixed some day. In the meantime you can use the following fix (found and described by FitzGerald here:
<http://forum.doom9.org/showthread.php?p=1007483#post1007483>):
- “...You have to make 2 sets of .idx+.sub files. One set is just the original timings. For the second set, convert the file from 29.97 to 30 fps. Take the original timings .idx and match it up with the .sub file from the "hacked" set to create a set that works on my SAP”.
- I can't start SubtitleCreator, I always get an exception at startup. What can I do?

It may be due to the fact that SubtitleCreator tries to open the last sub that you have open and that it has an error that causes an exception. To check if it is the case, find the file named C:\Documents and Settings**User Name**\Local Settings\Application Data\SubtitleCreator\MRU.txt and rename it to something else like MRUold.txt.

Try to open SubtitleCreator. If it is working, quit it, rename your file MRU.txt again and suppress its first line that points to a bad file.