

22 Performance Improvement

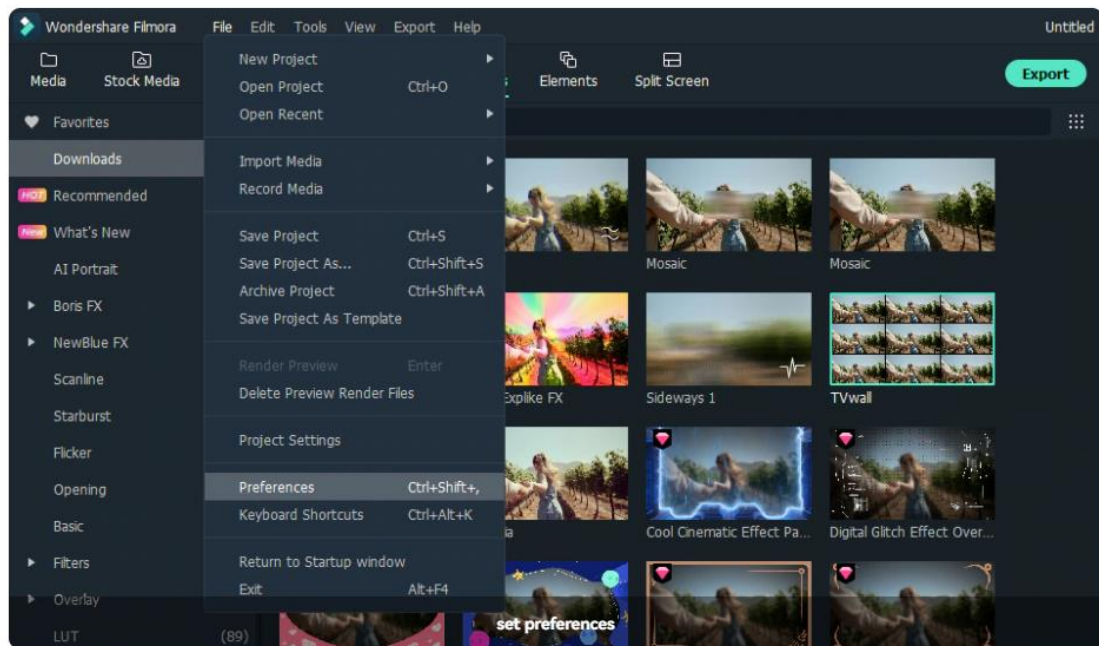
22.1 Set Preferences

Learn how to get the most out of Filmora by configuring preference settings for several things from appearance to folders, editing, and more.

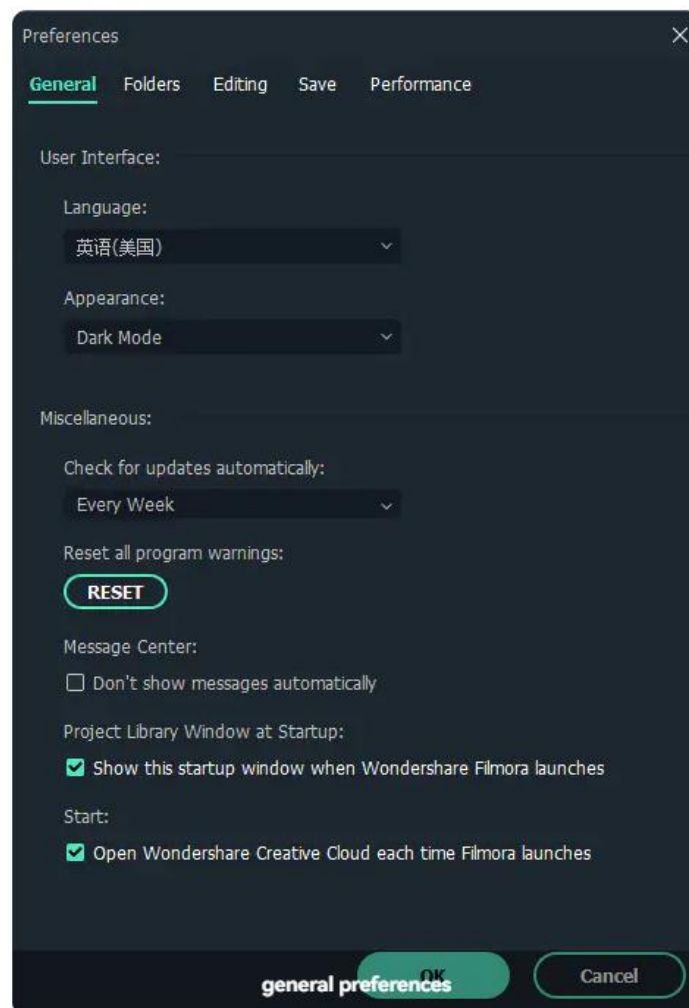
You can customize the look and behavior of Filmora, from determining the default length of transitions to setting the brightness of the user interface.

Most of these preferences remain in effect until you change them. The preferences you set for scratch disks, however, are saved with your projects.

Whenever you open a project, it automatically defaults to the scratch disks you selected for it when you set up that project.

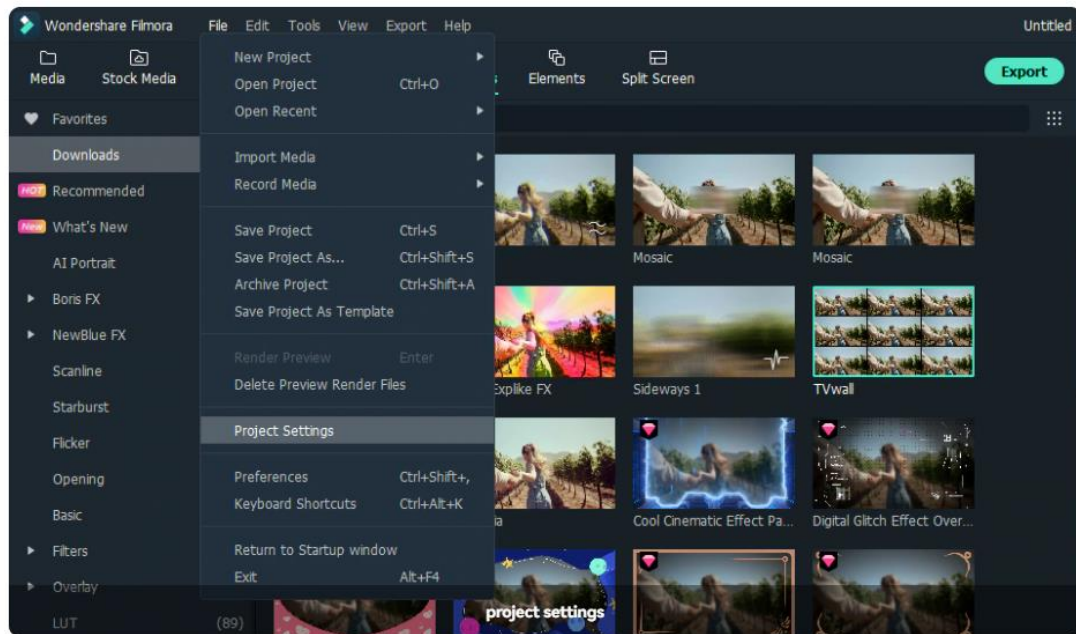


You can set up general, Folders, editing, save and performance as you want. When you finish setting, click ok to apply.

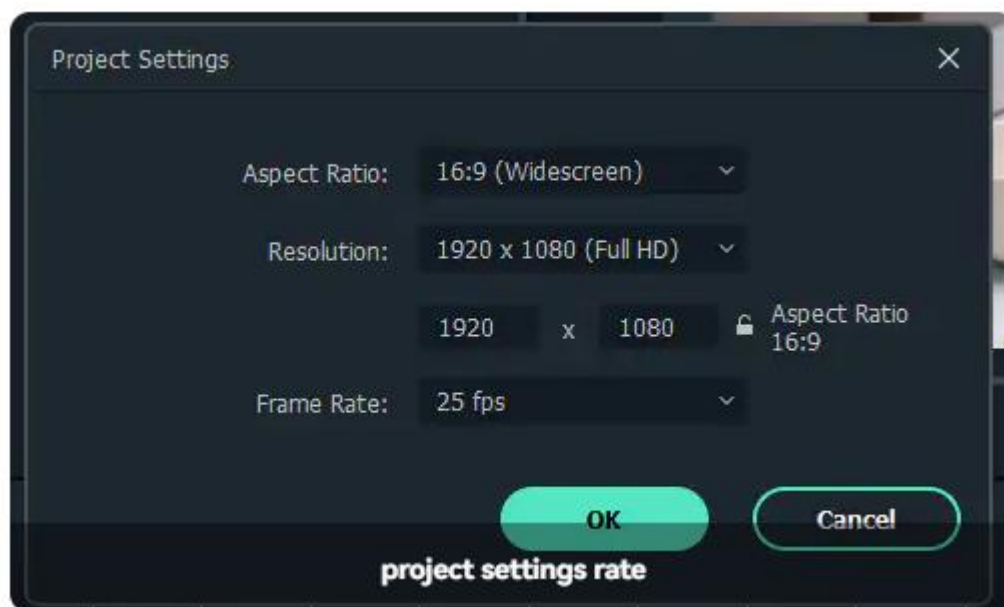


22.2 Project Settings

If you want to adjust the basic parameters before editing videos. You can view the top and find File-Project Settings.



Project settings includes aspect ratio, resolution, and frame rate. You can adjust the parameters you want.



22.3 Working with Proxies

Once all the video clips you'd like to use in your next video are transferred from the

camera to a computer and organized properly, you can start thinking about the most efficient way of piecing them together.

That's where the creation of proxy files comes in, as you don't have to work with the original size RAW files. Instead, you can create proxies that are significantly smaller than the video files your camera has captured and still export the video in the 4K or UHD resolution.

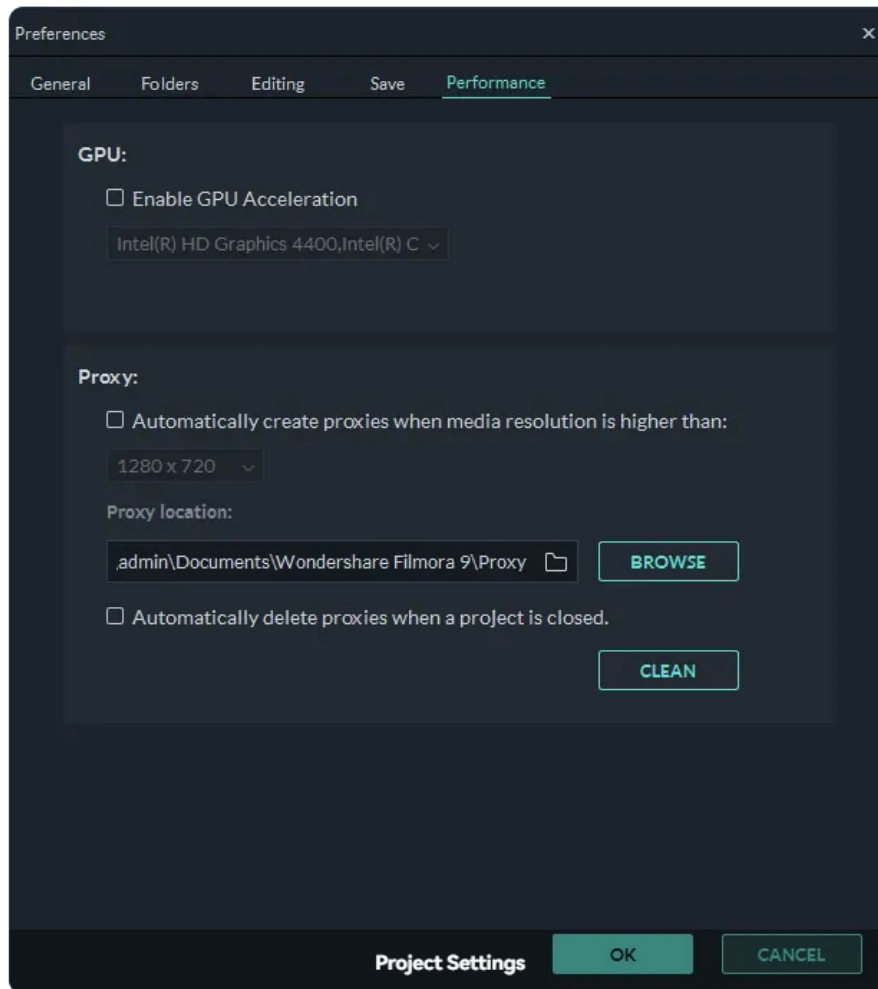
How Does a Proxy Work

- Proxy video editing is a great option if the computer you're using for editing has a modest amount of RAM or if its processor is not powerful enough to support the demanding tasks of applying complex visual effects.
- Even though proxy files can shorten the amount of time you need to spend in the editing room, this video editing technique is only useful in a particular context.

How to Create and Use Proxy in Filmora

Video content creators who often shoot their videos with action cameras and other devices that can record video in 4K resolution can easily create proxy files in Filmora.

- Install the software and create a new project.
- Head over to the File menu, and find Preferences option. Alternatively, you can use the CTRL+SHIFT+, keyboard shortcut to bring up the Preferences window and then click on the Performance tab.
- Click Enable GPU Acceleration option and Automatically create proxies when media resolution is higher than: option in the Proxy menu,
- Pick either 1280x720p or 1920x1080p resolution.
- You can also choose a folder on your computer's hard drive where all proxy media files are saved.
- In case you want to delete all proxy files you created after you've completed a project, you can enable the Automatically delete proxies when a project is closed option and then click on the OK button.
- Go to the Media Panel to start importing media files you'd like to use in your project and Filmora will automatically create proxies for each file that has a resolution that is higher than the resolution you've specified earlier.

**Note:**

Filmora is going to need to create proxy files depends on the size of source files and the number of files you are transcoding at the same time.

22.4 System Compatibility Detection

You may need to update your graphics drivers to run Filmora. Please keep your computer's graphics drivers updated to get the best performance out of your hardware.

Filmora for Win System Requirements

Operating System: Supported OS : Windows 7/Windows 8.1/Windows 10/Windows 11 (64 bit OS).

Processor: Intel i3 or better multicore processor, 2GHz or above.(Intel 6th Gen or

newer CPU recommended for HD and 4K Videos).

Memory: 4 GB RAM (8GB required for HD and 4K videos).

Graphics: Intel HD Graphics 5000 or later; NVIDIA GeForce GTX 700 or later; AMD Radeon R5 or later. 2 GB vRAM (4GB required for HD and 4K videos).

Disk: At least 10 GB free hard-disk space for installation (SSD-Solid State Disk recommended for editing HD and 4K videos).

Internet: Internet connection is necessary for software registration and access to online services like Filmstock.

Supported Input Formats

Type	Container formats
Video Formats	MPEG-1/2 Video file: (.mpg, .mpeg, .m1v, .m2v)
	MPEG-4 Video file: (.mp4, .m4v, .3gp, .3g2, .3gp2)
	QuickTime Movie File: (.mov encoded with MPEG 4 or MJPEG codec only)
	Camcorder File: (.dv, .mod, .tod, .mts, .m2ts, .m2t)
	Flash Video: (.flv, .f4v)
	Audio Visual Interleave (.avi)
	Matroska Video File: (.mkv encoded with MPEG 4 or MJPEG codec only)
	HTML5 Video File: (.mp4, .webm, .ogv)
	Non-encrypted DVD Titles: (.vob, .vro)
Audio Formats	.mp3, .m4a, .wav, .wma, .ogg, .flac, .aif, .aiff, .caf, .au
Photo Formats	.jpg, .png, .bmp, .gif, .tif, .tiff

Supported Output Formats

Type	Container formats or Device/SNS profiles
Format	Common video/audio .mov, .mp4, .m4v, .mkv, .avi, .f4v, .ts, .mpg, .3gp, ProRes, .m4a, .mp3, .gif
	4K .mov, .mp4, .m4v, .mkv,
Devices	iPhone, iPad, Apple TV, Apple TV 4K, iPods, Apple Generic, Android Generic, PlayStation, PSP
Social Network	YouTube, Vimeo
DVD	DVD disc, DVD folder, ISO disc image file

Note:

Some of the above codec formats may need to be supported by system.

Supported Effects & Plug-ins

Effects & Plug-ins
Filmstock Standard
NewBlue FX (Not available on Mac with M1 chip)
Boris FX (Not available on macOS v10.14 and Mac with M1 chip)
AI Portrait

22.5 Preview Render Files

Preview rendering reduces the preview lag which can occur when editing complex or high resolution projects.

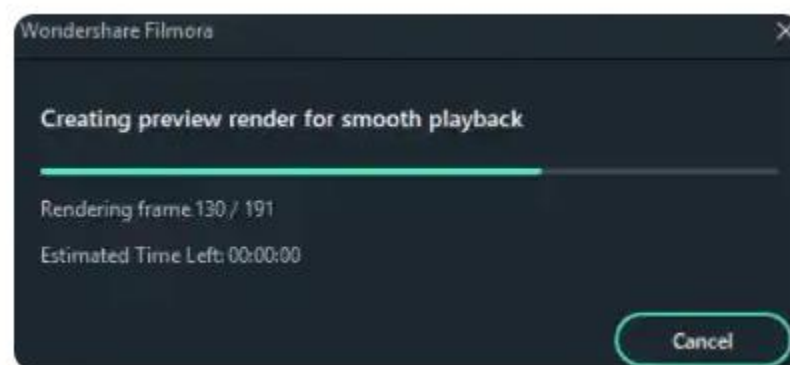
This results in smoother playback. Filmora offers 2 ways to render your timeline preview:

① Manual Render (The Render Button)

Click the Render Button to begin rendering your timeline whenever this red line appears (as when you add media or make other changes to your timeline).



The render preview window will pop up, showing the render progress and the estimated remaining time.



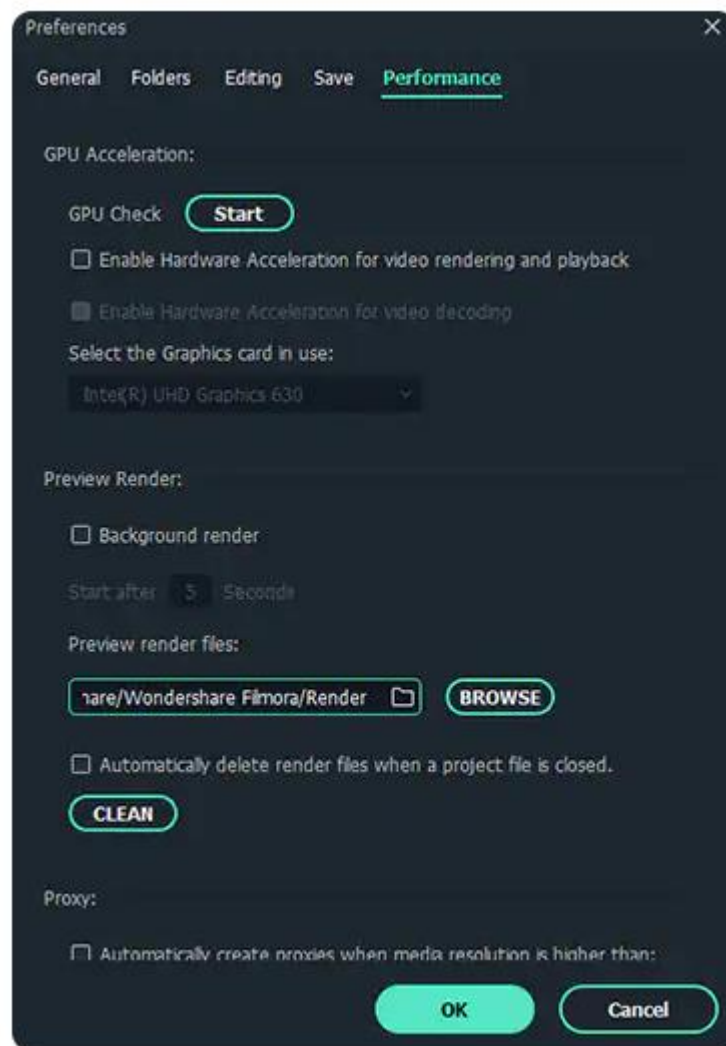
Once the rendering is complete, the red line will turn green.

Note:

You will need to wait until the rendering process is finished to continue editing.

② Auto-Render

- Besides manually clicking the Render Button, you can also use a feature called Background Render. If you enable it, your videos will be rendered automatically when you add your videos to the timeline for editing.
- You can go to File-Preferences-Performance, set a starting time and enable it.
- By default, the render process will be performed after 5 seconds of inactivity on the timeline.



- Click OK to save your settings.

Note:

The rendered parts of your timeline will be indicated by a green line. The line will be red for the un-rendered parts. Once you change, modify, or add effects to the

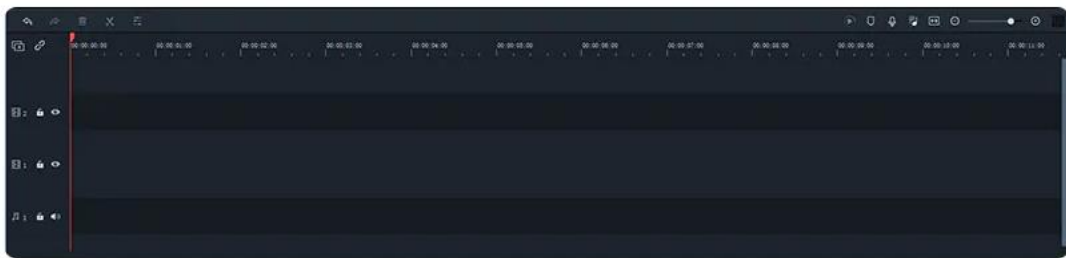
rendered section you'll notice the line turning red to indicate you need to render again.

22.6 Manage Timeline

The timeline is where the majority of the video editing process takes place. So, in this guide, we are going to learn how to add, adjust, lock and hide video and audio tracks in Filmora timeline panel.

① Using the timeline

The Playhead is an indicator that shows you where on the timeline you are currently located and allows you to move through the media files you placed on the timeline. The frame at which the Playhead is positioned is going to be displayed in the Preview window.



② Adjust Timeline View

As you hover over the area of the timeline that shows time with your mouse, the pointer is going to change into a two-way arrow. Move the mouse either to the left or the to the right while holding the left-click to zoom in or to zoom out of the timeline.

The Zoom to Fit the Timeline icon is located in the upper right corner of the timeline. Clicking on this icon will enable you to see all the media you've added to the timeline within a screen. Alternatively, you can use the zoom slider if you want to adjust the zoom level manually.

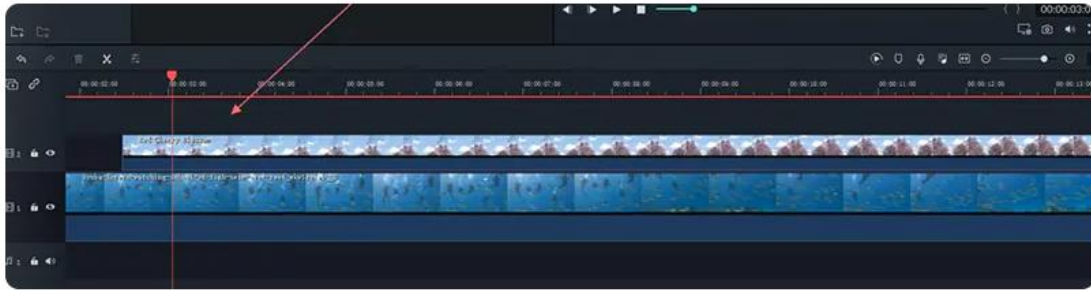
③ Adding Managing Tracks

A track is the part of the timeline where all the media is located. Tracks in Filmora9 can either hold video or audio files, and you should keep in mind that audio and video clips can never be on the same track.

Add One Track Each Time

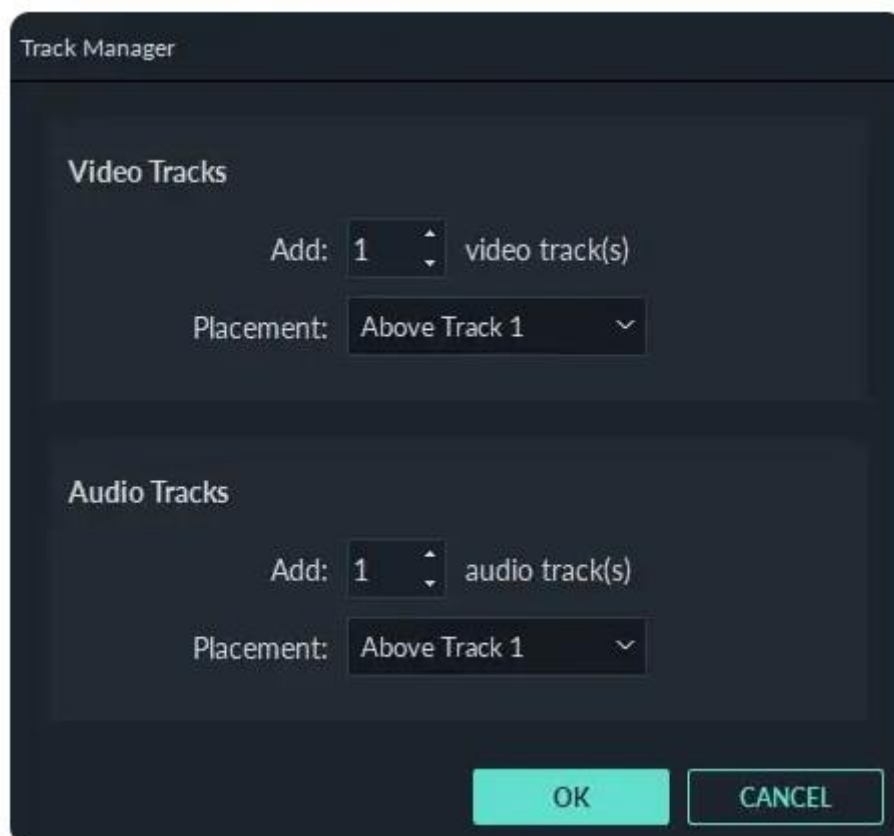
In order to create and add a new track you just have to drag and drop audio or

video file to a preferred location. Filmora9 will automatically create a new track for the elements dragged to timeline.



Add multiple tracks at the same time

- Click the Manage Tracks icon located in the upper left corner of the panel and a drop-down menu that lets you add new audio and video tracks or delete a track is going to appear on the screen.
- Click the Open Track Manager option and then you can add up to 99 video and audio tracks to a project from the Track Manager window. Moreover, the Placement drop-down menu lets you choose how the tracks are arranged.



- If you right-click on the section of the timeline below the Manage Tracks icon where the information about tracks is displayed, you can access each of these options from the right-click drop-down menu.

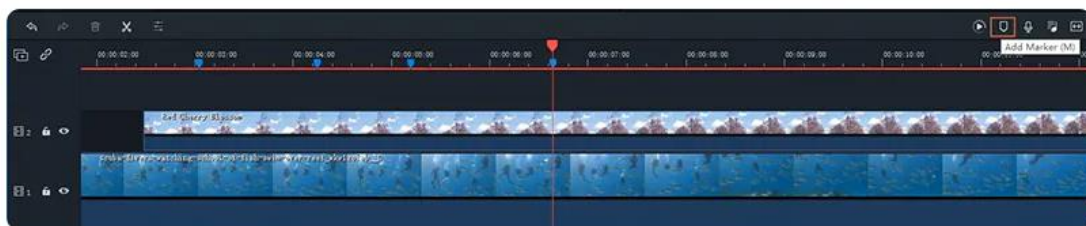
- Under the Manage Tracks menu, you can increase or decrease the size of the tracks from the Adjust Track Height submenu.

④ Hide & Lock Timeline

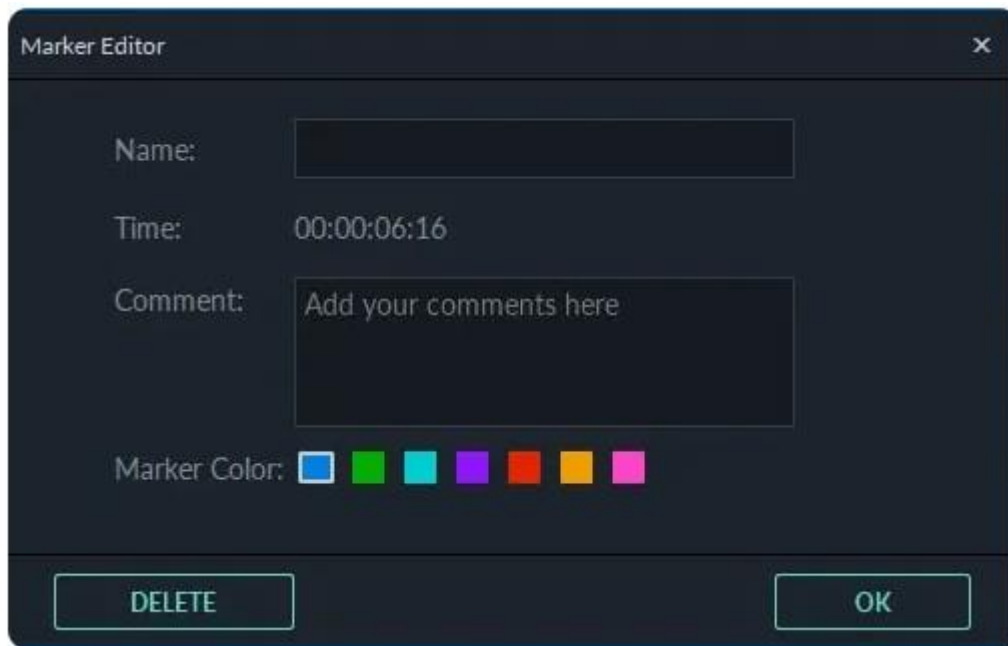
You can click on the Toggle Track Output icon that looks like an eye on a particular track if you want the media invisible. The Toggle Track Output option is depicted as the sound icon on audio tracks and it enables you to mute an entire track.



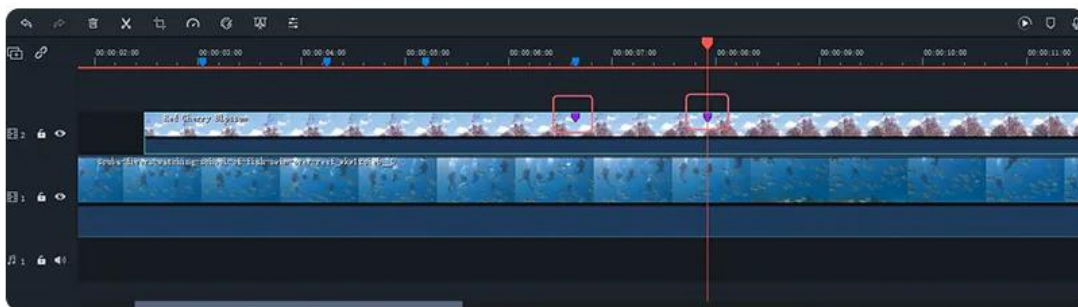
The Add Marker icon is located in the upper right corner of the timeline and after you click on it, a new marker will be added to the same location on the timeline where you placed the playhead.



Double-click on the marker you created if you want to gain access to the Marker Editor window where you can change the name or the color of the marker or add a comment.



If you would like to add a marker to a video clip you just have to make sure that the clip is selected and click on the Add Marker icon. Creating notes can be useful when working on large projects because you can use them to line up different types of media assets.



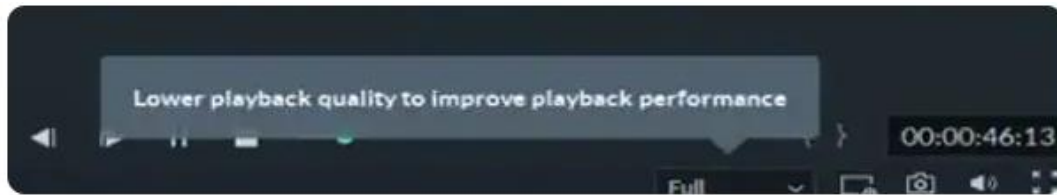
22.7 Change Playback Quality

You can adjust the playback quality of the Preview window for a smoother editing experience. For example, you can improve the performance of your preview by playing your video at a lower resolution than you want for your finished project or by creating proxy media files to edit with.

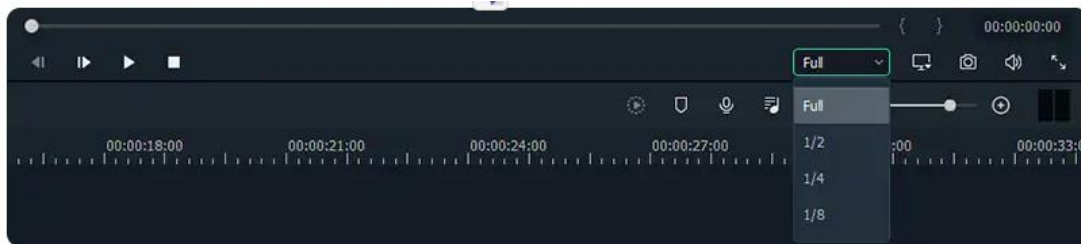
Note:

Proxy files are more manageable versions of your clips that are easier to edit with because they are smaller in terms of data (i.e. they are at a lower resolution). You can edit with a proxy file in Filmora, then export with your full-sized original clip.

If Filmora detects lags, it will prompt a message to ask you to lower playback quality.



Reducing your playback quality can eliminate lags and save you time. Click the playback quality control menu, and then choose from these options:



Full: preview your video without changing the original resolution

1/2: preview your video at 1/2 the original resolution

1/4: preview your video at 1/4 the original resolution

1/8: preview your video at 1/8 the original resolution

1/16: preview your video at 1/16 the original resolution

Note:

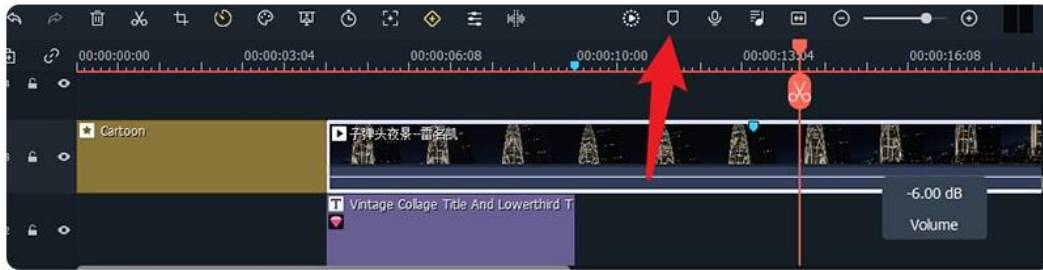
The reduced playback resolution only applies to the video preview and will not affect the export settings.

22.8 Mark Clip

Markers can be used either while you are recording or during the post-production, to help you mark the places in the footage where you've made a mistake, where the new take starts or to indicate a spot on the timeline where you would like to place a particular video clip.

How to Utilize Markers While You're Editing Videos with Filmora

- Add markers both to the timeline and the files on the timeline.

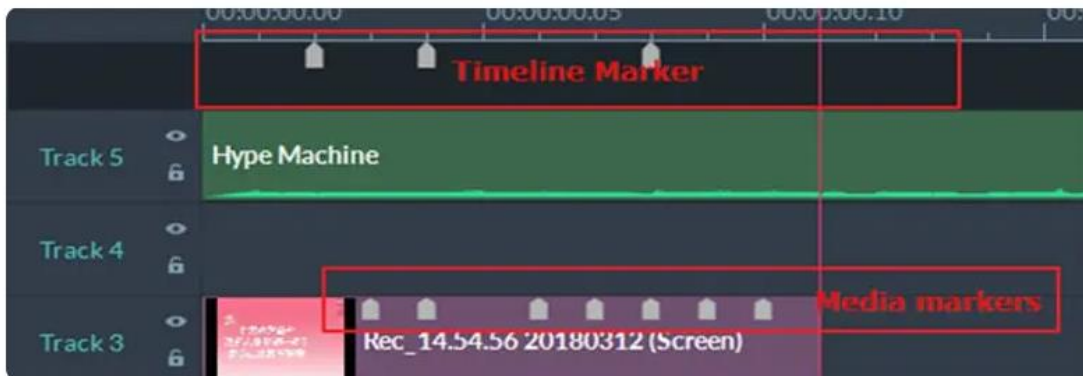


- Click the marker icon to mark any point in time.

Distinctions Between the Two Types of Markers

Media Markers:

- The media markers are the markers you can add directly to the video file.
- You won't be able to see these markers until the video clip is imported into the software's video editor and placed on the timeline.
- You can use them to mark a place you're not too happy with, or to highlight the part of the video clip that you intend on featuring in the final cut of the video you've created with Filmora.



Timeline Makers:

- The timeline markers, on the other hand, can only be added to a project during the post-production period.
- You can utilize them to highlight the parts of the video clip you want to remove from the final version of your video or to mark the spots on the timeline where you'd like to switch from one take to another.
- This type of marker is immensely useful if you want to organize the timeline in your project better and to know exactly where every clip you want to use in your video is located at all times.
- Besides being a highly efficient tool for organizing vast amounts of footage, timeline markers can also help you denote the beats in the audio file and then

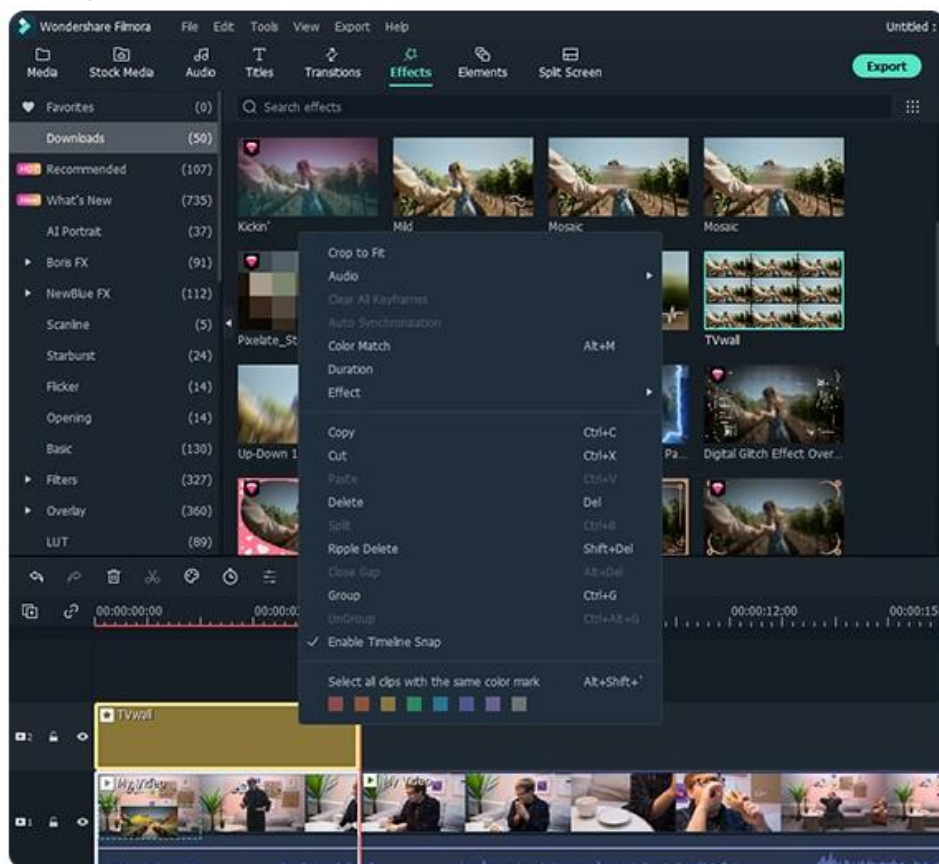
sync the video clip perfectly to the beat of the tune you're using as a soundtrack to your video.

22.9 Group Editing

Filmora allows you to link clips together as a group so you can move them without changing the positions relative to each clip within the group.

How To Group Clips

- To combine multiple clips into a group, hold the Ctrl key on your keyboard and click the clips that you want to group in the timeline.
- Then, right-click the clip and select Group from the context menu.



Ungrouping Clips

- To unlink your grouped clips, right-click one of the grouped clips in the timeline and select Ungroup.
- Besides using the group feature, you can now mark the clip in the same color. Currently, you can mark the clip with eight colors, including red, orange,

yellow, green, Cyan, blue, purple, gray and white.

- Right click on the clip and select the option Select all clips with the same color mark, all clip in the same mark will be selected automatically, and then you can drag them as a group.

