

Movavi Photo Studio



What do you need help with?

[Removing trial restrictions](#)

[Quick start](#)

[Editing photos](#)

[Batch editing](#)

[Creating slideshows](#)

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Quick start guide

Movavi Photo Studio is a set of useful tools for easy photo processing. When you start Movavi Photo Studio, you will see a launcher app that you can use to start and activate the photo applications. Click on an application name to launch the app.



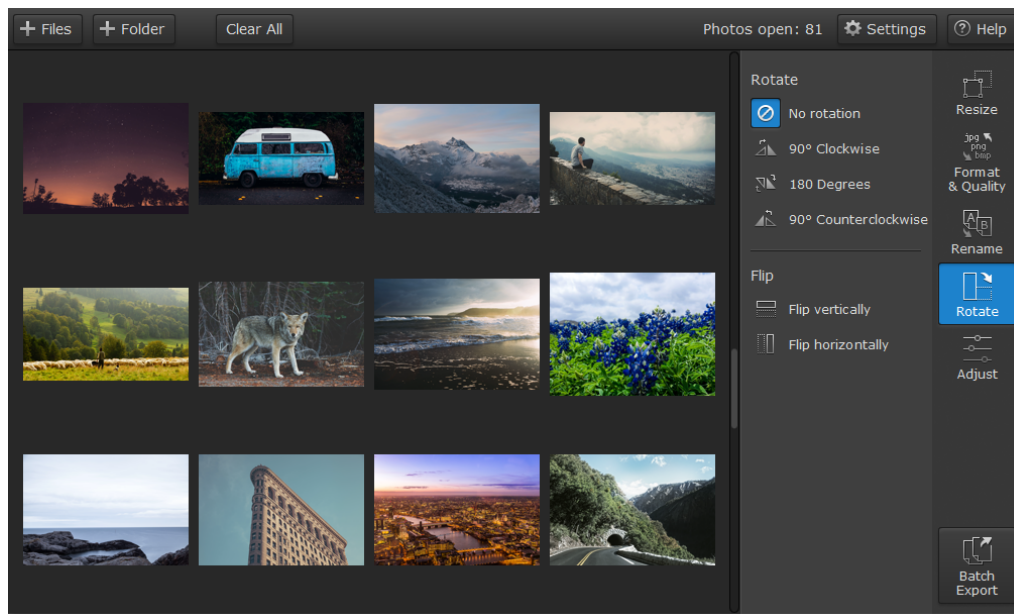
Step 1: Prepare photos using Photo Batch

If you have lots of photos, you can start by organizing all of them at once.

Use Movavi Photo Batch for multiple photo processing:

- [Resizing multiple photos](#)
- [Converting photos](#)
- [Customizable photo renaming, adding date and time](#)
- [Batch and individual photo rotating](#)
- [Fully automatic image enhancements](#)

[Detailed Photo Batch instructions](#)



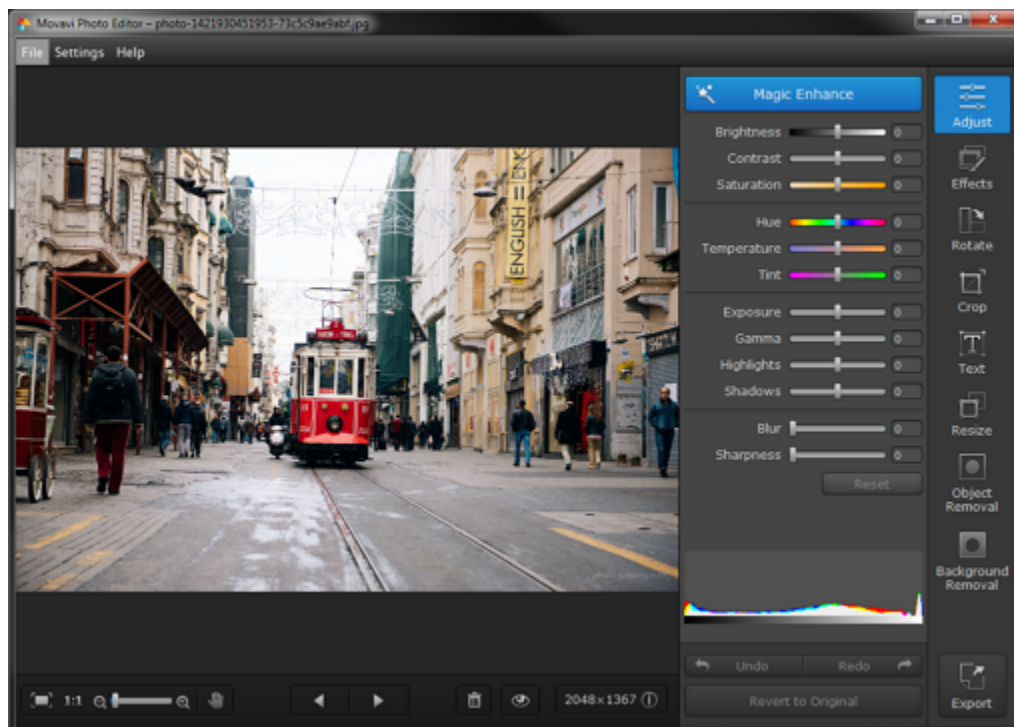
Step 2: Edit individual photos in Photo Editor

After you've organized all of the photos, it's time to bring out the best in each photo with individual editing. Open the photos in Movavi Photo Editor to retouch defects, remove unwanted objects, adjust colors, and more.

Use Movavi Photo Editor for all your basic photo editing needs:

- [Removing unwanted objects from photos](#)
- [Image adjustments and auto-enhancements](#)
- [Rotating, cropping](#), and [resizing](#) images
- [Adding text captions](#)
- [Removing and replacing backgrounds](#)

[Detailed Photo Editor instructions](#)



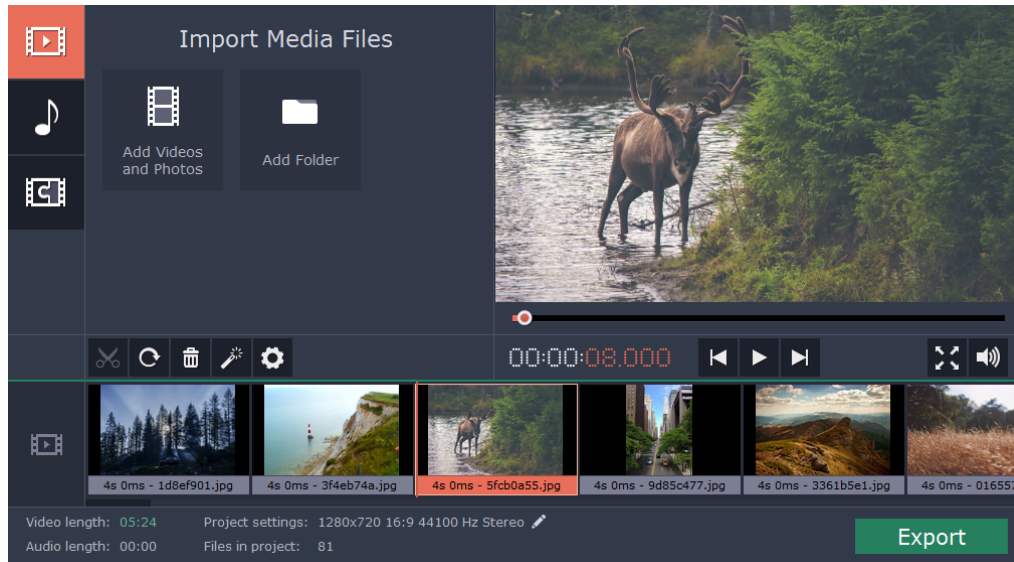
Step 3: Create a slideshow

What's a better way to show off your cool vacation photos than to make an animated slideshow. Organize your photos into a storyboard, set the tone with background music, join the clips with transitions, and export the finished slideshow to share it with your friends.

Create a slideshow in just a few steps:

- [Create a project](#)
- [Add photos and videos](#)
- [Edit slides](#)
- [Add music](#)
- [Join clips with transitions](#)
- [Save the slideshow](#)

[Detailed Slideshow Creator instructions](#)






Trial and activation

When you first install Movavi Photo Studio, all of its apps will be running in LIMITED TRIAL MODE. Trial Mode allows you to try all of the features of the full version before you decide to buy it. After you buy Movavi Photo Studio, you can activate all of the modules at once.

Limitations

In Trial Mode, the applications will have the following limitations:

| | LIMITED TRIAL VERSION | FULL VERSION |
|---|--|---|
|  Movavi Photo Editor | ✗ Saving photos is disabled | ✓ Save as many photos as you like |
|  Movavi Photo Batch | ✗ You can only process up to 100 photos | ✓ Process your entire photo library |
|  Movavi Slideshow Creator | ✗ A trial version watermark is applied to all videos ✗ Trial expires after 7 days | ✓ No watermark ✓ Lifetime license ✓ Free updates ✓ Free tech support for all your questions about photo and video ✓ Discounts on other Movavi products and upgrades |

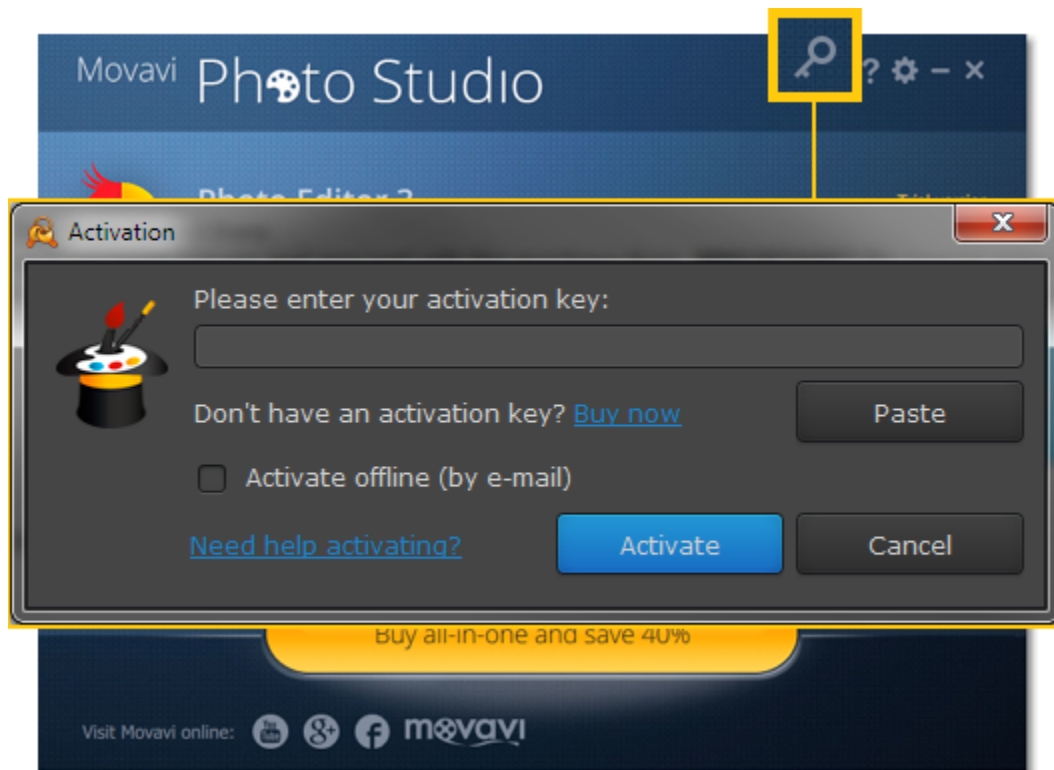
Step 1: Buy activation key

1. Click the button below to go to the purchase page and click the **Buy Now** button there.
2. You will be taken to our web store. Fill in your billing information and payment options and proceed with the purchase form. **IMPORTANT!** Be sure to enter a valid e-mail address: it will be used to deliver your activation key.
3. Once you have placed your order, you will shortly receive a confirmation for your order and an e-mail from support@movavi.com containing your activation key.

[Buy Activation Key](#)

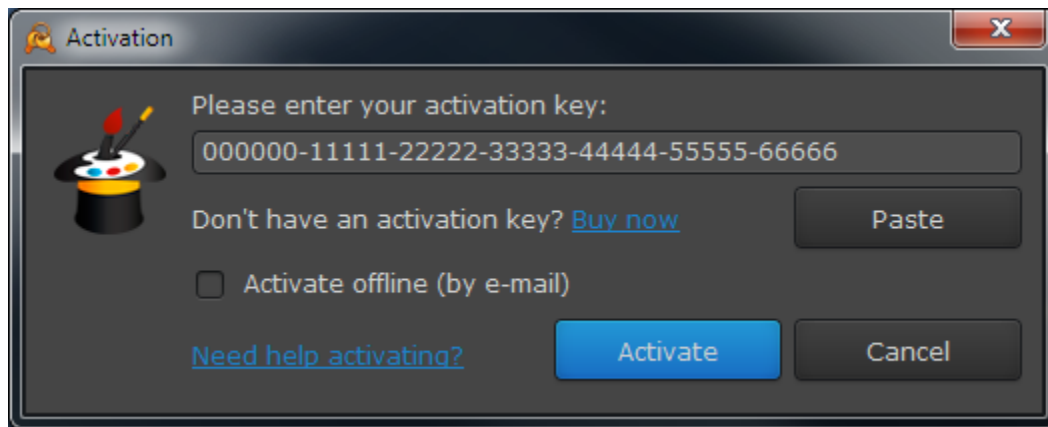
Step 2: Open the activation window

On the Movavi Photo Studio launcher, click the **key icon**, or open the **Help** menu in *any* of the Photo Studio apps and choose **Activate Software**.



Step 3: Enter your activation key

1. Enter or paste your activation key into the corresponding box of the Activation window.
2. Click **Activate** to verify your activation key. This requires an Internet connection to verify the key. If you don't have a connection, you can use [offline activation](#).



If you have entered the key correctly, you should see a message confirming successful activation. Click **OK** to complete the activation process and restart the program.

Having problems with activation?

If activation is not working as expected, try the following:

- Make sure that the activation key is entered correctly and is intended for your version of Movavi Photo Studio.
- Try activating [offline via e-mail](#).
- Contact us at support@movavi.com and we'll help you solve the problem!

Activating without Internet access

Activation needs an Internet connection to verify the key. If the computer that you have installed Movavi Photo Studio on is not connected to the Internet, you can activate the program via e-mail from any other computer or device.

[Detailed instructions](#)

Getting an activation key

You can get an activation key either from our official website or from any of our partners in your region. Follow the steps below to buy an activation key from the Movavi website:

Step 1: Go to the purchase page

To open the purchase page for Movavi Photo Studio:

- In the Movavi Photo Studio launcher, click the '**Buy all-in-one and save 40%**' button
- Or open the **Help** menu of any module and choose **Buy Activation Key**.
- Or [click here](#) to open the purchase page



Step 2: Choose a license type

- If you plan to use Movavi Photo Studio at home, click **Buy Now** on the purchase page to proceed with buying the personal license.
- If you plan to use Movavi Photo Studio at work, in a government institution, or gain profit in any way, click **Business license** on the purchase page.



After that, you will be redirected to an online store depending on your region and the available payment methods. All of our vendor partners are secure and completely safe.

Step 3: Fill in your billing details

1. Choose any of the available payment methods.
2. Fill in the information required on the page.
3. Enter a valid e-mail address. This e-mail will be used to deliver your activation key.

Step 4: Get your activation key

After the purchase has been verified, you will receive a letter containing your activation key. Now you can use it to activate the program.

[Activation instructions](#)

[Activating without Internet access](#)

If you haven't received your activation key within the hour:

- Check the **Spam** folder of your mailbox
- [Contact support](#)

Activating Photo Studio

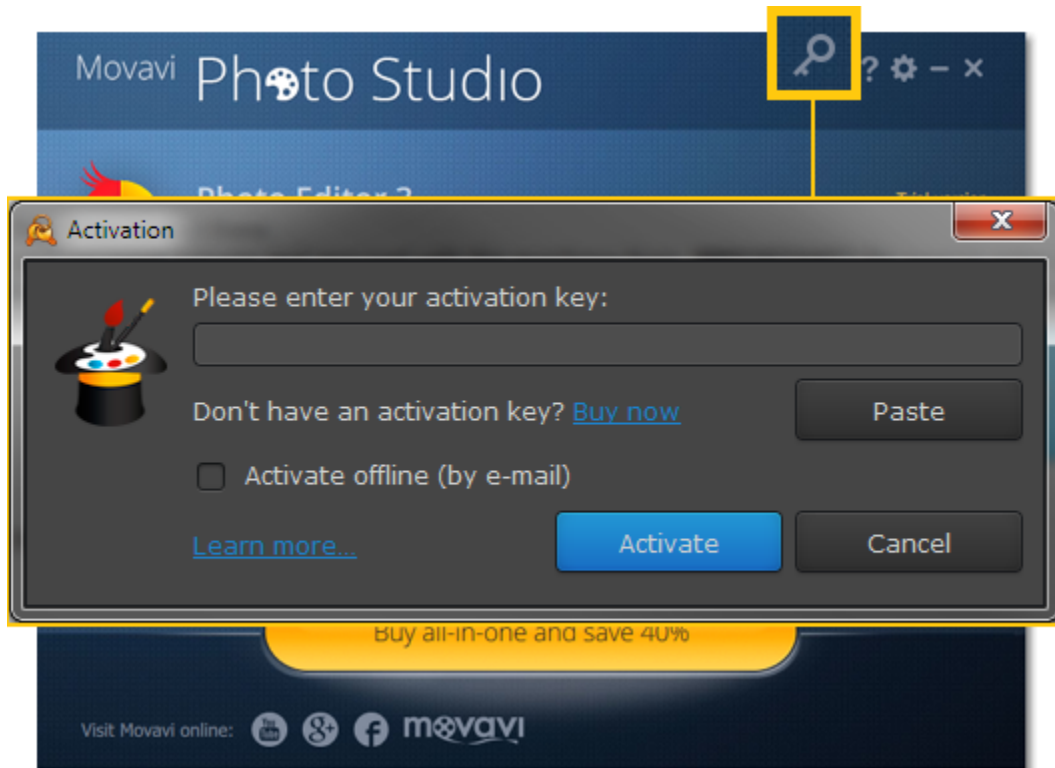
Before you activate Movavi Photo Studio, all the apps will be running in LIMITED TRIAL MODE. By activating Movavi Photo Studio, you can remove the trial restrictions and use the apps to the fullest! You will only need to activate all the modules once.

You will need:

- Movavi Photo Studio activation key. You should receive your key via e-mail right after your purchase is completed. Don't have a key? [Buy now](#)
- Internet access to verify the activation key. Don't have Internet access? [See this guide on offline activation](#)

Step 1: Open the activation window

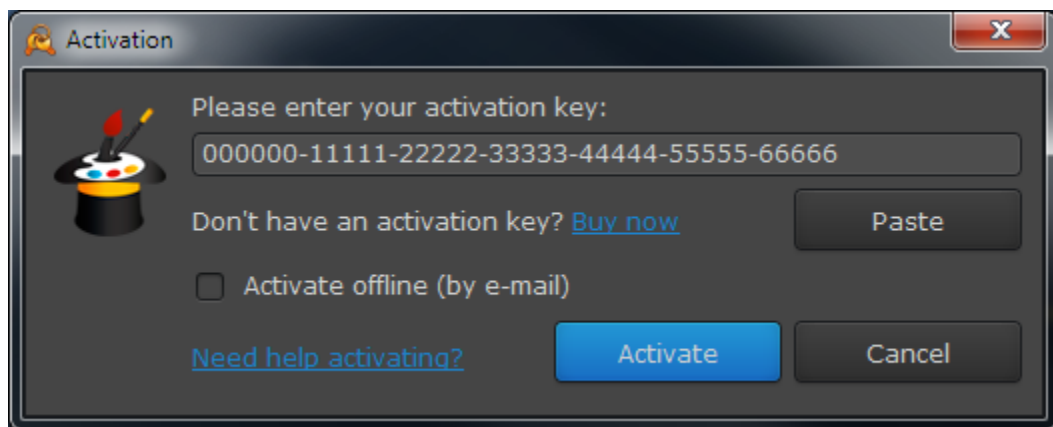
1. Launch Movavi Photo Studio.
2. Click the key icon at the top of the window.



Step 2: Enter your activation key

1. Enter or paste your activation key into the corresponding box of the Activation window.
2. Click **Activate** to verify your activation key.

This step needs an Internet connection to verify the key. If this computer is not connected, you can use [offline activation via e-mail](#).



If you have entered the key correctly, you should see a message confirming successful activation. Click **OK** to complete the activation process and restart the program.

If online activation fails, try the following:

- Check that the activation key is entered correctly and is intended for the module you are activating.
- Make sure you have administrator rights on your computer.
- Try disabling your computer's firewall and antivirus software.
- Try [offline activation](#).

If you have any questions or problems while activating your Movavi software, please don't hesitate to [contact our support team](#).

Activating without the Internet

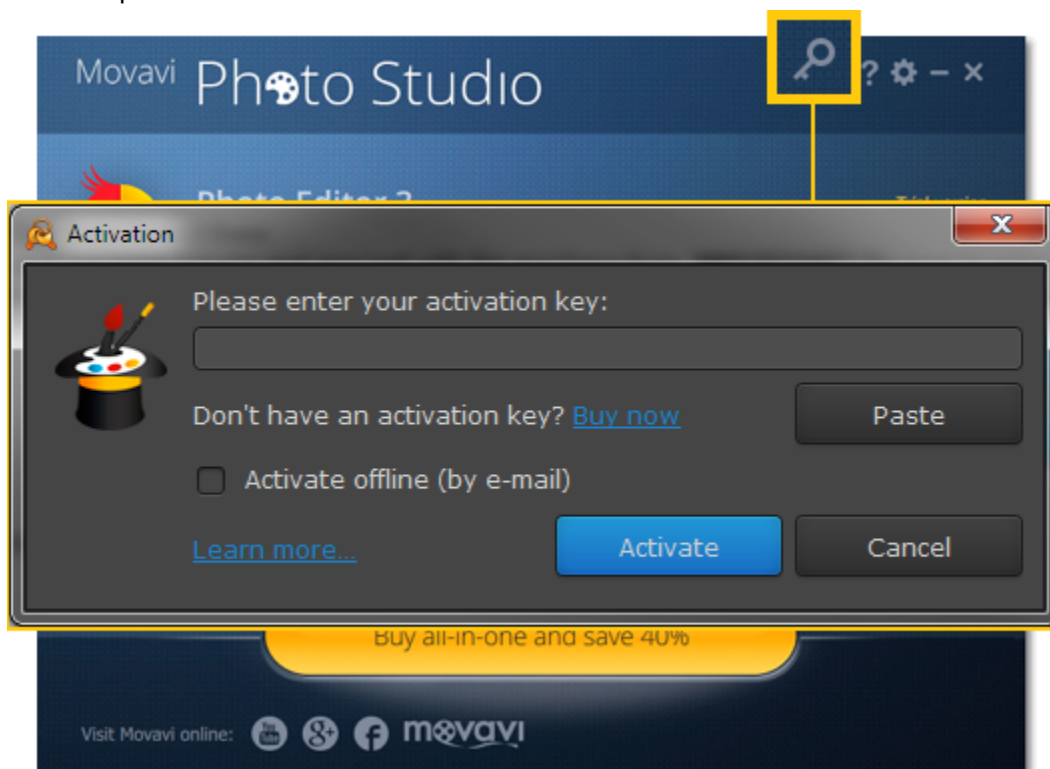
Activation requires Internet access to verify your activation key. If you don't have a working Internet connection on the computer that Movavi Photo Studio is installed on, you can activate the program via e-mail using any other computer or device. You will be asked to send us an automatically generated e-mail and then enter the reply into the program's Activation window.

You will need:

- Movavi Photo Studio activation key. You should receive your key via e-mail right after your purchase is completed. Don't have a key? [Buy now](#)
- A device or another computer that can be used to send and receive e-mail

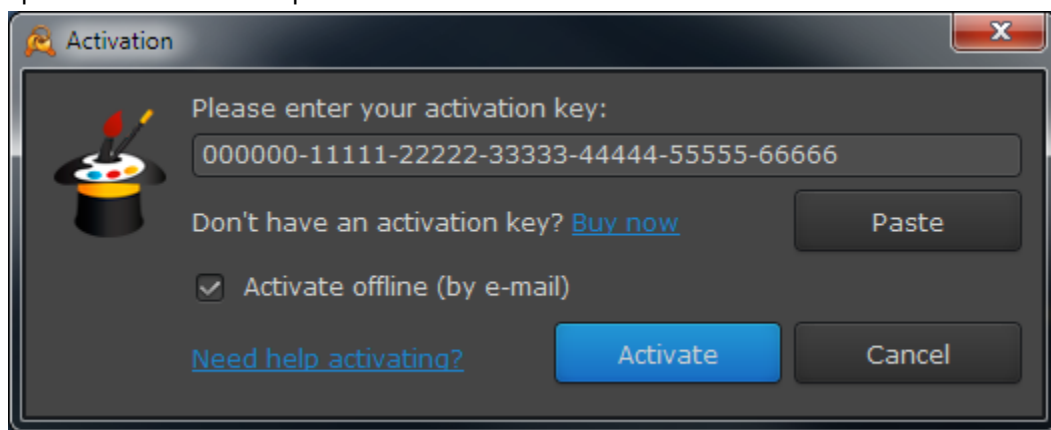
Step 1: Open the activation window

1. Launch Movavi Photo Studio.
2. Click the key icon at the top of the window.



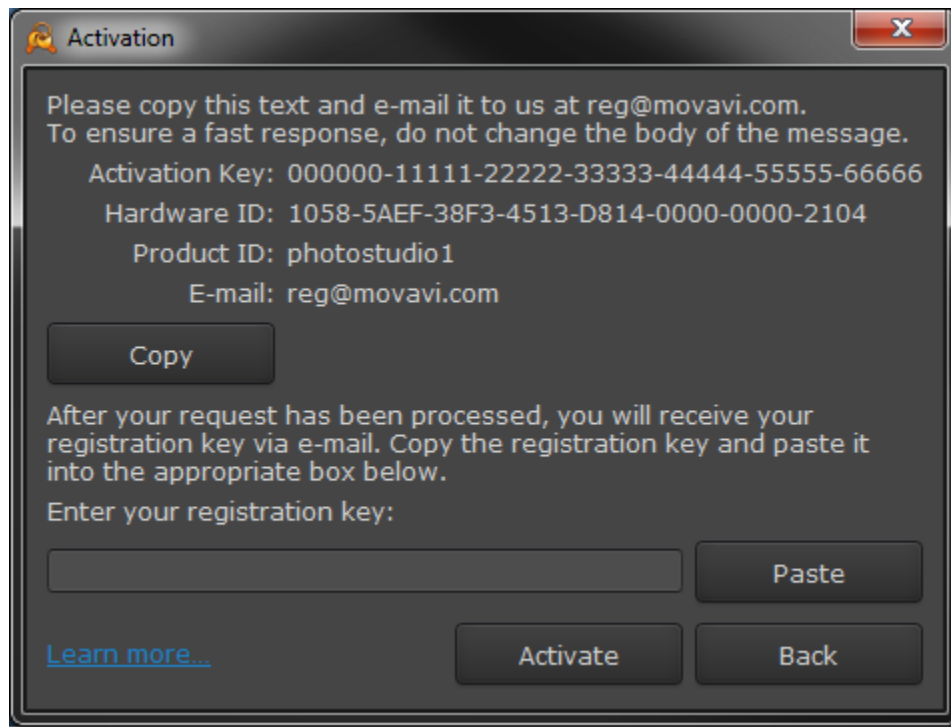
Step 2: Enter the activation key

1. Enter or paste your activation key into the corresponding box of the Activation window.
2. Select the **Activate offline** option.
3. Click **Activate** to proceed to the next step.

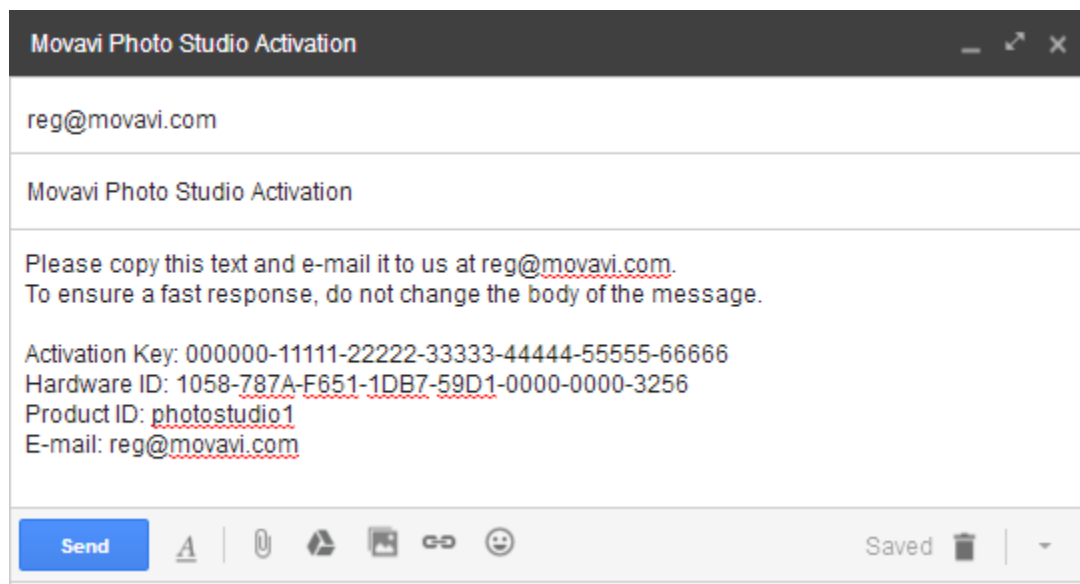


Step 3: Send an e-mail with the provided information

The next window contains important activation information that you will need to send us via e-mail to reg@movavi.com in order to activate your program.

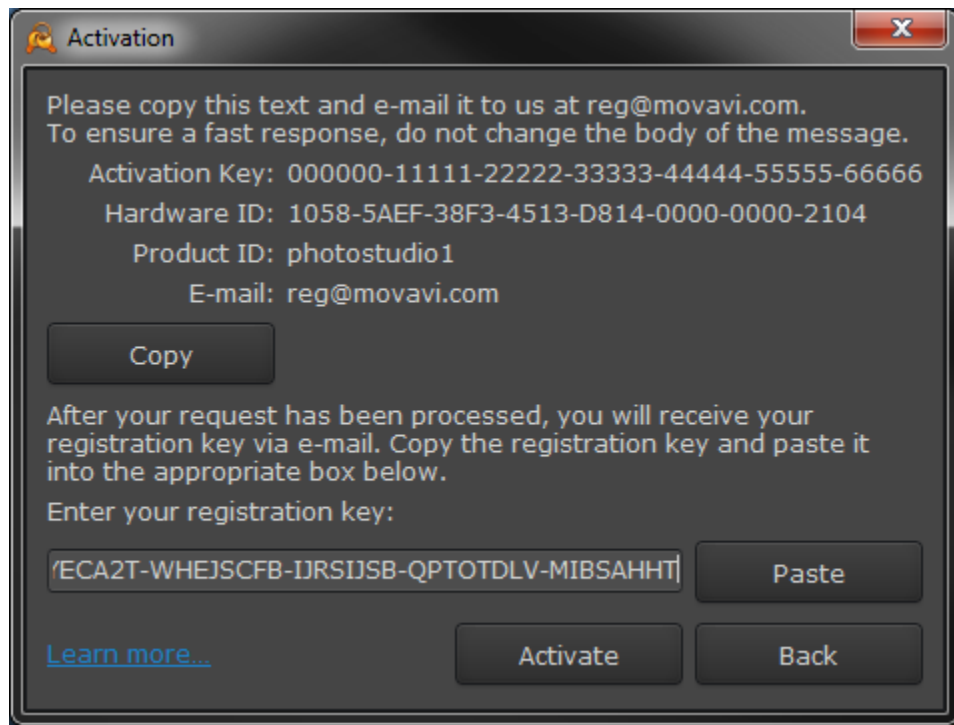


1. Click the **Copy** button to copy the information in the window. If necessary, save or transfer this information to the computer or device that you will be sending the e-mail from.
2. On the computer with an Internet connection, open your mail client and compose a new e-mail. Paste the information you've copied earlier into the message body and send this e-mail to reg@movavi.com. The activation server will then verify your activation key and send you an automatic response containing a **registration key**, which you will need to enter into the **Activation** window. You should receive the server's reply within an hour.



Step 4: Enter your registration key

1. When you have received your registration key, save it and go back to the Activation window.
2. Enter the registration key into the corresponding box.
3. Click **Activate** to submit the information.



Once activation is complete, you may be asked to restart the application.

If you're having problems with offline activation:

- Make sure that the keys are entered correctly and are intended for your version of Movavi Photo Studio.
- Make sure you have administrator rights on your computer.
- [Contact our support team](#)

Photo Studio Launcher

The Photo Studio Launcher is your all-purpose photo editing portal. Use the Launcher to start the app you need, and to activate or update all of the apps at once.

Launch apps

To start an app, click on its name in the launcher:

[Photo Editor](#) – edit individual photos, apply effects, add text, remove objects and cut out backgrounds.

[Photo Batch](#) – resize, crop, rename, and convert entire photo albums at once.

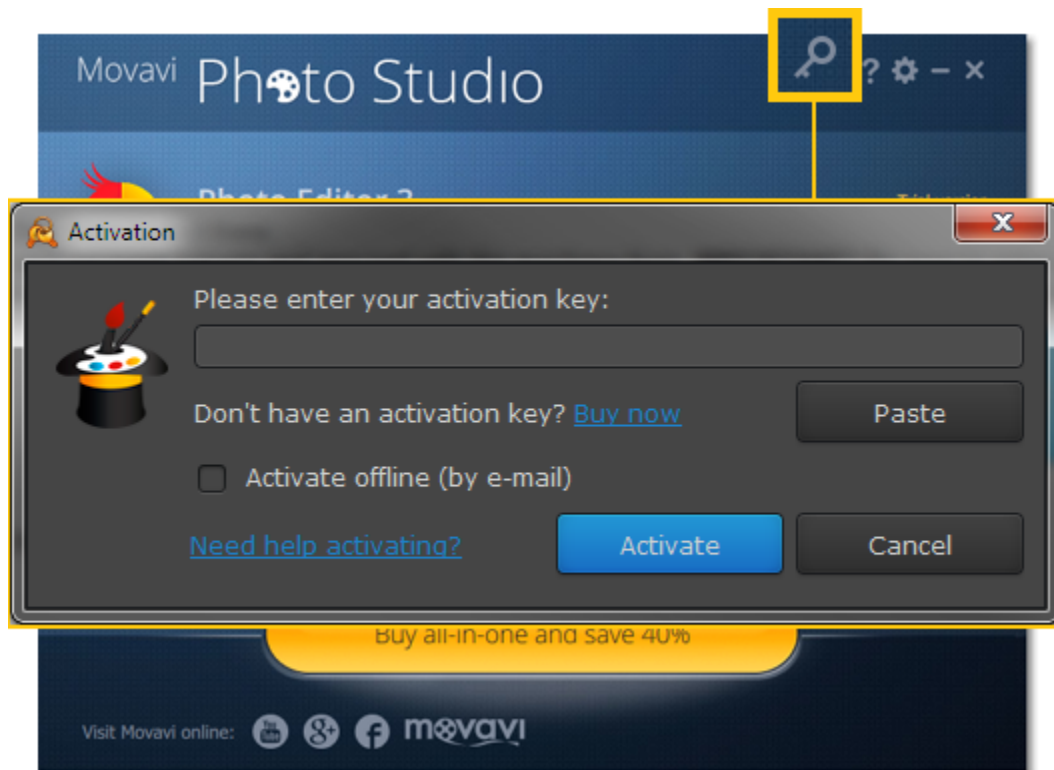
[Slideshow Creator](#) – join your photos into an animated slideshow with transitions and music.



Activating Photo Studio

If you see the words '**Trial version**' next to your apps, it means that some features of the program are restricted until you buy and activate Photo Studio. To activate Photo Studio:

1. Click the key icon at the top of the window.
 2. The Activation dialog box will open. Enter your activation key into the box. If you don't have a key, click the **Buy now** link in the dialog box and purchase an activation key from our website using any of the available secure payment methods.
 3. Click **Activate**. You may then need to restart the application.
- [Detailed instructions on activation](#)
[Detailed instructions on activation without the Internet](#)



Updating Photo Studio

If you have automatic updates enabled, you will be notified whenever you can get a newer version. To manually update Photo Studio:

1. Click the question mark icon to open the Help menu.
2. In the Help menu, click **Check for Updates**. The 'Check for updates' window will open. Here, you can see if a new update is available, read what's new, and download the new version.
3. If a new version is out, click **Download** to get the new version. The Photo Studio page will open, and the download will begin automatically.
4. Once the download has finished, close Photo Studio if it is still running. Then, run the installation file and follow the wizard instructions to install the new version.

[Detailed instructions](#)



Updating apps

Installing Movavi Photo Studio

To get all of the included photo editing applications, all you need to do is install the Movavi Photo Studio launcher app:

1. Click the button on the right to download the Movavi Photo Studio installation package from the official Movavi website.
2. Run the downloaded file and provide administrator permissions for installing the file. Then, follow the on-screen instructions to install the software. During installation, you will be asked to provide a folder to install Photo Studio and its included applications. We recommend that you check that the selected disk has enough disk space.
3. When installation has finished, the Movavi Photo Studio launcher will open, providing access to all the photo editing modules.

Download Studio

Updating Photo Studio

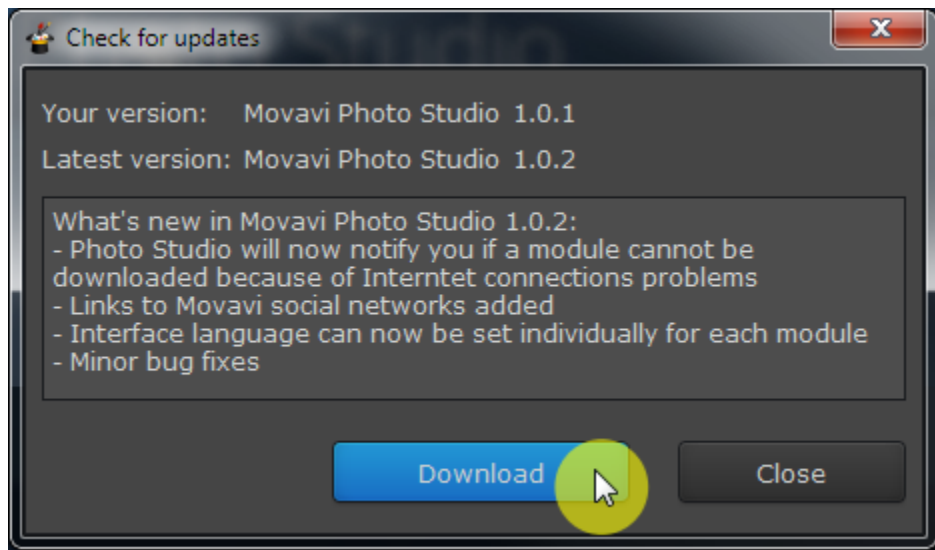
Movavi Photo Studio will notify you whenever a module can be updated to a newer version (the update notification can be disabled in [settings](#)). To update Movavi Photo Studio and all of its apps:

1. In the Photo Studio launcher, click the **question icon** at the top to open the Help menu.
2. In the Help menu, choose **Check for Updates**. The update window will open.



3. In the update window, you can see if a new version is available and read what's new. If a new version is out, click the **Download** button to get the latest version.

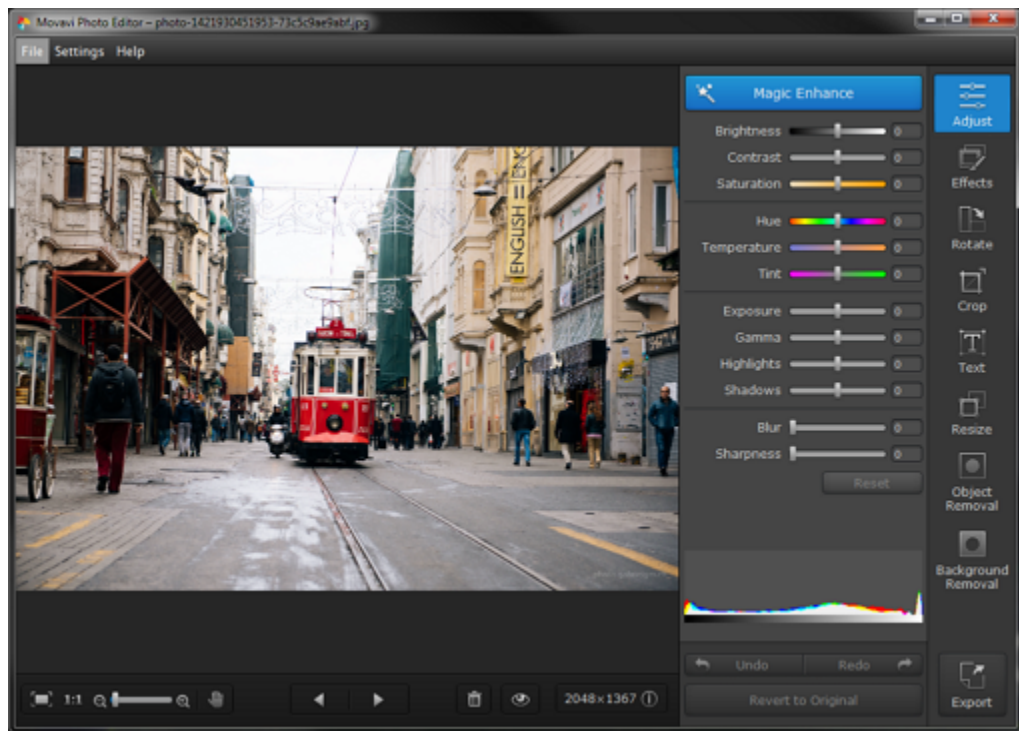
Minor updates (versions after the decimal point, i.e. 1.0.1 to 1.0.2 and 1.1) are absolutely free. Major version upgrades (i.e. version 1.0 to 2.0) are offered at a discount and you can try the new version before you decide to upgrade.



4. The Movavi Photo Studio download page will open, and the download will begin automatically. Meanwhile, close Photo Studio and any of its apps if they are running.
5. After the download has completed, run the downloaded file and follow the on-screen instructions to install the new version. You may need administrator permissions to install the update.

Photo Editor

Using the Photo Editor, you can enhance and edit individual photos, apply cool effects, add text, erase backgrounds and unwanted objects, and more.



Don't know where to begin?

[Read the Quick start guide!](#)

Basics:

[Opening images](#)

[Saving images](#)

Editing tools:

[Rotating photos](#)

[Cropping photos](#)

[Resizing photos](#)

Creative tools:

[Adjusting photos](#)

[Adding effects](#)

[Adding text](#)

[Erasing objects](#)

[Cutting out backgrounds](#)

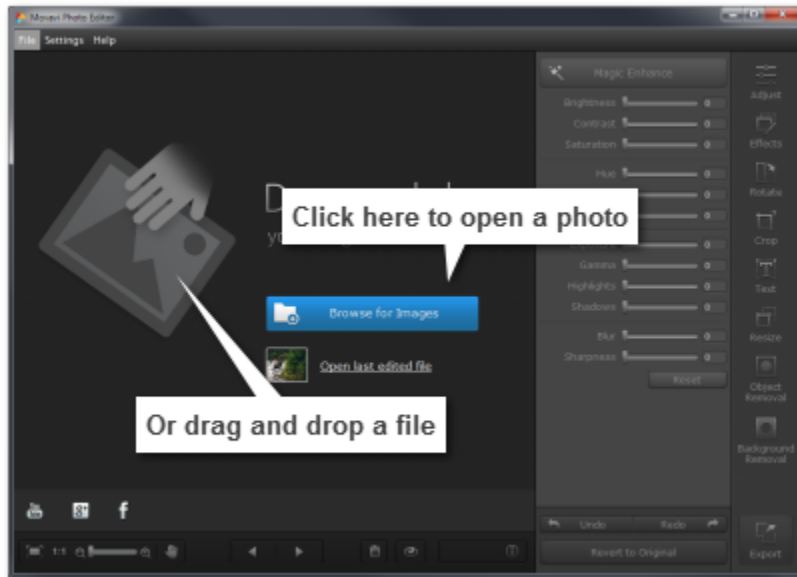
Editing photos

Movavi Photo Editor is a versatile photo editing tool that can help you easily fix and enhance your photos and images.

Step 1: Add a photo

Drag and drop a photo from Windows Explorer onto the Photo Editor window, or click the **Browse for Images** button to open a photo.

[Opening images](#)

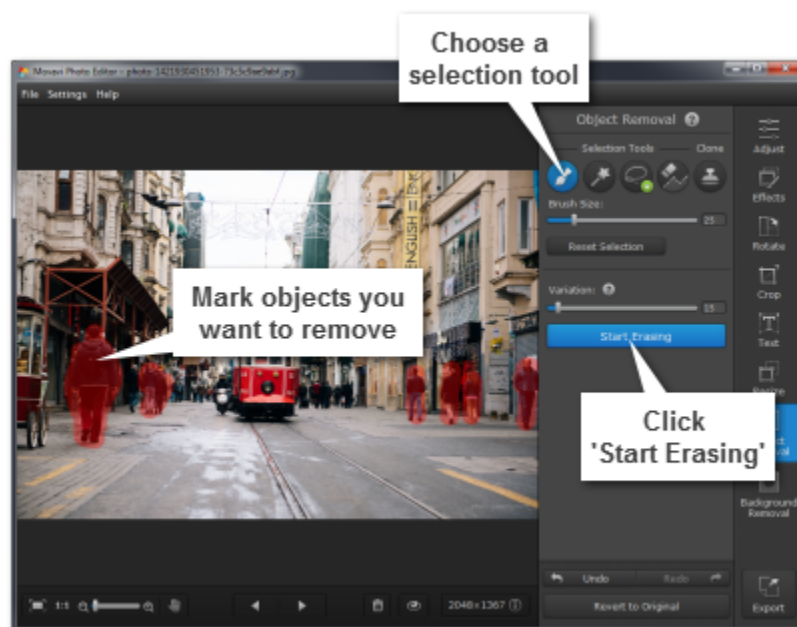


Step 2: Erase unwanted objects

With Movavi Photo Editor, you can remove stray objects or strangers from photos:

1. Click the **Object Removal** tab on the right to show the relevant options.
2. Choose a selection tool, e.g. a brush
3. On the image, mark the objects you want to remove.
4. Click **Start Erasing** to remove the selected objects.

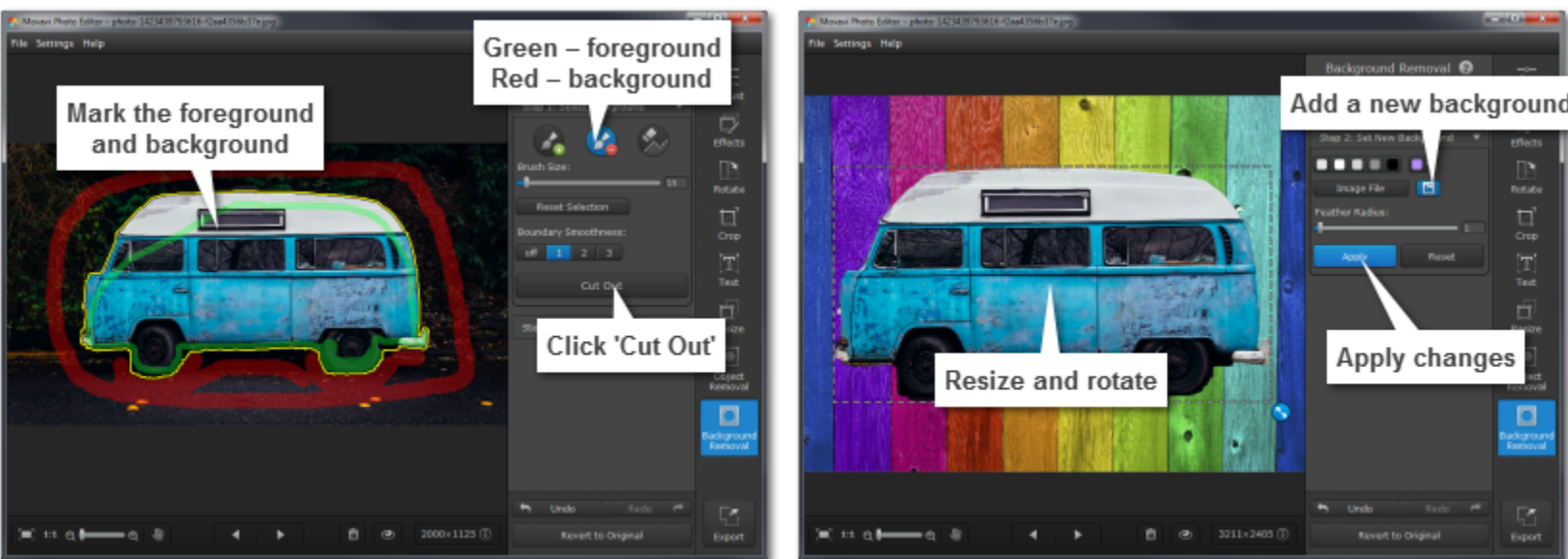
[Erasing objects](#)



Step 3: Remove and replace the background

1. Switch to the **Background Removal** tab.
2. Choose the green brush and paint a few strokes inside the foreground object.
3. Then, choose the red brush and paint a few strokes outside the object, marking the background that will need to be removed.
4. Photo Editor will then calculate the object's outline based on your selection. If it is not correct, add a couple more strokes of each brush in problem areas and the outline will be adjusted automatically.
5. Click **Cut Out** to remove the background.
6. Now, you can choose the new background. You can keep a transparent background, fill the background with a color, or import your own background image. Drag the object's frame inside the image to rotate and resize it relative to the new background.
7. Click **Apply** to finalize the changes.

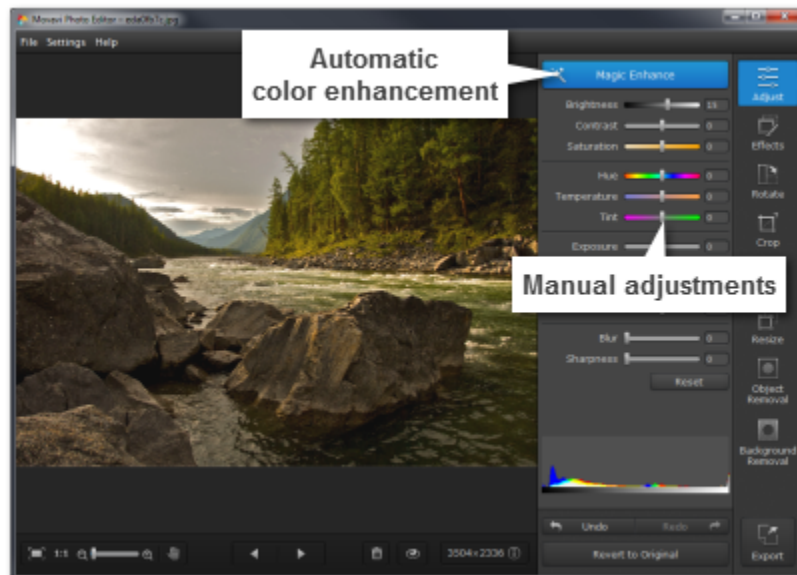
[Erasing backgrounds](#)



Step 4: Enhance and adjust the image

1. Switch to the **Adjust** tab
2. Use **Magic Enhance** for an instant color and contrast adjustment
3. If you want to add a creative touch to the photo, you can manually set the color adjustment sliders.

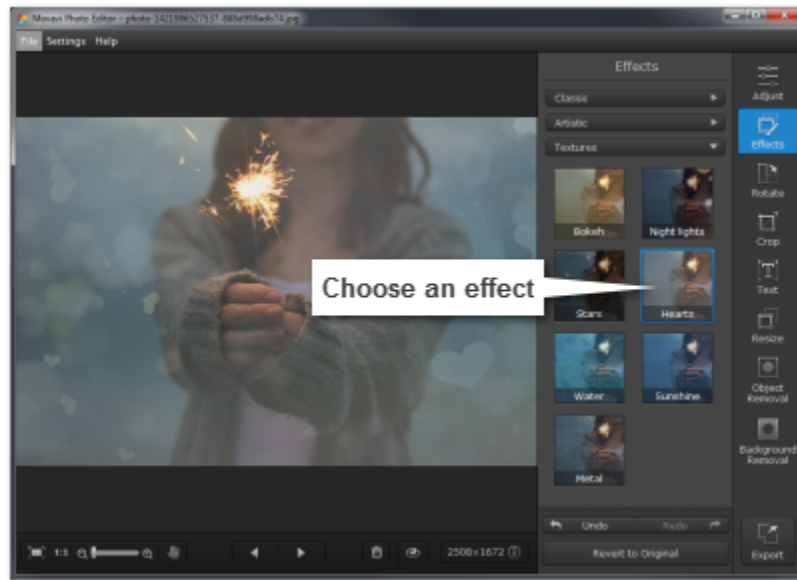
[Image adjustments](#)



Step 5: Apply an effect

1. Switch to the **Effects** tab. The effects are sorted into groups. Click on a group's title to see the effects.
2. Choose an effect you like from the list. To cancel applying an effect, simply click the effect's thumbnail again.

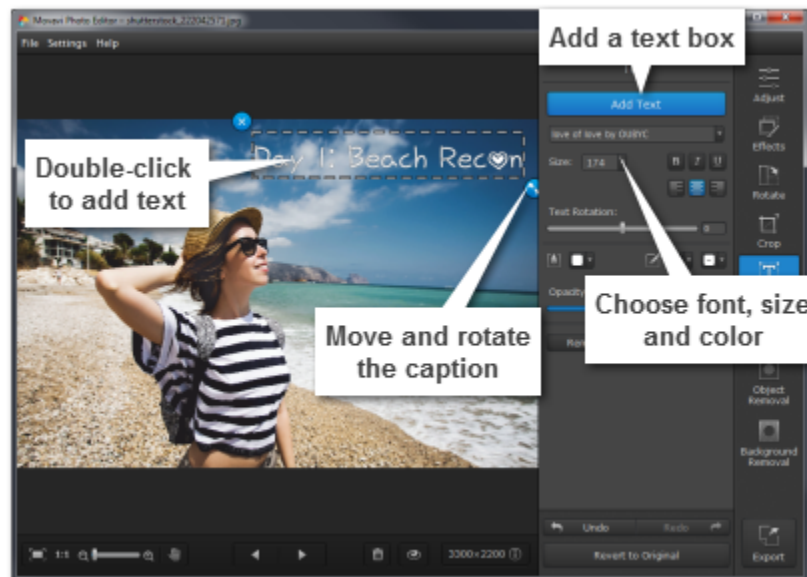
[Applying effects](#)



Step 6: Add text and captions

1. Switch to the **Text** tab
 2. Click **Add Text** to create a new text box in the image
 3. Double-click the text box and enter your text
 4. In the panel on the right, set the font, size, and color.
- You can add as many text boxes as you like – simply repeat the above steps.

[Adding text](#)



Step 7: Edit the photo dimensions

The **Rotate** tab allows you to rotate and flip the image, as well as use a special straightening tool to fix an uneven horizon. The **Crop** tab allows you to cut off the edges of the photo. You can use this to crop the image to the necessary proportions or focus on the photo's subject. The **Resize** tab allows you to shrink the image to the necessary size in pixels. This can be useful for making avatars, or uploading images to the web.

[Resizing photos](#)

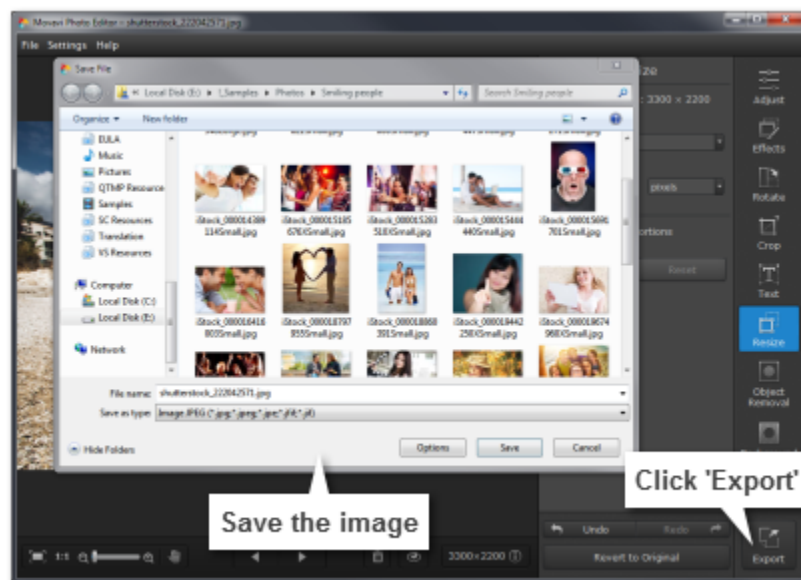
Batch resizing



Step 8: Export the finished image

1. Click the **Export** button.
2. Choose a location to save the new image.

[Saving photos](#)

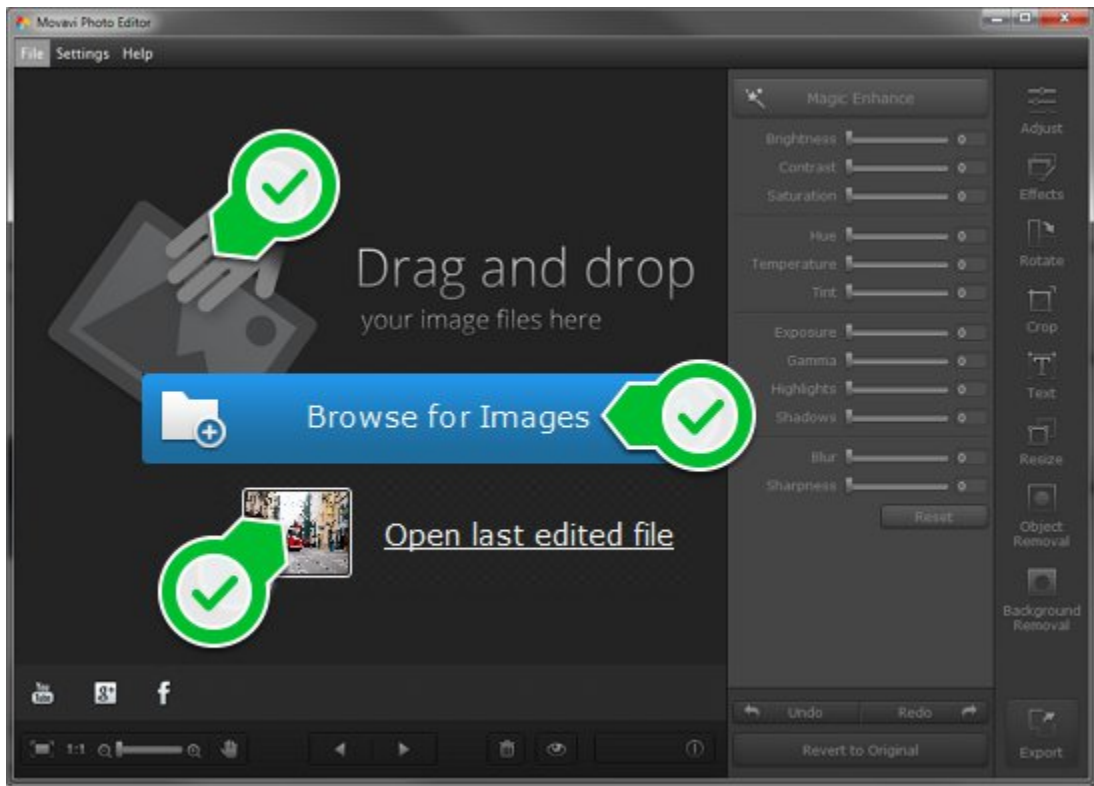


Open images

How to open an image:

There are three simple ways to open an image for editing:

- Drag and drop any image file from Windows Explorer or your desktop onto the Movavi Photo Editor window.
- Click the **Browse for Images** button while on the start screen to browse for image files.
- If you want to open the last file you've been working on, click **Open last edited file** on the startup screen of Movavi Photo Editor.

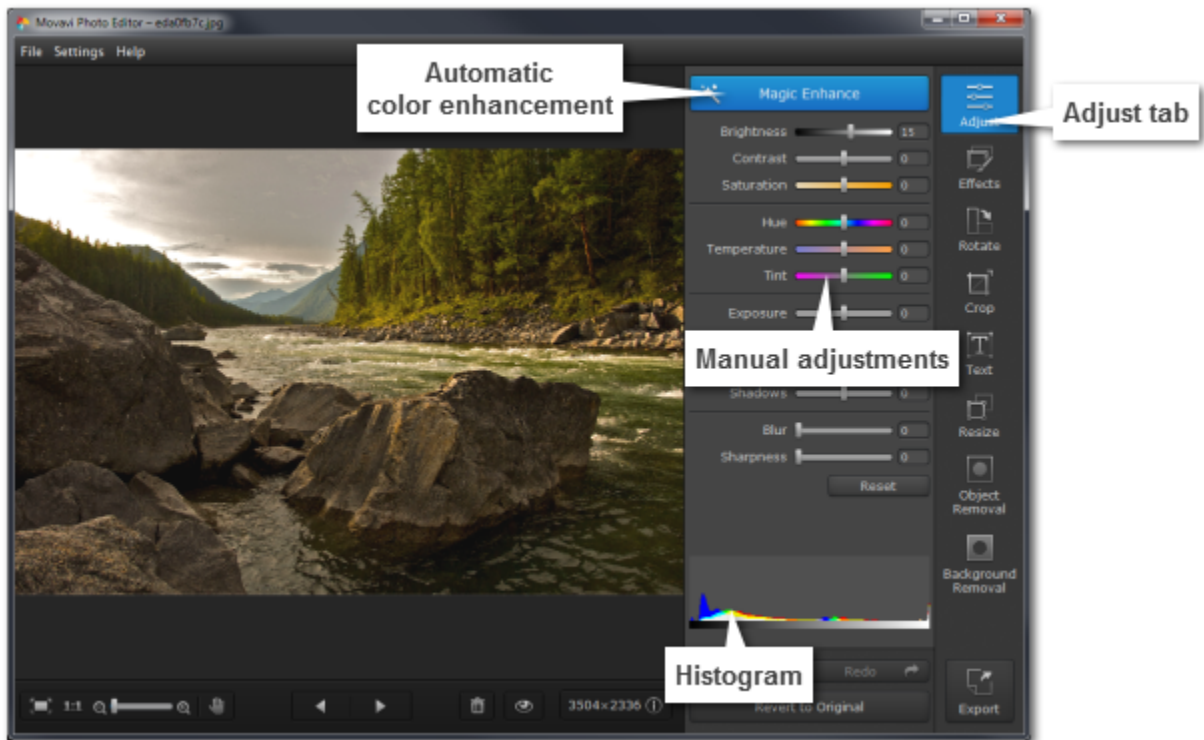


See also:

[Saving images](#)

Adjust colors

The **Adjust** options allow you to manually adjust the photo's brightness, contrast, color, and other parameters. Click the **Adjust** button on the right to open the image adjustments.



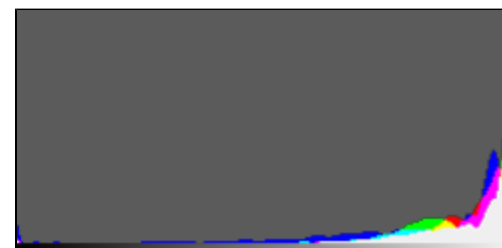
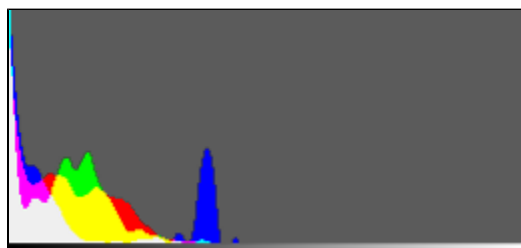
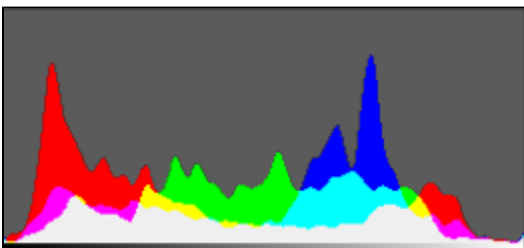
Magic Enhance

For an instant fix, click the **Magic Enhance** button. Movavi Photo Editor will automatically adjust the brightness and contrast of your image.



Histogram

The histogram, located at the bottom of the **Adjust** tab, represents the distribution of colors and their shades in an image. When you view a histogram, it can give you information about how prominent a certain color is in the image, as well as about its brightness and contrast. The left edge of the histogram contains the dark areas, while the light areas are on the right. For example, if most of the colors are concentrated in the left-hand side, then the image is probably too dark, and vice versa. The height of a color's graph represents its amount in the image. This way, you can use the histogram to aid you in adjusting the image's colors.



Histograms of normal, underexposed, and overexposed images.

Above the histogram, you will find several groups of sliders. Each slider allows you to change a certain parameter of the image, such as its brightness.

Brightness

Allows you to change the overall amount of light in the whole image, without changing any other parameters. When you increase or decrease brightness, note how the histogram moves left or right, but maintains its original shape.

Contrast

Allows you to change the difference between the lightest and darkest parts of the image. This can help you make the image more vivid, but too much contrast can cause unwanted posterization.

Saturation

Allows you to make the colors richer (positive values) or more subdued (negative values). Settings Saturation to -100 will make the image grayscale.

Hue

Allows you to change an image's overall color. Unlike tinting or color temperature (see below), changing an image's hue will not color the picture in shades of one color, rather, it will shift all the image's colors in a given direction.

Temperature

Allows you to make the image feel warmer or colder, by adding orange or blue color respectively.

Tint

Allows you to add a red or green tone to the image, either for color correction, or for an artistic feeling.

Exposure

In photography, exposure is the amount of light that is allowed to reach the camera's sensor, which is usually achieved using a combination of shutter speed, aperture, and lighting. If there is too much light on average, you may lose some details in the dark parts, while the light areas may become 'washed-out', and vice versa. This allows you to imitate a higher or lower exposure, as if you set it on your camera when taking the shot.

Gamma

Allows you to change how the middle tones appear on your image, without affecting the whites or blacks.

Highlights and Shadows

These two sliders allow you to make each component more prominent in the image, and thus make the image darker or brighter.

Blur

Allows you to slightly blur the image to reduce noise or smoothen out defects.

Sharpness

Allows you to sharpen the image to bring out more details. Please be aware that oversharpening an image can add noise.

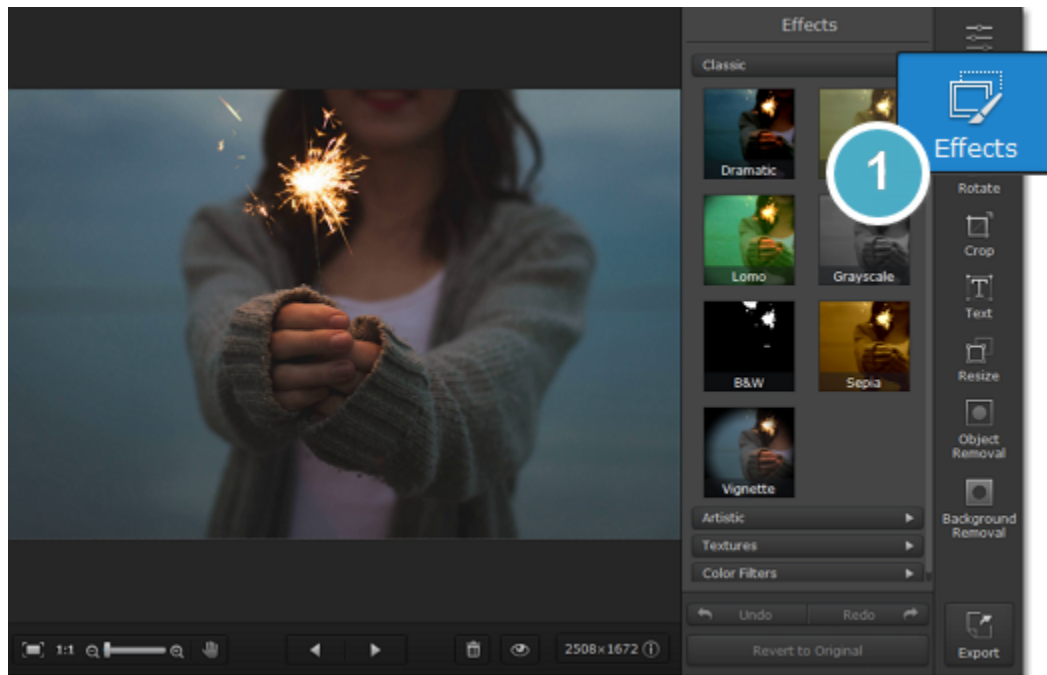
If you want to discard the most recent change, click the **Undo** button at the bottom of the screen.

If you want to cancel all the color adjustments, click the **Reset** button underneath the sliders.

Apply effects

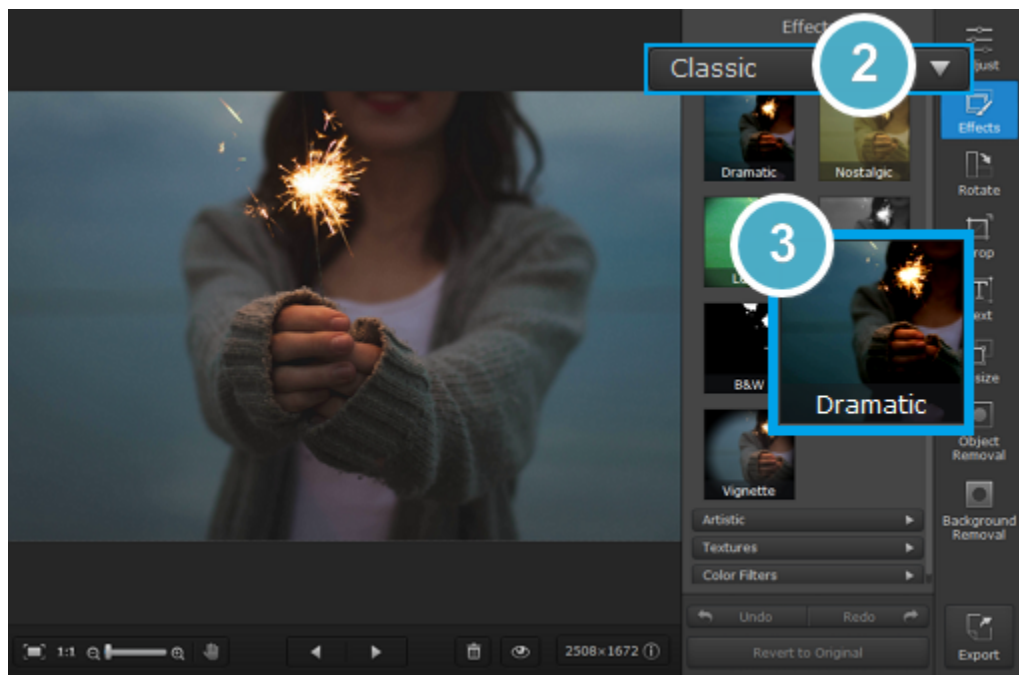
Adding an effect allows you to add a creative touch to your photos and easily convey your emotions.

Step 1: Click the **Effects** button on the right to open the effects tab.



Step 2: You will see a list of effect groups. Click on a group to open it and show the relevant effects.

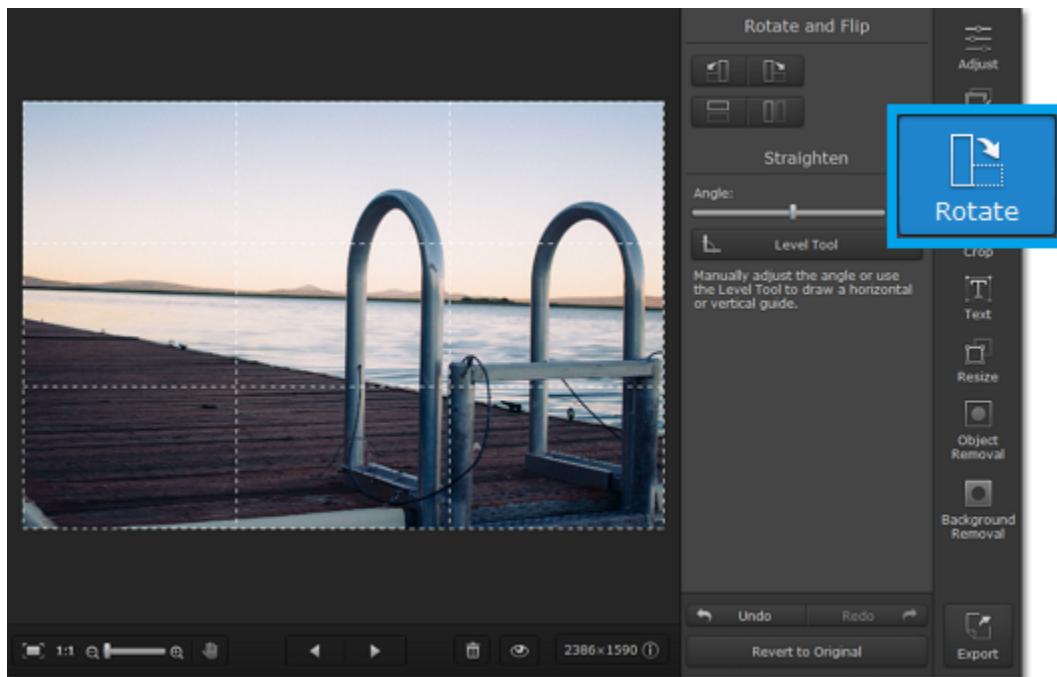
Step 3: Choose an effect you like and it will appear on the photo! You can also set the intensity of an effect by dragging a slider under the effect icon right or left. To remove an applied effect, simply click on it once more.



To discard the latest changes, click the **Undo** button at the bottom of the window.

Rotate photos

The **Rotate and Flip** option allows you to flip, rotate, and straighten out images with slanted horizon levels. Click the **Rotate** button on the right-hand side of the window to open orientation options.



Rotate and flip images

Use the buttons on the Rotate and Flip tab to rotate the image by 90 degrees or to mirror the image.



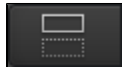
Rotates your photo 90° counterclockwise



Flips your photo horizontally (left to right)



Rotates your photo 90° clockwise



Flips your photo vertically (upside-down)

Straighten images

A tilted horizon is a frequent problem for both beginner and experienced photographers when shooting from a handheld camera. This tool allows you to easily correct tilting in your photos, and you won't have to worry about horizon levels when taking your pictures.

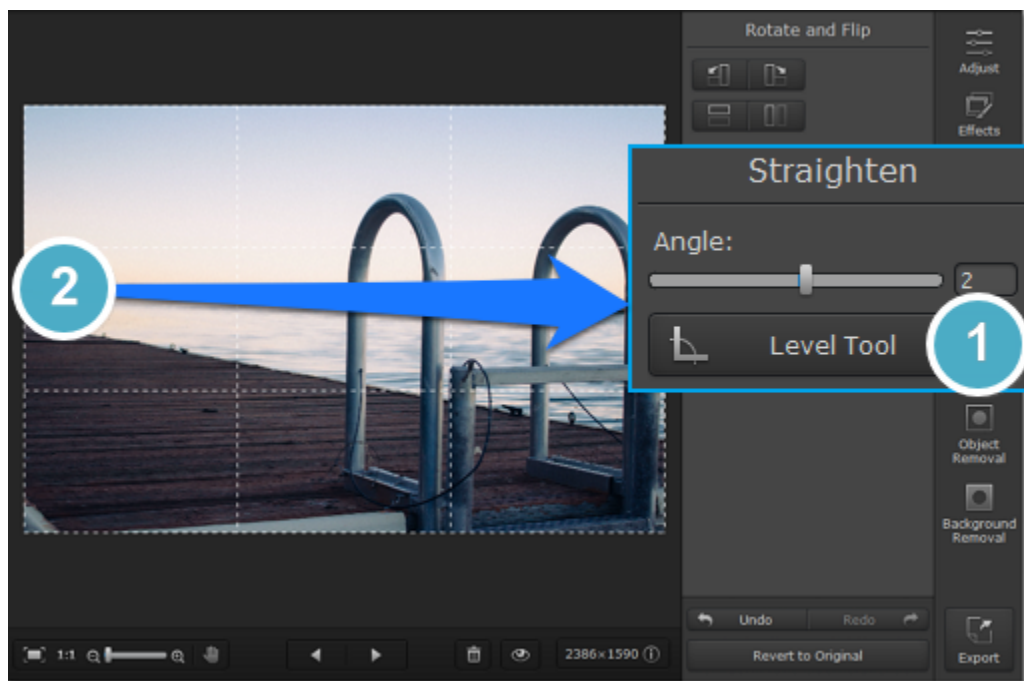
The **Angle** slider allows you to manually rotate the image up to 45° either way.

Using the Level Tool:

The **Level Tool** can help you automatically straighten out the image.

1. In your photo, find a straight horizontal or vertical line. This can be the horizon, the side of a building, or any other lines that are parallel or perpendicular to the horizon.

2. Now, click the **Level Tool** and trace that line on your image. Once you've traced the line, the image will be automatically rotated to make that line exactly horizontal or vertical.

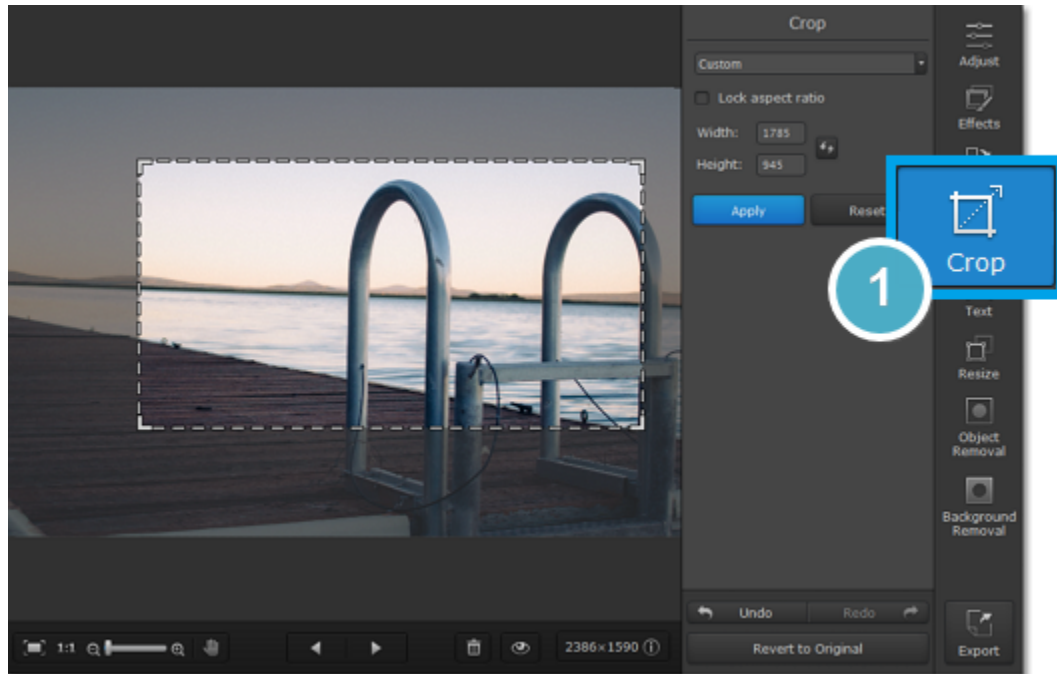


Crop photos

Cropping an image allows you to save it with a different aspect ratio, remove unwanted parts from the edges, and zoom in on objects inside the image. We recommend that you save a backup copy of the image before cropping, in case you need the original image later.

Step 1: Open the Crop tab

Click the **Crop** button on the right to open cropping options.

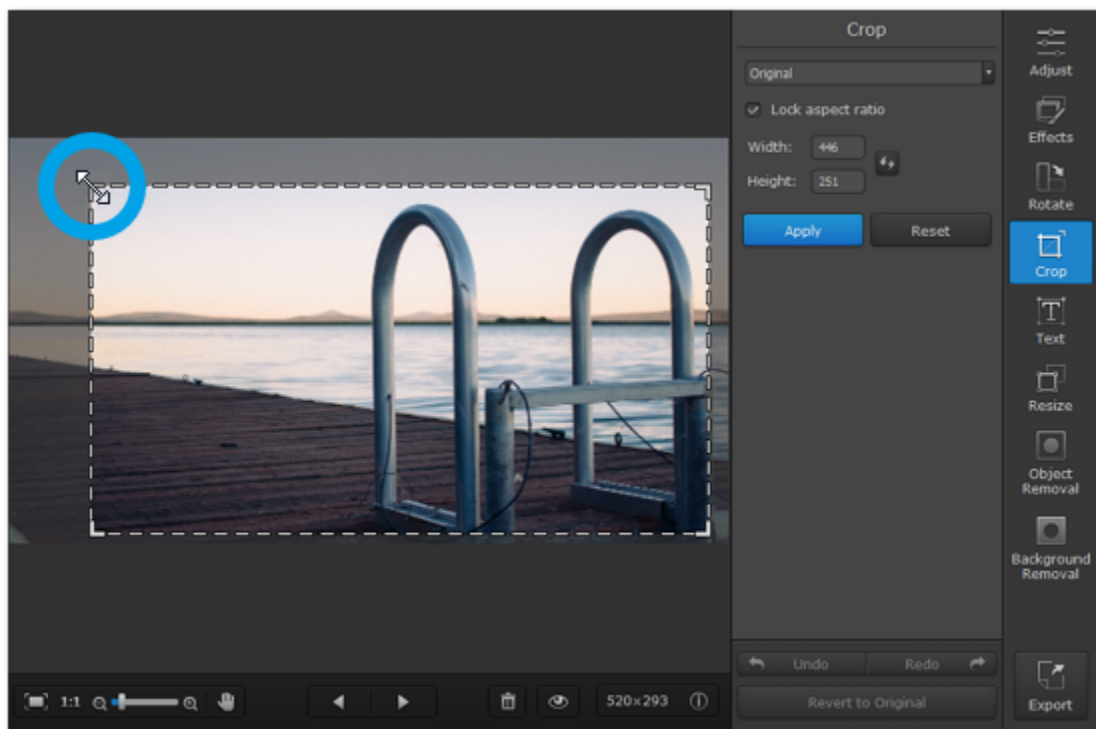


Step 2: Define size

Next, specify the size and proportions that you want. There are several ways to set the size:

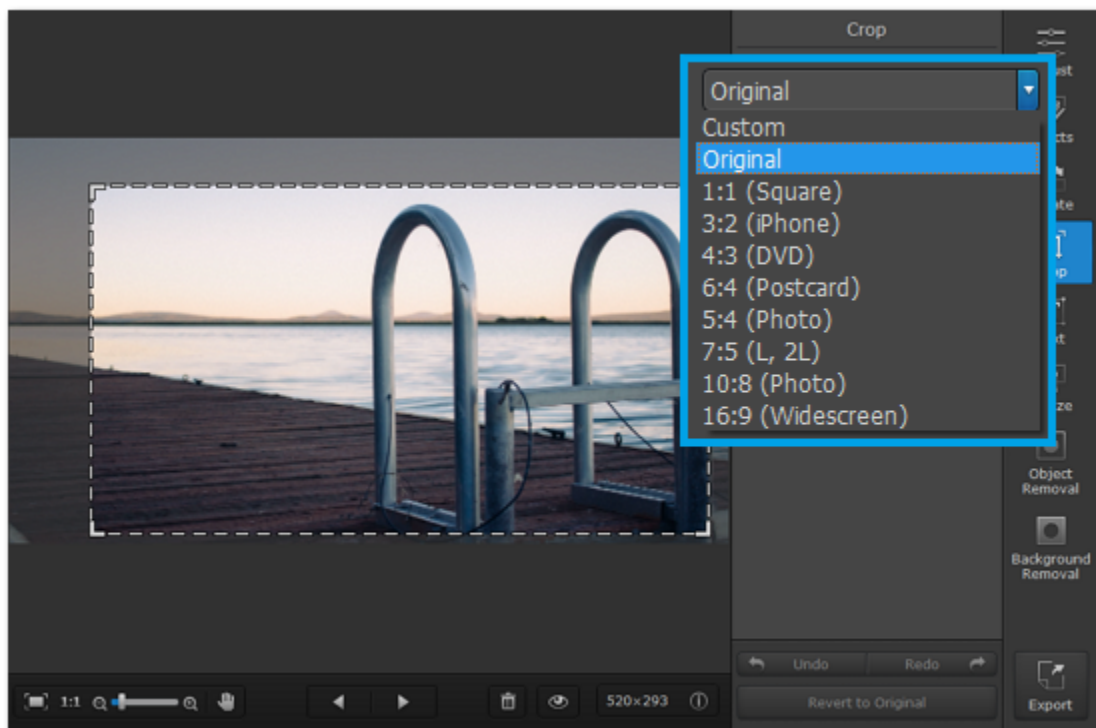
Crop frame

A crop frame will be visible over the image. Drag inside the image to draw the cropping rectangle, or move the edges of the crop frame with your mouse.



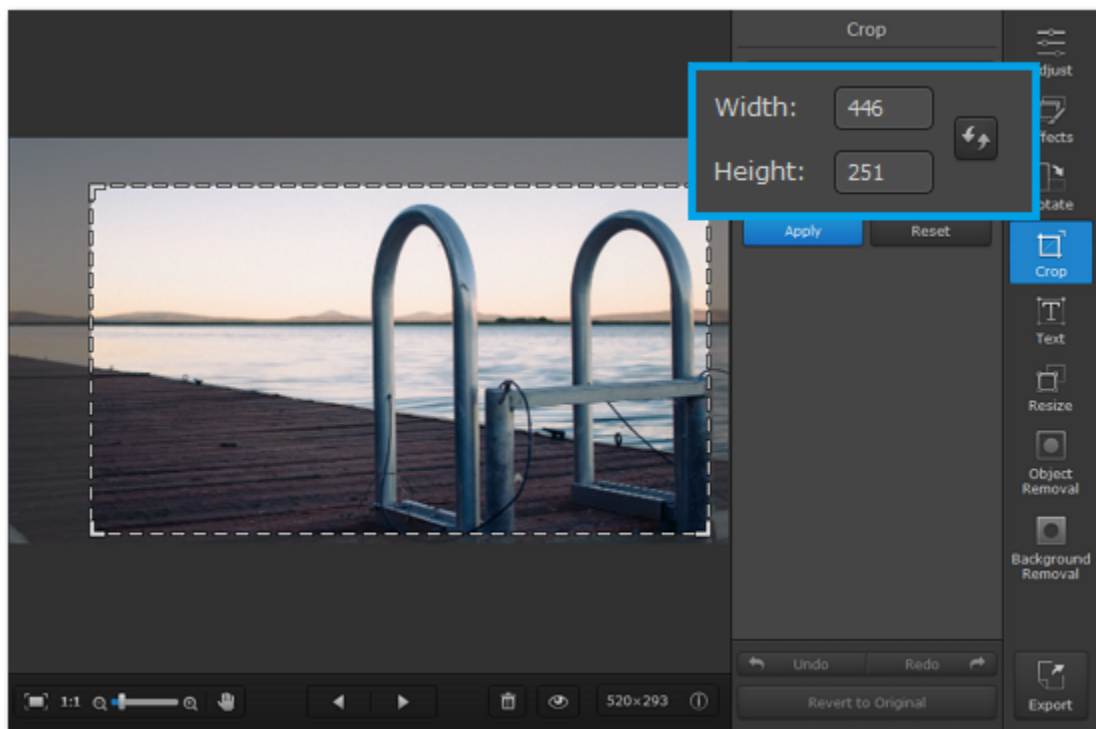
Pre-defined sizes

Open the drop-down box and select a suitable size from the list. Here, you can find some commonly used sizes and presets for quickly changing the proportions of the image.



Manual input

If you need a specific size in pixels, you can manually enter the **width** and **height** into the corresponding boxes. To switch the width and height, click the **Invert Proportions** icon.

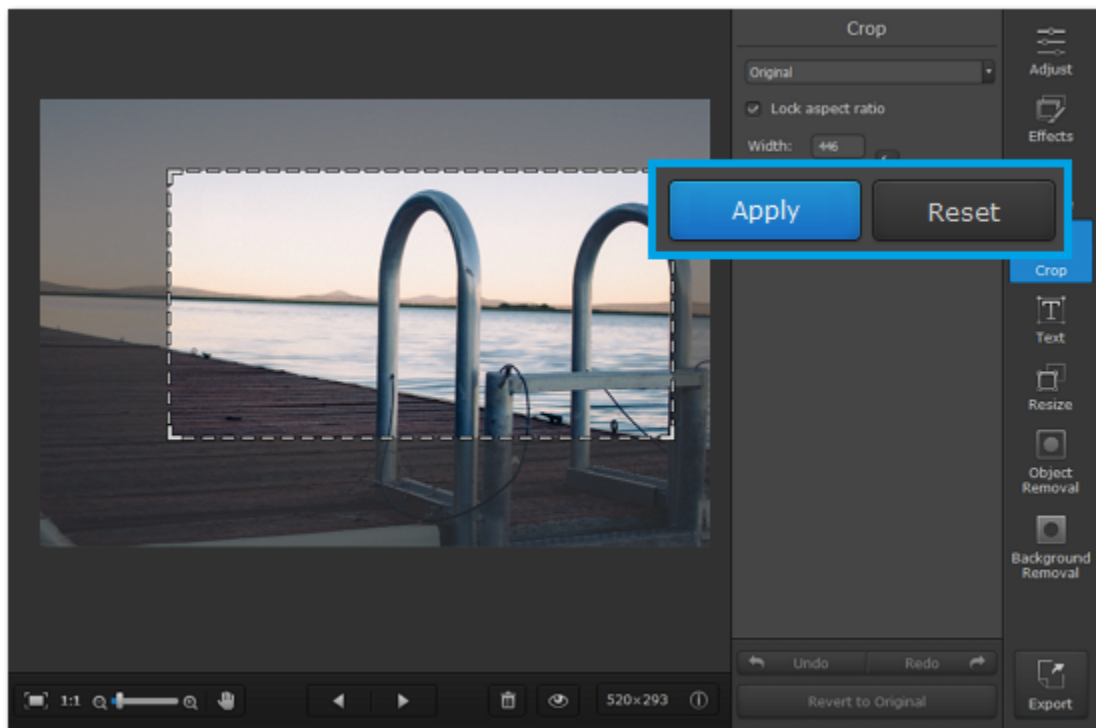


Lock aspect ratio

Selecting this option will maintain the selected width to height proportions. This way, when you change one dimension of the cropping rectangle (whether by drawing the cropping area or by entering a number for width or height), the other dimension will change accordingly to keep the selected aspect ratio.

Step 3: Apply changes

Click the **Apply** button to accept the cropping changes. To discard the changes, click **Reset**.

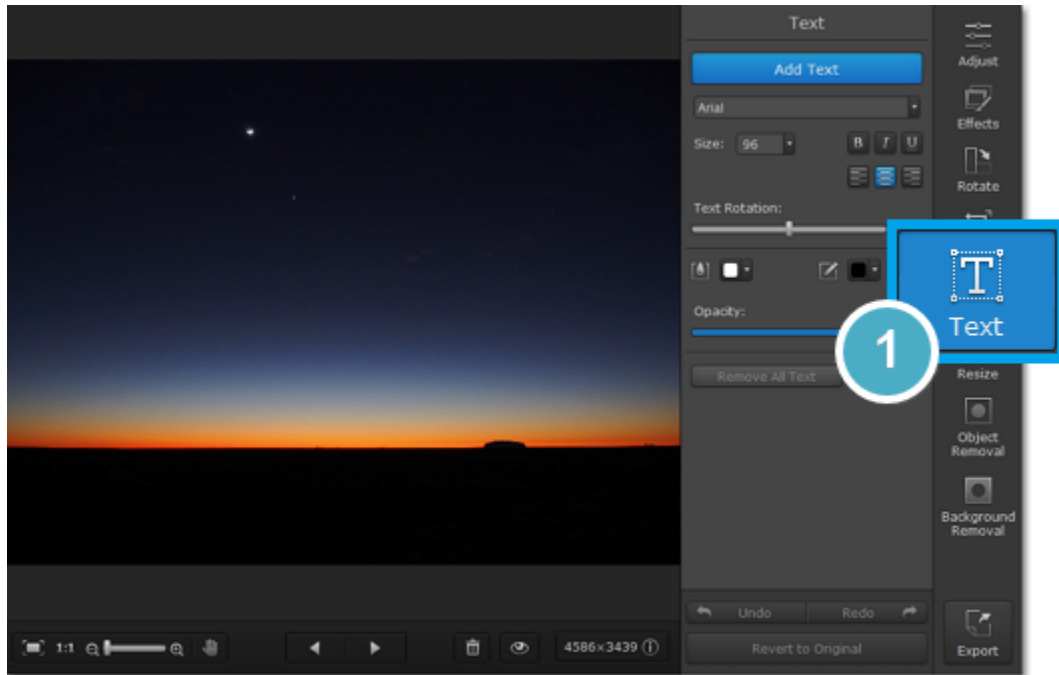


Don't forget to [save your image!](#)

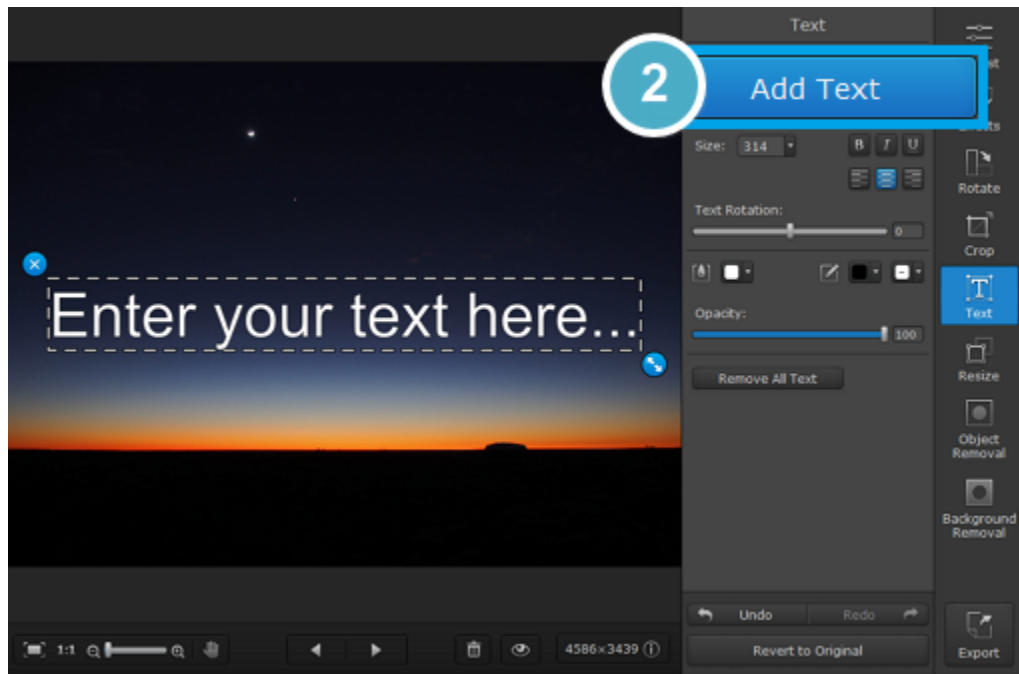
Add text

The **Text** option allows you to add text to your images. Use text to create image postcards, but remember – a picture is worth a thousand words!

Step 1: Click the **Text** button on the right to switch to the **Text** tab.




Step 2: In the Text tab, click the **Add Text** button. A new text area will appear in the photo.




Step 3: Click inside the text area and enter the new text.

Step 4: Choose a font, size, color for your text.



Step 5: Drag the text area with your mouse to place it inside the image. To rotate the text area or resize the text, drag at the  resizing button in the bottom right-hand corner of the text area.

Removing text:

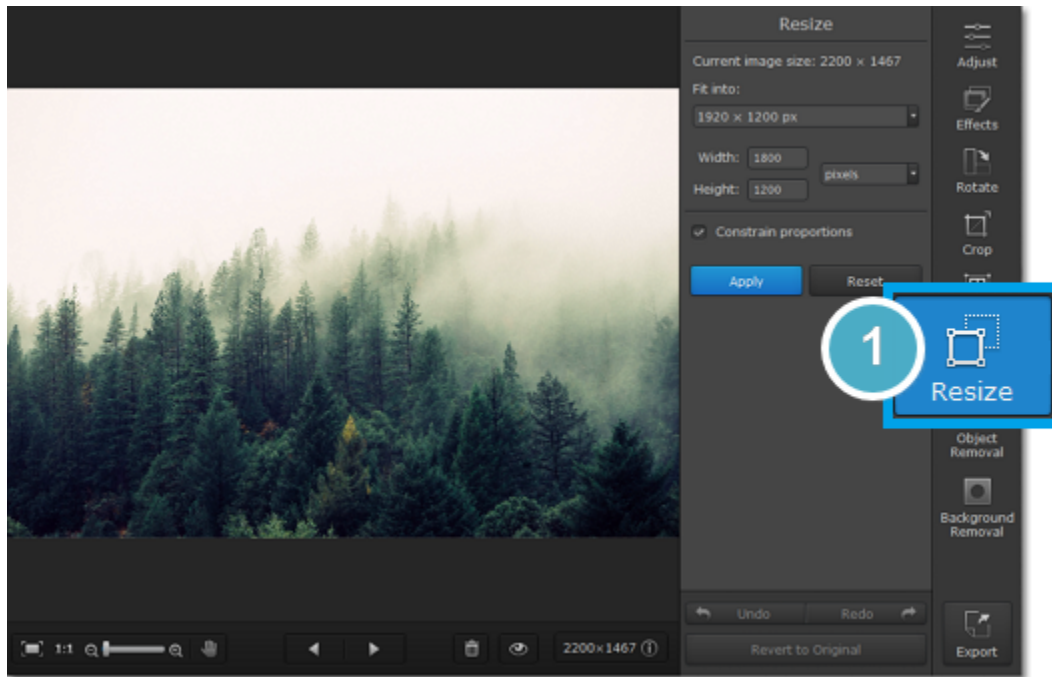
- Select a text area and click the  button in its upper left corner to remove just that one caption.
- To remove all captions, click the **Remove All Text** button in the **Text** tab right under font properties.

Resize photos

Resizing images allows you reduce an image's file size, prepare pictures for uploading to web albums, which often have a size limit, or prepare web-sized images for blogs and websites. If you intend to make other edits to the photo, it is best that you do them prior to resizing it, since the image quality will then be preserved better. Also, we recommend that you save a copy of the image before resizing in case you may need it later, especially if you plan on printing out the image.

Step 1: Go to the Resize tab

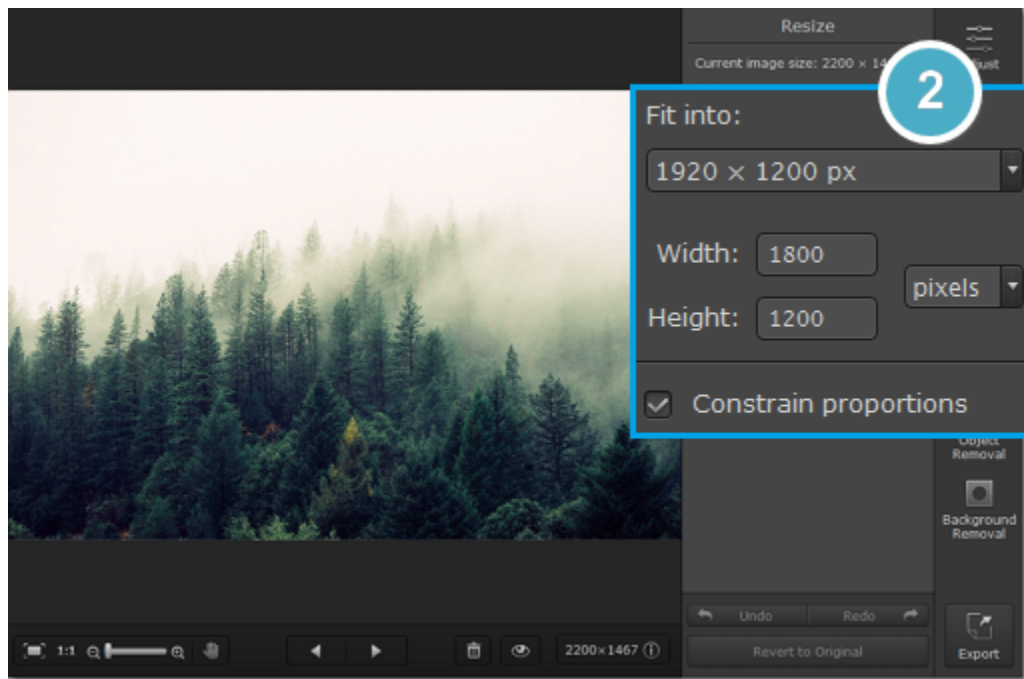
On the right-hand panel of the window, click the **Resize** button to switch to the **Resize** tab.



Step 2: Enter new dimensions

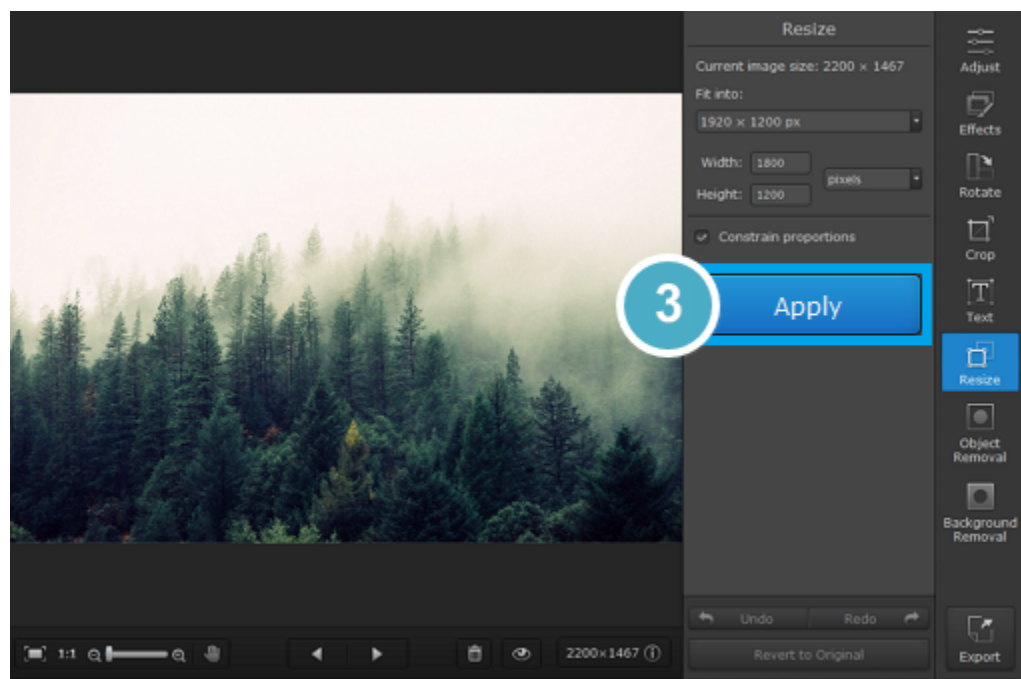
Select or enter the necessary image size:

- The **Fit into** box allows you to select from the most common image sizes, as well as presets for printing and exporting images.
- To enter a custom image size, enter the dimensions into the **width** and **height** boxes. You can change the measurement unit in the box on the right. The default unit is pixels.
- To avoid visual distortions of the image after resizing, keep the **Constrain proportions** option enabled.



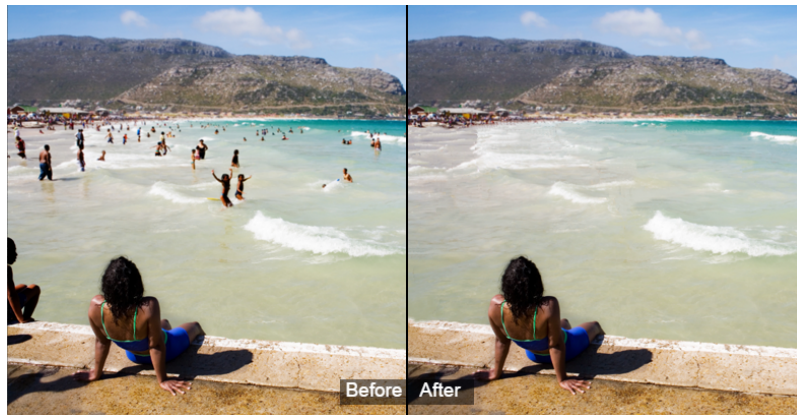
Step 3: Apply changes

Finally, click **Apply** to resize the image to the specified size. Don't forget to [save the image](#) when you're done!

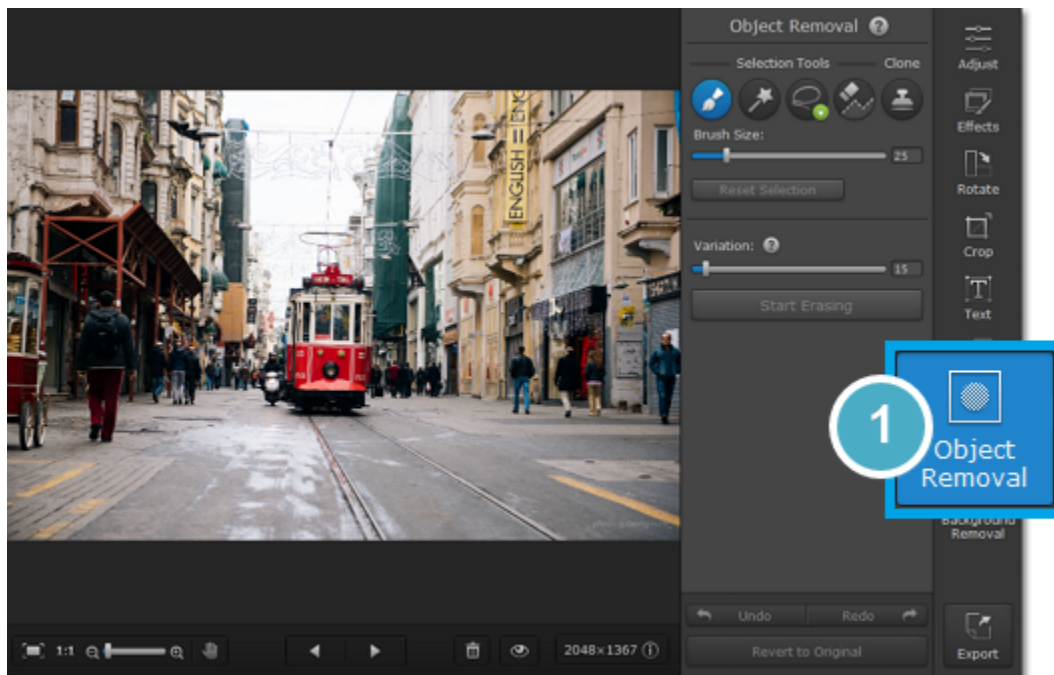


Erase objects

The **Object Removal** tool can help you erase unwanted objects or people from your images. Movavi Photo Editor uses a special algorithm to reconstruct the background as if the deleted objects were never there. All you need to do is mark the objects you want to remove.








Step 1: Switch to the **Object Removal** tab.



Step 2: Choose a selection tool

There are several selection tools available for your convenience:

-  Use the **Brush** to freely paint the red selection area. The **Size** slider below will set the brush size
-  Use the **Eraser** to deselect parts of the image. Just like with the brush, you can change eraser size with the slider below.
-  Use the **Magic Wand** tool to select adjacent areas of uniform color in a single click.
-  Use the **Clone Stamp Tool** to select a part of the image to transfer onto another part of the image. You can use the **Clone Stamp** Tool to mask small blemishes or duplicate objects.
-  Use the **Lasso** tool to outline an object. Click the arrow on the lasso icon to change the type of lasso:



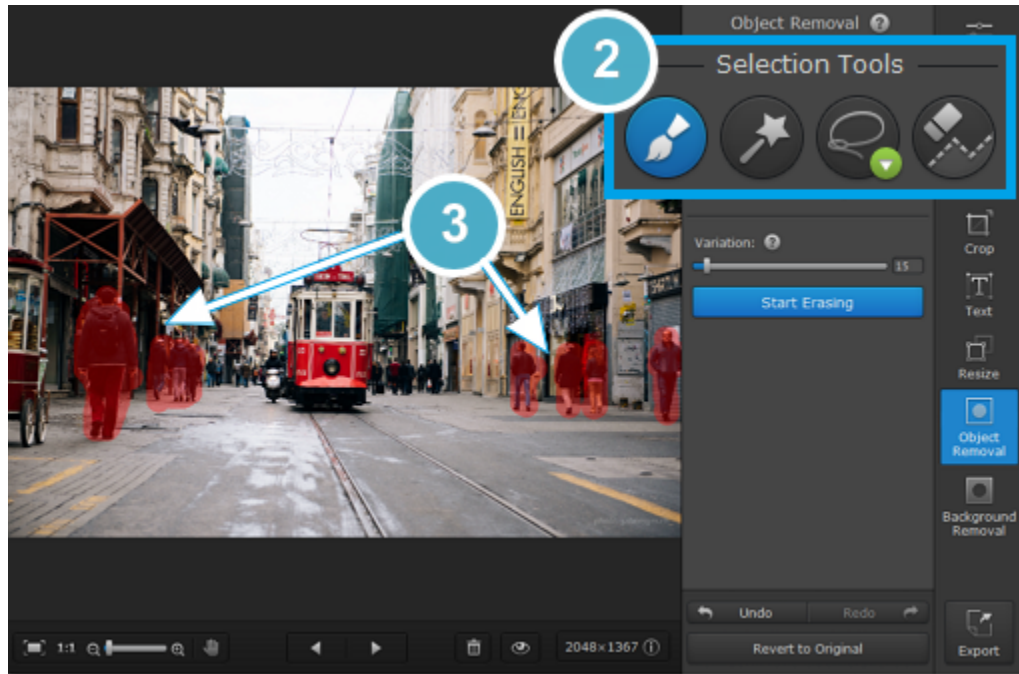
The default **Freehand Lasso** allows you to freely draw the object's outline.



The **Polygonal Lasso** allows you to outline the object with straight lines.

Step 3: Mark unwanted objects

Using the selected tool, mark the objects you want to delete in the image. You can mark and delete all the objects at once or one after one. When selecting people and objects, don't forget about their shadows and reflections.



The people marked with red will be removed from the image.

If you need to make the selection larger or smaller on all sides, use the following keyboard shortcuts:

Ctrl+Shift+P to **expand** the selection

Ctrl+Shift+M to **contract** the selection

Step 4: Set Variation

When you remove an object, the program will recreate the background by using pixels from the rest of the image. **Variation** affects how far away from the object the replacement pixels can be taken from. For lower variation values, the replacement pixels will be taken from the area only directly adjacent to the object, while at 100 they can be taken from any part of the image.

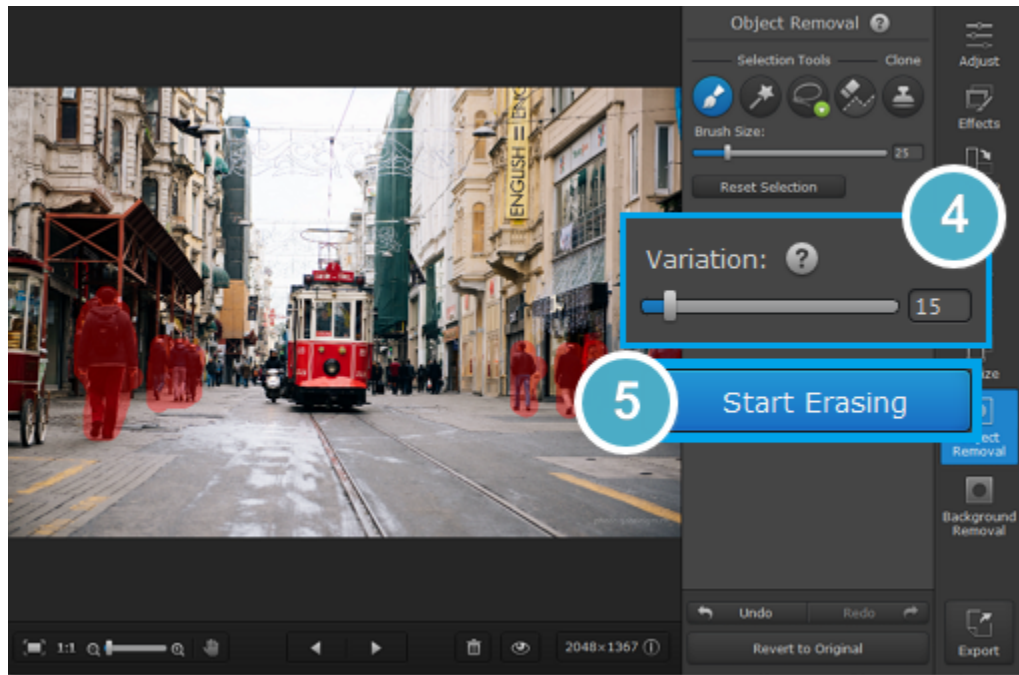
Different variation values will provide different results depending on the size of the object, its background, and the overall uniformity of the image. Try out a few values to see which works best for your pictures.



For example, in this image it would be best to select a lower variation so that the sea is not cloned onto the sand.

Step 5: Erase!

Click the **Start Erasing** button to begin processing. Please note that erasing objects with high variation values will take slightly longer. If you aren't satisfied with the result, you can click the Undo button and adjust your selection or choose a different variation value. Repeat steps 3-5 to remove any other objects you want.

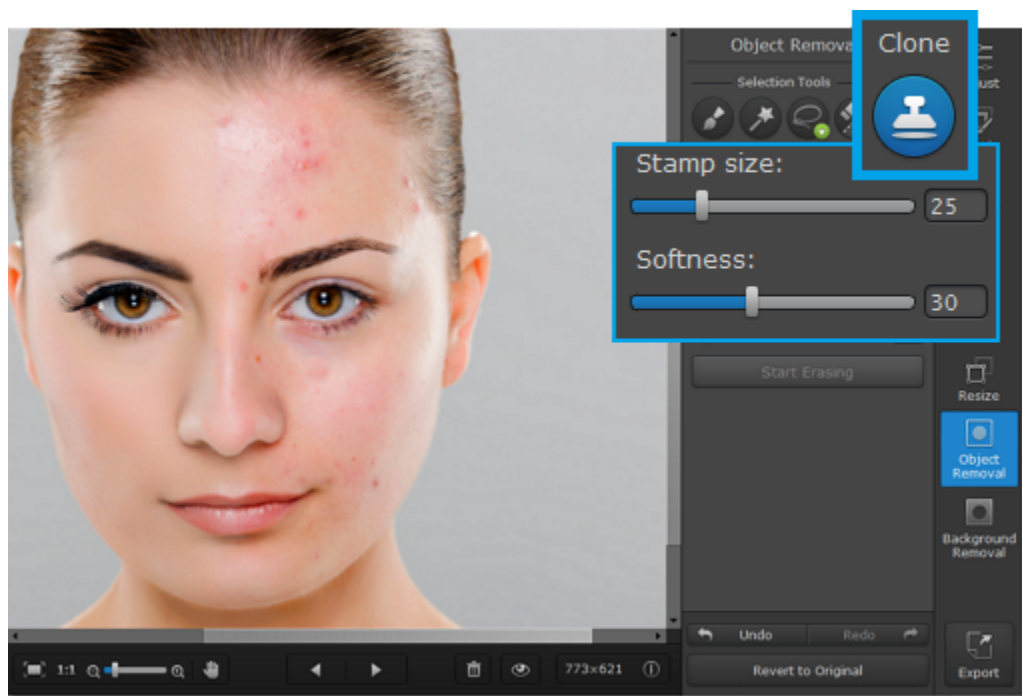


Step 6: Clone retouching

If there are some more small defects left over after erasing, you can manually correct them with the **Clone Stamp** tool. You can select a patch of the image and copy it over the defects.

1. Select the **Clone Stamp** tool. Choose the **stamp size** and **softness** (how smooth the edges of the stamp should be).
2. Hold down the **Alt** key and click onto the part of the image that you want to clone. Usually, it should be close enough to the blemish so that the copied spot is similar to the original in color and texture.
3. Paint over the blemish with the copied sample. The source will also move as you paint with the stamp, in order to give a more natural look to the edited parts.

[Learn more about clone retouching](#)



Cut out the background

Movavi Photo Editor can help you quickly and easily cut out people and objects from any background. You can use it to create product photos, funny collages and more.



Step 1: Cutting out the Background

1 Mark the foreground and background

2 Set border smoothness

3 Click Cut Out

1. Mark the foreground and background areas:

Use the tools to specify which parts of the image belong to the object you want to keep, and which belong to the background and must be clipped away.



The green **Foreground Brush** lets you select the object you want to keep. Paint a few strokes inside the object(s) to mark them as the foreground. There is no need to color the entire object, as Movavi Photo Editor uses a smart edge detection algorithm.



The red **Background Brush** lets you mark the background, which needs to be erased. Swipe a few strokes of the red brush on the background around your object. Pay closer attention to parts of the background that have similar color or pattern to that of the foreground.



The **Eraser** lets you erase both red and green selection in case you make a mistake.

Now that you've marked the foreground and the background areas, a yellow border line will appear around your object. Sometimes, with complex shapes or background patterns, you may need to add a few more strokes of each brush to specify the border line. For higher precision, try zooming in on the image and using a smaller brush size.

2. Set Boundary Smoothness:

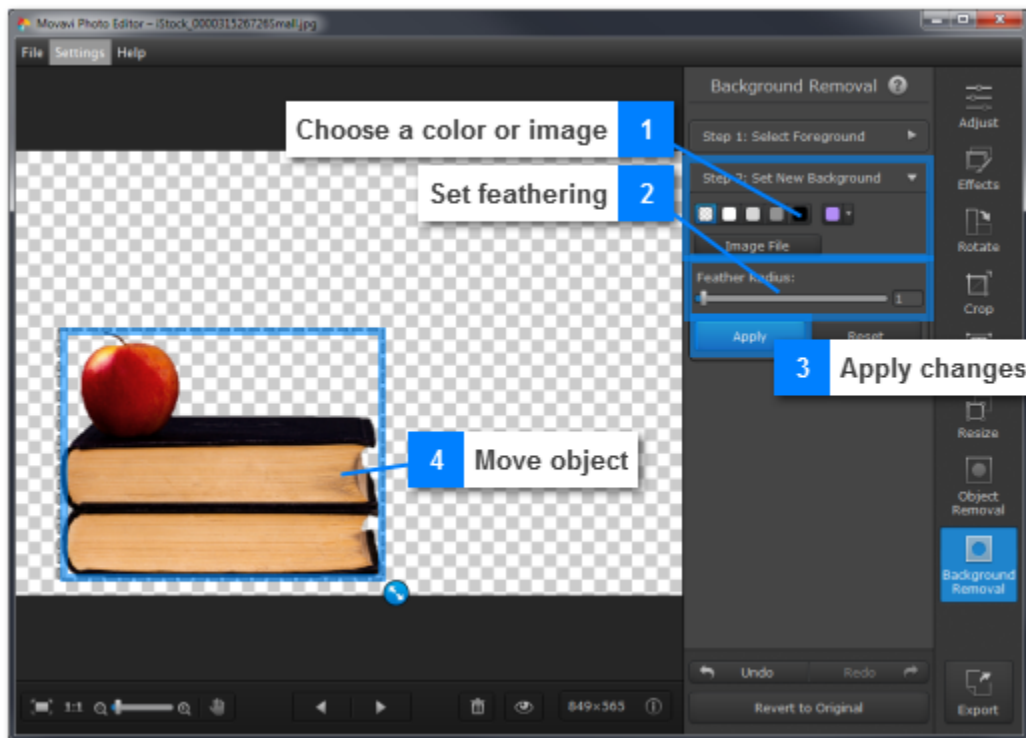
Sometimes, due to the complexity of the background or the object's shape itself, the yellow boundary may seem a little 'jagged' where it shouldn't be. To reduce this effect, you can set the **Boundary Smoothness** so that the borderline looks more natural. Likewise, if there are many small details on the edges of the object, select a low smoothness to preserve their shape.

3. Cut out the background

When the yellow border completely encompasses the object you want, click **Cut Out** to clip away the background. The background will be removed, and you can proceed to the next step, where you can choose a new background. If you want to return to editing the selection, click **Step 1: Select Foreground** tab to show your selection and the selection tools. Once you've adjusted the selection, simply click the **Cut Out** button once again to proceed.

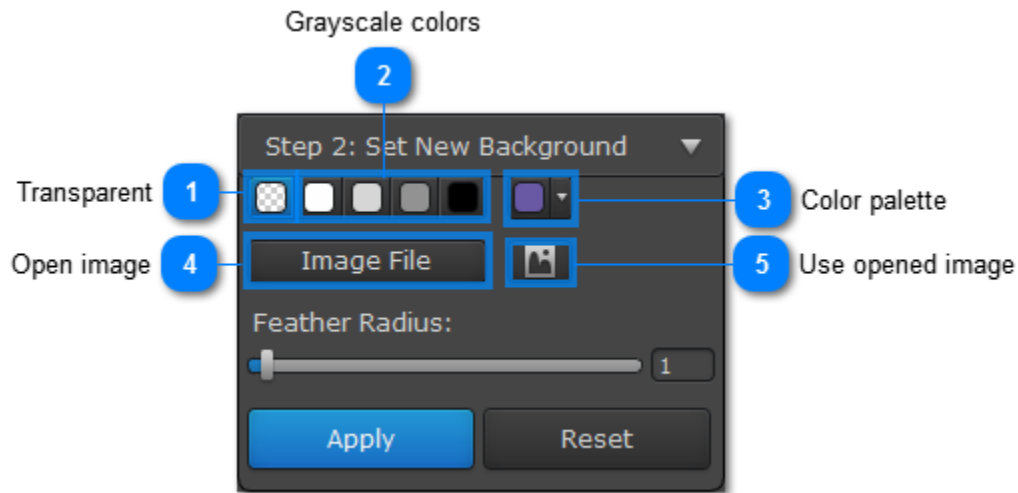
Step 2: Set the New Background

When you click **Cut Out**, you will be switched to **Step 2**, where you can select a new background for your image and move the cut out objects as you like.




1. Choosing a background color or image

In this step, you can choose what you'd like to use as the new background for the object you've cut out.



Transparent:

If you want to keep a transparent background, choose the 'transparency' icon to the left of the color palettes .

Grayscale colors:

To use a standard white, grey, or black background, choose one of the color icons.

Custom color:

To choose a different color, click the arrow on the rightmost color sample to open the palette. Click **More** in the palette to open the standard color selection dialog box where you can mix a custom color.

Image:

To open an image to use as the background, click the **Image File** button and select the file you want to use. It will then be added as the new background.

2. Feather Radius

If the object has uneven edges or color noise along the edges, you can use feathering to slightly blur the edges and make a smoother transition from the object to its new background. Drag the **Feather Radius** slider to set the necessary blurring level.

3. Move the object:

Click and drag your object to move it anywhere you want in the image. If the object is much smaller than the original image size, you can later [crop the image](#).

Step 3: Apply the changes

Finally, click **Apply** to accept the changes. Please note that if you switch to another tab while removing a background, your selection will be lost.

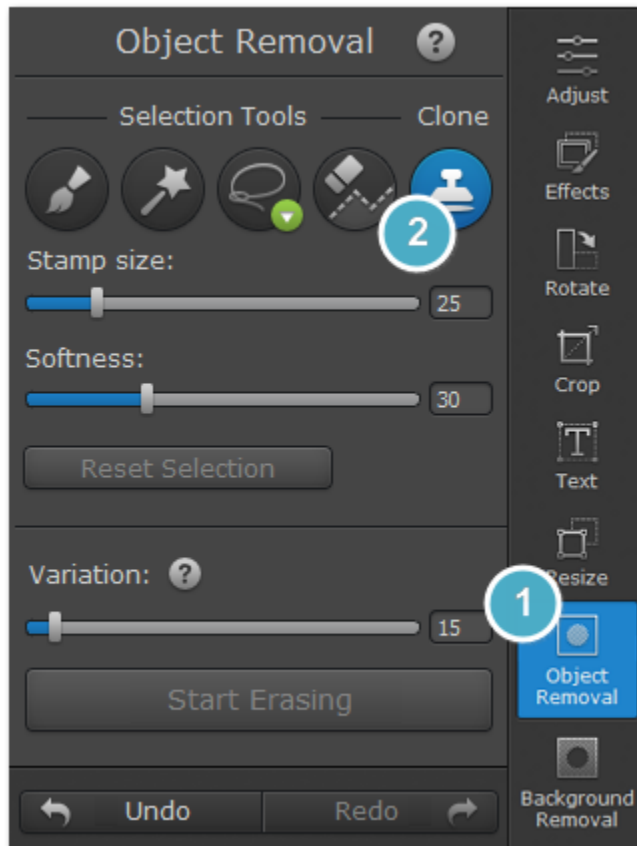
Don't forget to [save your edited image](#)!

Clone stamp retouching

Located on the **Object Removal** tab, the **Clone Stamp** tool can help you manually correct small blemishes, remove wrinkles, or clone (copy) objects on an image.

Step 1: Select the Clone Stamp tool

Switch to the **Object Removal** tab, and click the stamp icon in the toolbar to select the **Clone Stamp** tool.



Step 2: Set the stamp size and softness

Use the **Size** slider beneath the tool icons to set the stamp's size.

Increasing **Softness** will make the stamp's edges more transparent, which can help you blend the stamped parts with the rest of the image.

Step 3: Pick a source

Move your mouse pointer over to the area that you want to clone. Hold down the Alt key and click on the image to define a source point.

Step 4: Paint over the target

Release the Alt key. Then, move your mouse pointer to where you want the cloned fragment to appear and paint over the area you want to replace. As you move your cursor while painting with the stamp, the sampled area will also move relative to your cursor position.

To discard the latest changes, click the **Undo** button at the bottom of the window.

Save images

How to save an image:

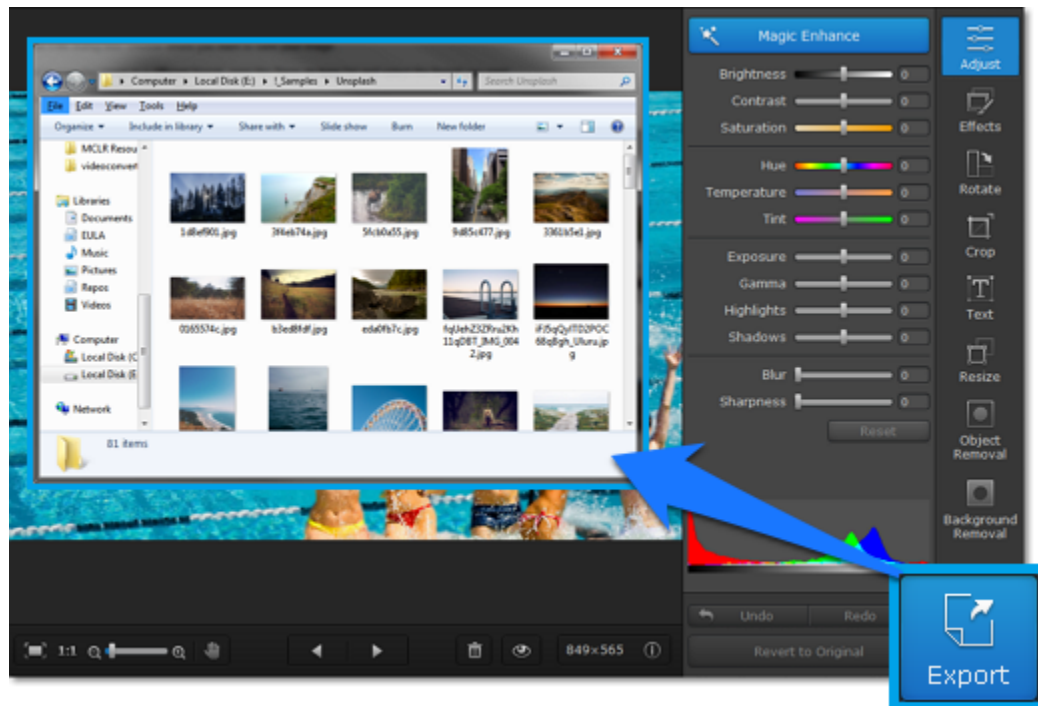
1. Click the **Export** button in the bottom right-hand corner or open the **File** menu and click **Save** to rewrite the previous image, or click **Save As** to save the image under a different name.

2. In the **Save File** dialog box, choose where you want to save your image.

3. If you want to save the image in a different format, open the **Save as type** list and select the format you want.

[Learn more about changing image format](#)

4. Finally, click **Save**.



Print images

Follow these simple recommendations to print out high quality images from Movavi Photo Editor.


1. Make sure the image is large enough for printing on the selected paper size, and conversely, choose the right paper size for your images. If you print out small images on large paper, you may find that you can see individual pixels or that the image is not smooth enough on print. Before taking the photos you want to print, use a camera with a high megapixel count, make sure that it is set to the highest available quality (some cameras allow you to shoot smaller images than the camera's maximum size), and provide good lighting conditions to minimize noise.

The larger the original photo, the larger a print size you can afford without losing crispness and quality. The standard for printing images is to have at least 300 pixels per inch of the photo paper. The following table shows the correlation between image size and its printed size when printed at 300 pixels per inch (~118 pixels/cm). You can use it to match paper size to your image size and vice versa.

| Camera Megapixels | Image Size in Pixels | Printed Size in Inches | Printed Size in Centimeters |
|-------------------|----------------------|------------------------|-----------------------------|
| 2 | 1600 x 1200 px | 5" x 4" | 13 cm x 10 cm |
| 3 | 2048 x 1536 px | 7" x 5" | 17 cm x 13 cm |
| 4 | 2464 x 1632 px | 8.2" x 5.4" | 21 cm x 14 cm |
| 5 | 2560 x 1920 px | 8" x 6" | 21 cm x 16 cm |
| 6 | 2816 x 2112 px | 9" x 7" | 24 cm x 18 cm |
| 8 | 3264 x 2468 px | 11" x 8" | 28 cm x 21 cm |
| 10 | 3872 x 2592 px | 12.1" x 9.1" | 33 cm x 22 cm |
| 12 | 4000 x 3000 px | 13" x 10" | 34 cm x 25 cm |

If you didn't find the necessary size in the table, you can easily calculate the printed size in inches (1 inch = 2.54 cm) by dividing the width and height in pixels by 300. Likewise, to find out the minimum number of pixels for a certain print size, multiply the width and height in inches by 300 to get the image dimensions in pixels.

2. You do not need to downsize the image before printing: the software will automatically fit the image onto the selected paper size. Downsizing the image will only reduce quality.

3. If you need to crop unwanted parts of the image, make sure that the end result is not too small. If you have a very large image, you can use the crop function to zoom in on objects in the image (don't forget save cropped file as a new image in order not to lose the original one!), but keep in mind that the output image size must be large enough for printing. You can check the image size in pixels by looking at the **File Information**  button on the bottom panel. You can learn more about edited file by clicking on this button.

4. Use a high quality printer for printing out your photos. These simple guidelines will help you choose a printer:

- Inkjet printers are much better at printing images than laser printers. Dye sublimation printers are considered the best for printing photos, however they are quite rare and can only be used for photo printing.
- Check the printer's dots per inch (DPI) resolution: the higher the DPI, the higher quality prints it will be able to produce. For photo printing, make sure that the printer has at least 300x300 DPI.
- Generally, a dedicated photo printer will produce better results than a general-purpose multifunction printer of the same price range.
- Some printers may produce colors different from the original because of the way they convert RGB color (the color scheme you see on your monitor) to CMYK color (used for printing).
- Be aware of your printer's maximum print size; many consumer printers only print photos up to 8 by 10 inches (20.32 x 25.4 cm). You should find this information on the packaging or in the printer's user manual.

*You can get the information about your printer properties on the device itself, in printer User's manual, on a box or on manufacturer's web page.

5. Use high quality photo paper. There are different kinds of photo paper that may work differently depending on the content of your image. For example, glossy paper is better at reproducing bright colors, while matte paper is more suitable for portraits. Also, make sure that the paper matches your printer type (i.e. laser or inkjet).

Calibrating your Display

The colors you see in print may be slightly different than those you see on your display due to LCD monitor specifics. You can try to calibrate your display for better previewing:

1. Open the **Control Panel**
2. Type "*Calibrate display*" into the search box.
3. Click **Calibrate display color**. This requires administrator permissions.
4. Follow the onscreen instructions to calibrate your display.

Printing the Image

To print out an image from Movavi Photo Editor:

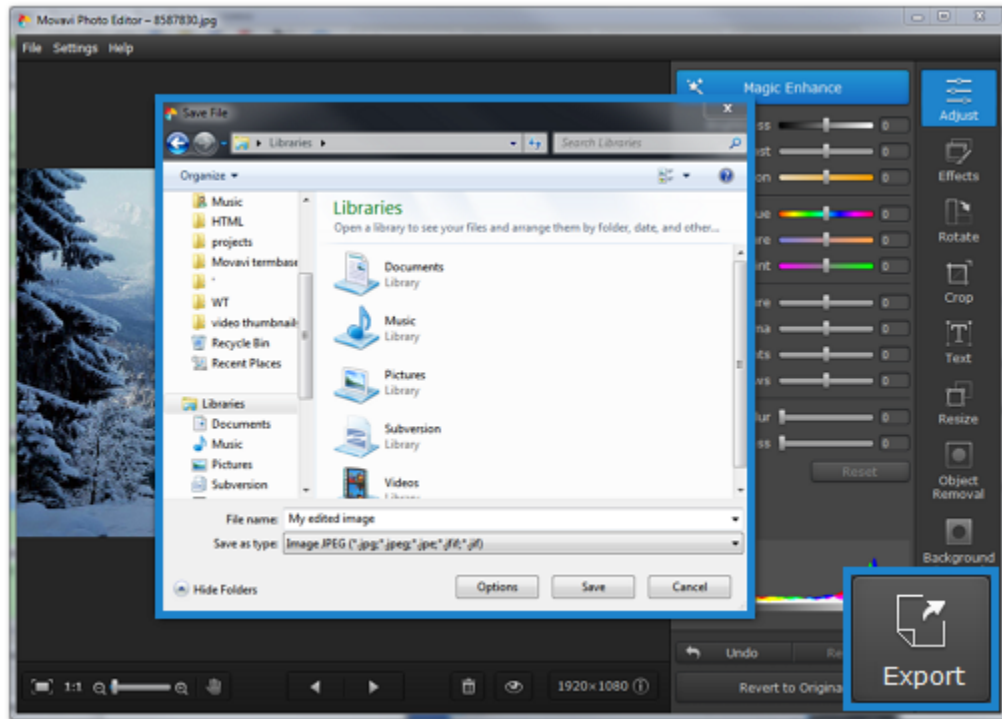
1. Open the **File** menu and choose **Print**.
2. Choose the printer you want to use for printing the photo.
3. Click **Settings** to open the settings for the selected printer. The settings will vary depending on your printer's software, but generally you can choose paper size, orientation and color options.
4. Choose the number of copies that you want to print. If this is your first time printing a photo, you may want to first print only one sample copy to make sure you have set up everything right.
5. Click **Print** to send your image to print queue. The printing process should begin shortly. The time needed to print an image heavily depends on the size of paper, resolution and complexity of the image and on set photo printing quality.

Change image format

Changing an image's format allows you to use your images in a wider variety of situations, compress the images to a smaller file size, and work with transparency. Many websites only allow a limited number of formats for uploading, so having a tool to easily change image format becomes a must.

How to change image format in Movavi Photo Editor:

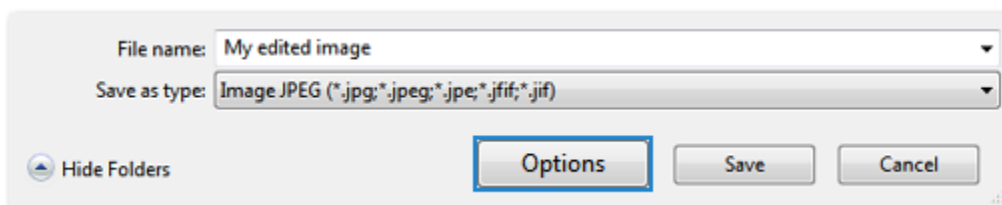
1. [Open the image](#) you want.
2. Click **Export** in the bottom right-hand corner of the window. The **Save File** dialog box will open.



3. To choose an image format, open the **Save as type** box and select the format you need.
 - If the format lists multiple file extensions, such as *.jpg, *.jpeg and others for JPEG, you can type the necessary file extension in the file name field.
 - If your image contains transparent areas (for example, after removing a background), please note that not all formats support transparency. If you want to retain transparent areas after saving the image, choose one of the following formats: **BMP**, **PNG**, **DPX**, **TGA**.

Advanced:

Some formats also allow you to set image quality and compression method. For these formats, click the **Options** button in the **Save File** dialog box to open these options.



JPEG Quality

Drag the slider to the necessary quality level and click OK. Lower quality allows you to compress the image to a smaller file size, but will probably not look as good.

TIFF Compression

Select the preferred compression method:

- **Uncompressed:** no compression method will be used. The image will be much larger in size than its compressed copies, but uncompressed images with large resolutions may be processed faster by some software.
 - **PackBits:** offers less compression than LZW, but is the most widely supported compression method, especially on Apple software.
 - **LZW:** compresses the image to about half size.
 - **ZIP:** best for working with 16-bit images and average for 8-bit images.
- Click **OK** to apply changes.

4. Choose where to save the new file and give your file a name.

5. Click **Save**.

If you make any edits after saving the file in a different format, you will be working with the new file.

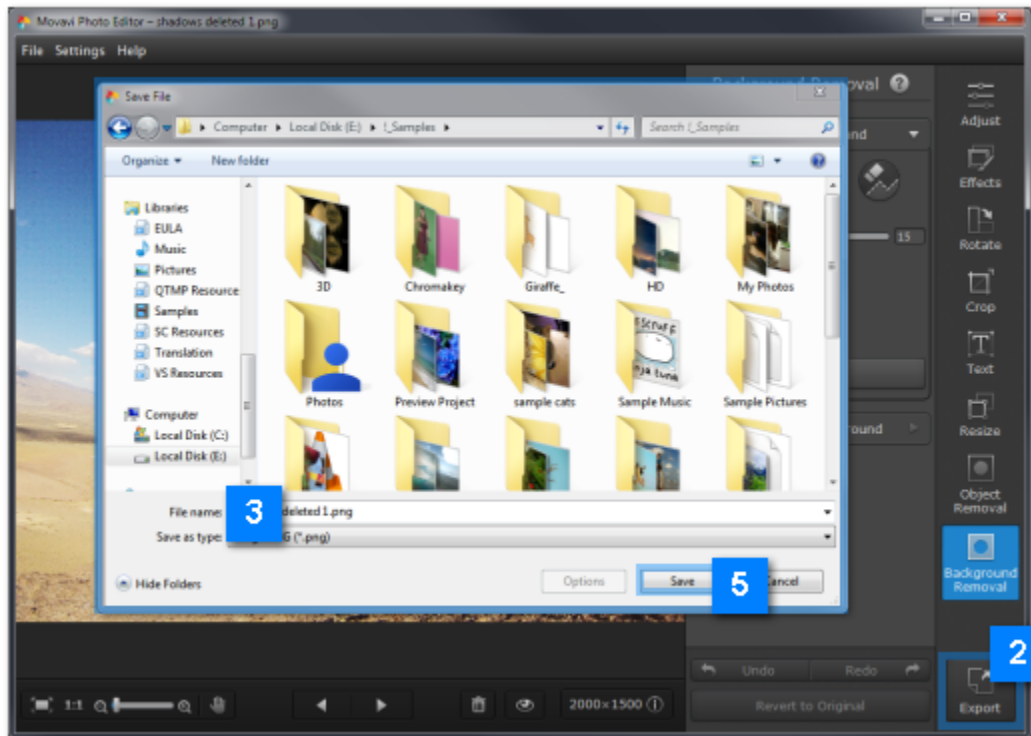
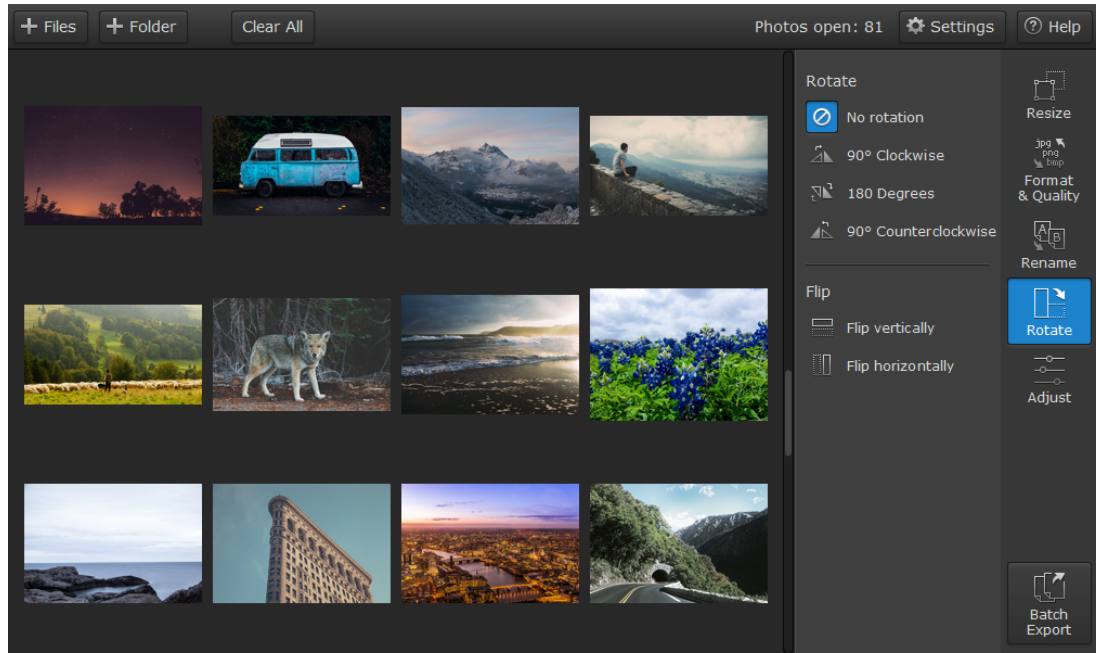


Photo Batch

Using Movavi Photo Batch, you can edit lots of photos at once.



Don't know where to begin?

[Read the Quick Start Guide!](#)

Basics:

[Opening photos](#) [Previewing](#) [Batch export](#)

Editing tools:

[Resizing photos](#) [Converting photos](#) [Renaming photos](#) [Rotating photos](#) [Color adjustments](#)

Batch editing

Movavi Photo Batch can help you process multiple photos with the same settings and organize your photo collection.

Add files

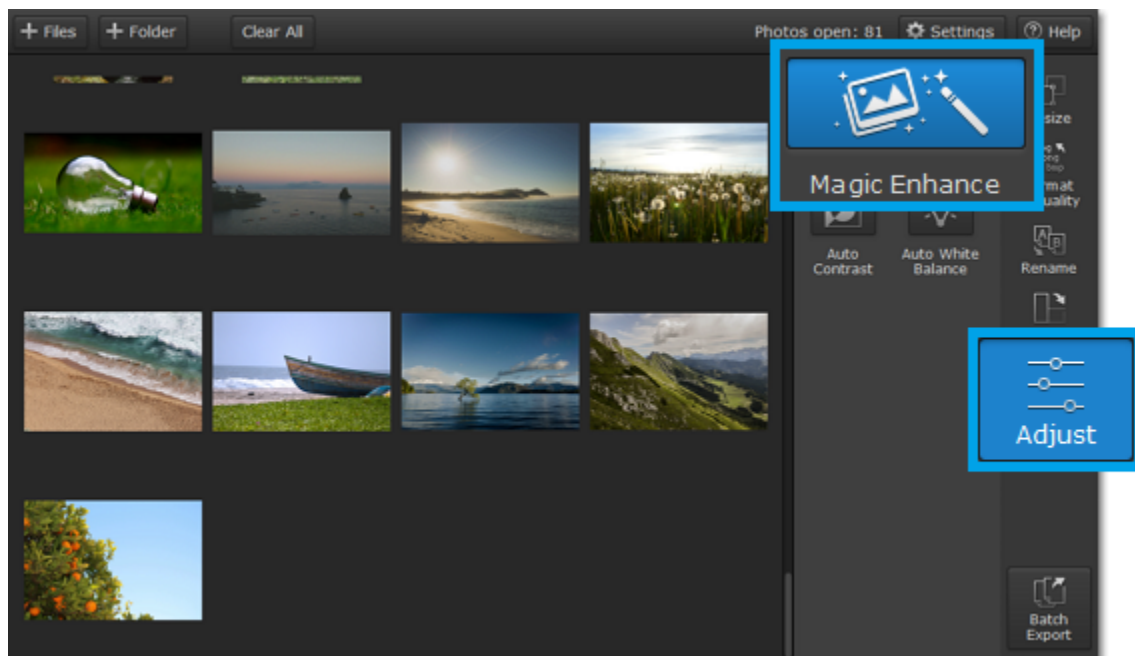
Drag and drop the files you want to edit from Windows Explorer, or use the **+File** and **+Folder** buttons to add individual files and entire folders.



Adjust photos

Switch to the **Adjust** tab and choose the enhancements you want to apply to the photos. Use the automatic contrast and white balance adjustments, or click **Magic Enhance** for a fully automatic color correction.

[Batch adjustments](#)

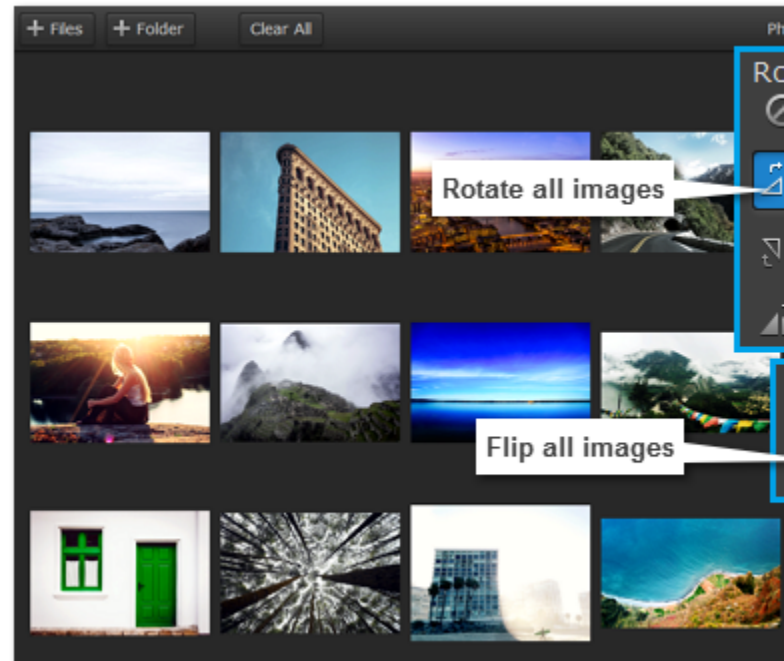
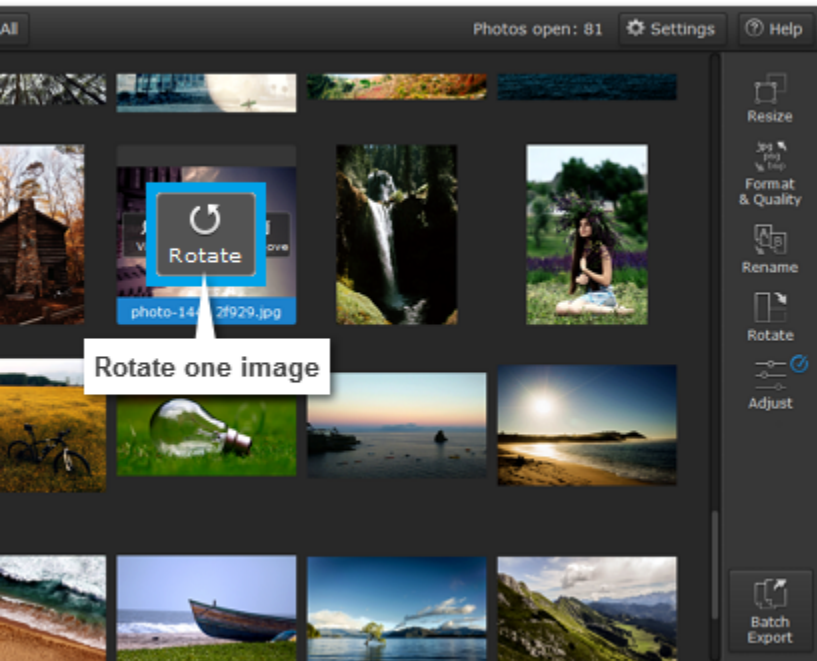


Rotate images

To rotate individual images, hover your mouse pointer over an image's thumbnail and click the **Rotate** button.

To rotate all images in the list, go to the **Rotate** tab and choose the necessary rotation angle.

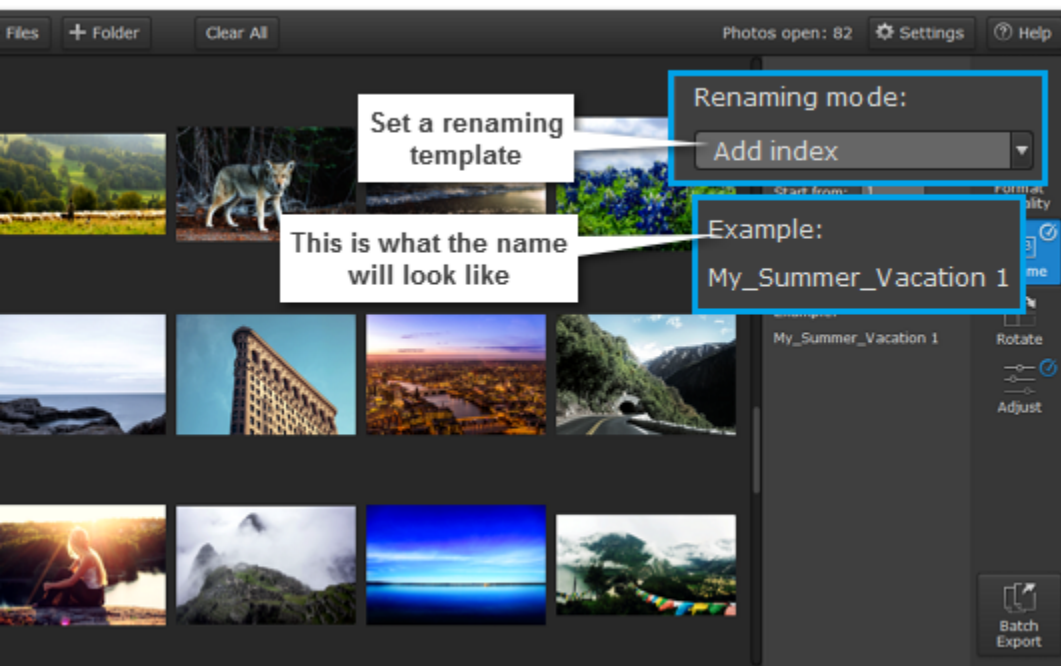
[Rotating lots of images](#)



Rename images

If you have several photo sets from different cameras, or if you want to clean up your photo archive, you can set a template to rename all images in the list. Go to the **Rename** tab and choose how you want to rename the files. You can number your photos for efficient sorting, make uniform filenames for all of your photos, and label them with the date and time when they were taken.

[Batch renaming](#)

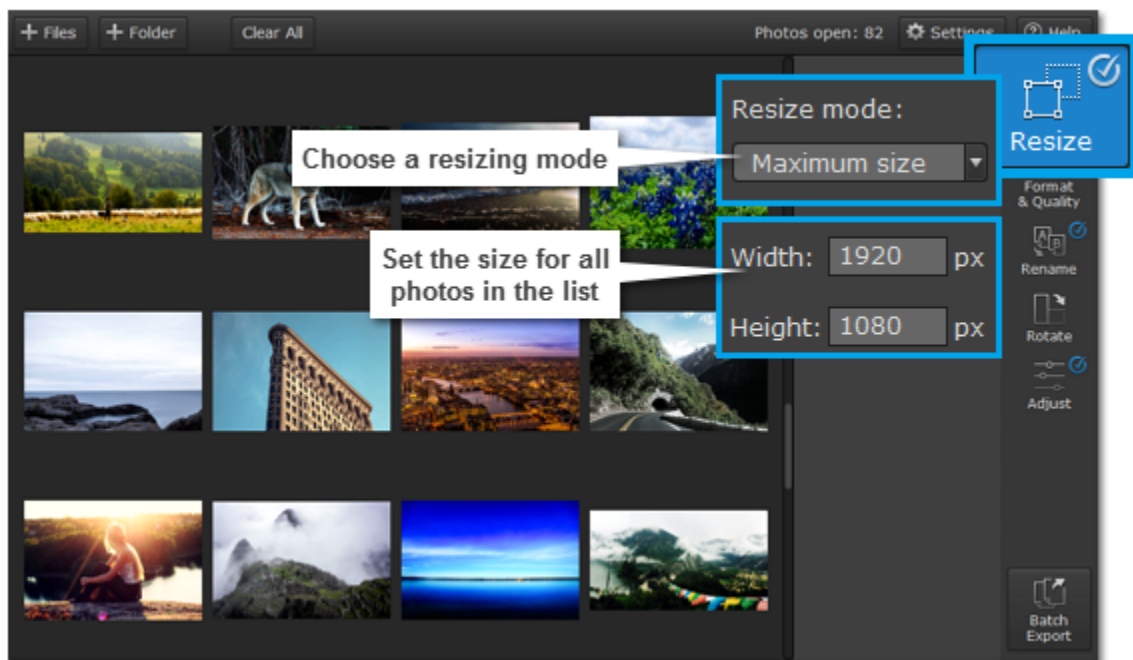


| | | | |
|--|---------------------------|------------------|----------------|
| | My_Summer_Vacation 1.jpg | Type: JPEG image | Date taken: 12 |
| | My_Summer_Vacation 2.jpg | Type: JPEG image | Date taken: 12 |
| | My_Summer_Vacation 3.jpg | Type: JPEG image | Date taken: 12 |
| | My_Summer_Vacation 4.jpg | Type: JPEG image | Date taken: 12 |
| | My_Summer_Vacation 5.jpg | Type: JPEG image | Date taken: 14 |
| | My_Summer_Vacation 6.jpg | Type: JPEG image | Date taken: 14 |
| | My_Summer_Vacation 7.jpg | Type: JPEG image | Date taken: 14 |
| | My_Summer_Vacation 8.jpg | Type: JPEG image | Date taken: 14 |
| | My_Summer_Vacation 9.jpg | Type: JPEG image | Date taken: 14 |
| | My_Summer_Vacation 10.jpg | Type: JPEG image | Date taken: 14 |
| | My_Summer_Vacation 11.jpg | Type: JPEG image | Date taken: 14 |
| | My_Summer_Vacation 12.jpg | Type: JPEG image | Date taken: 14 |
| | My_Summer_Vacation 13.jpg | Type: JPEG image | Date taken: 17 |
| | My_Summer_Vacation 14.jpg | Type: JPEG image | Date taken: 17 |

Resize images

Use the **Resize** tab to scale all of the photos to the same size.

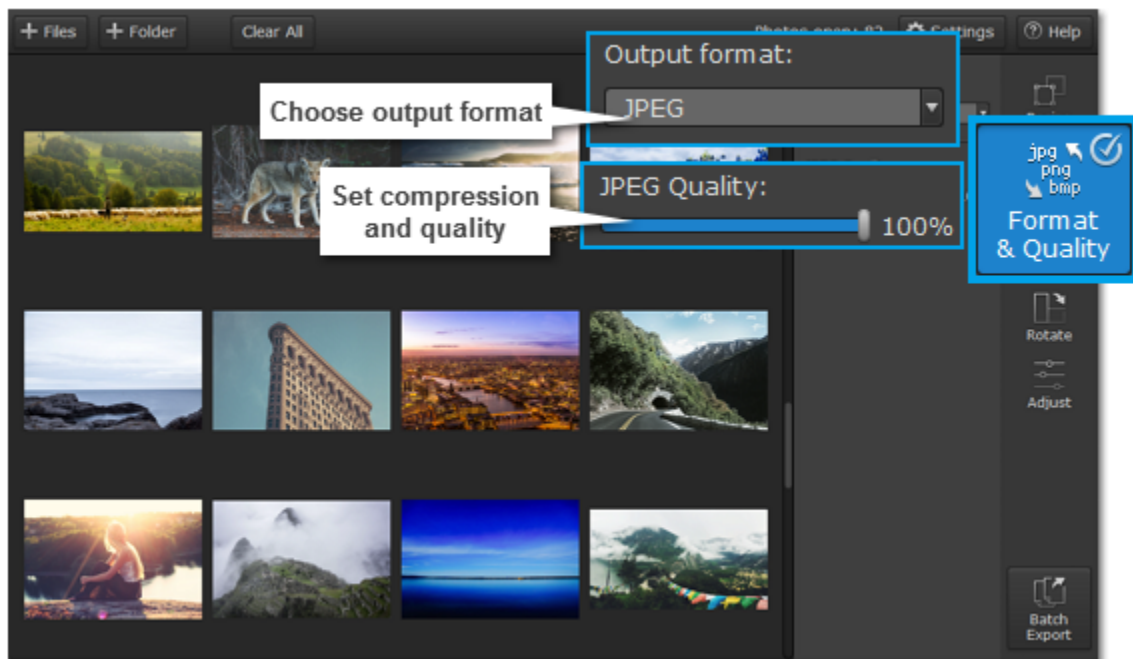
[Resizing and scaling images](#)



Convert images

The **Format and Quality** options let you save the photos in a different format and manage their quality.

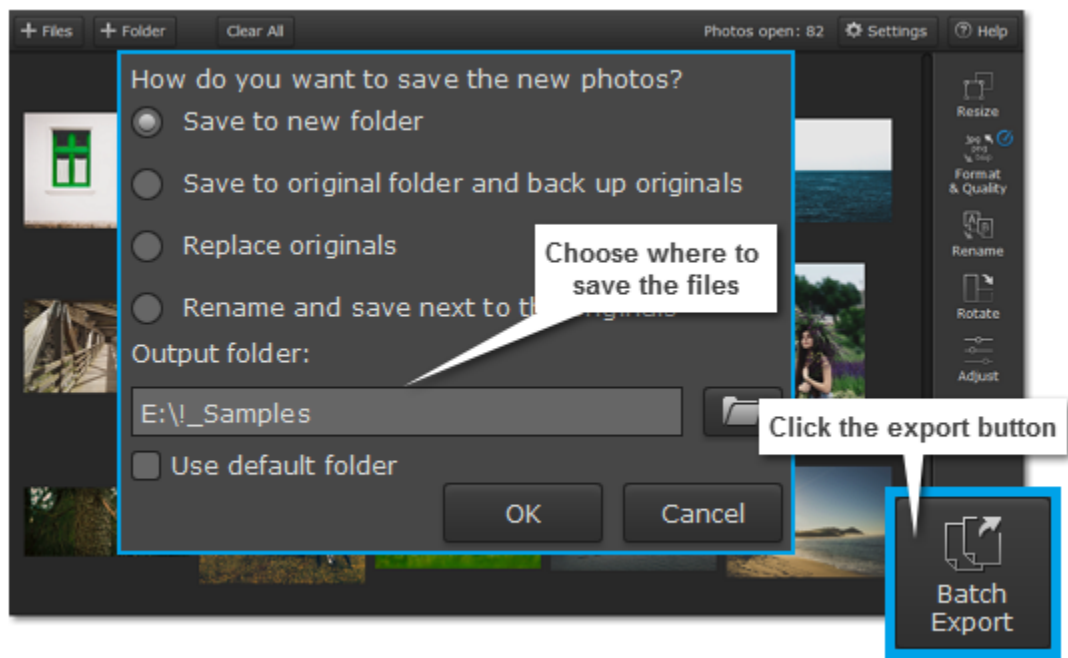
[Converting images](#)



Export images

Finally, when you have reviewed all the settings, click the **Batch Export** button and choose where you want to save the processed images.

[Export images](#)



Trial limitations

When you first install a copy of Movavi Software, it will be running in **LIMITED TRIAL MODE**. In Trial Mode, you can try all the features, but you will only be able to process **up to 100 photos**.

[Get an Activation key](#)

If you have already purchased the program, all you need to do is activate it using the key you received after completing the purchase.

[Activation guide](#)

Open photos

To open lots of photos at once for batch editing, use one of the following ways:

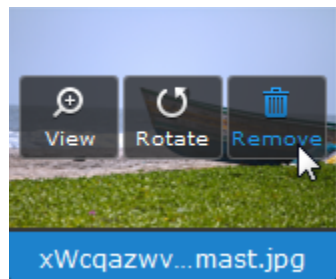
- Click **+Files** to add several files from the same folder.
- Click **+Folder** to add the contents of a whole folder or several folders.
- Open Windows Explorer and drag the files you want to edit onto the Photo Batch window.



Removing photos from the list

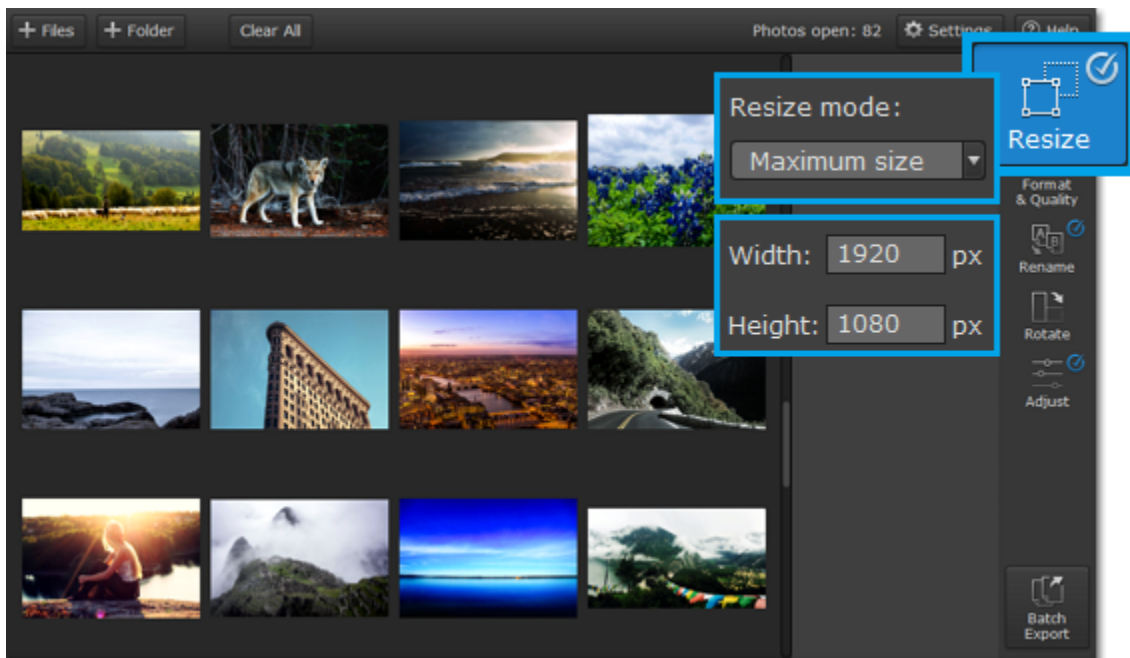
Perhaps you don't need to edit all of the photos that you've added from a folder. To remove a photo:

1. Hover your mouse over the photo you want to remove.
2. Icons will appear on top of it. Click the **Remove** button to remove the image from the list.



Resize photos

The **Resize** tab allows you to make all of your photos fit certain size dimensions.



1. Click the **Resize** tab on the right to open resizing options.

2. Open the list and select a resizing method:

Keep original size: all images will retain their original size.

Scale to width: all images will be scaled to match the specified width. The height for each image will be calculated based on its original proportions.

Scale to height: all images will be scaled to match the specified height. The height for each image will be calculated based on its original proportions.

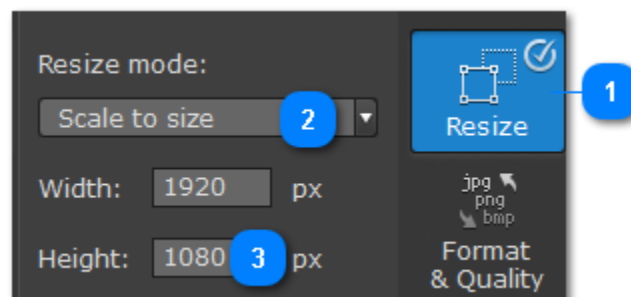
Scale by percentage: all images will be scaled based on specified percent, maintaining original proportions.

Scale to size: scales all images to the specified dimensions, maintaining their proportions.

Maximum size: scales all images down to fit inside the specified dimensions. If an image is already smaller than the maximum size, it will remain unchanged, while larger images will be scaled down.

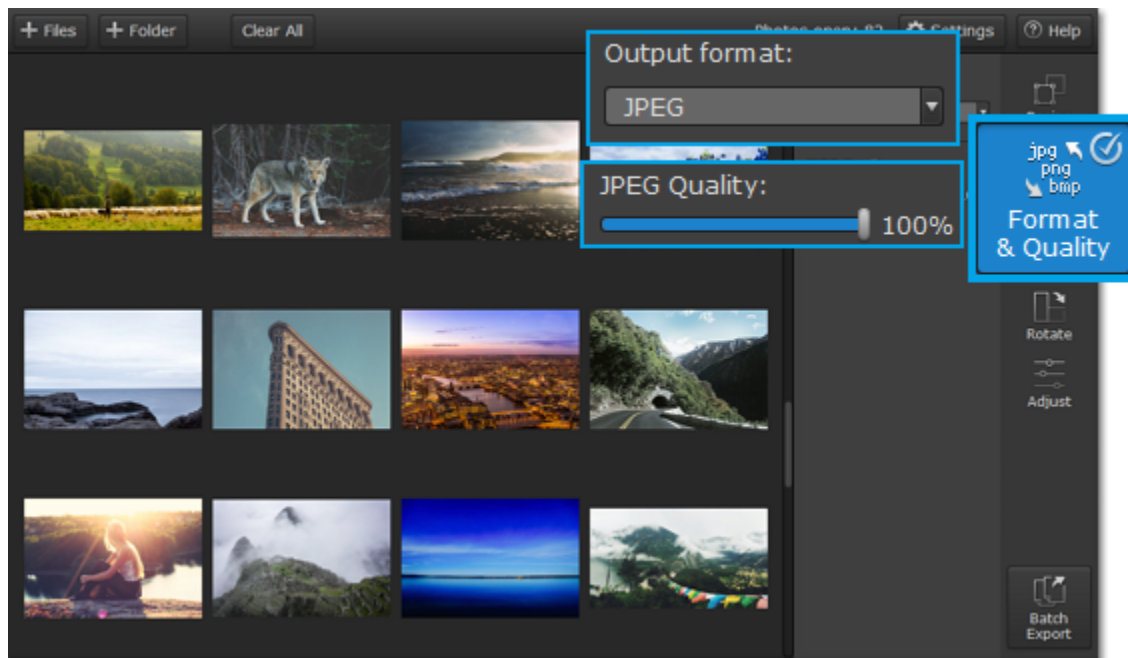
Custom size: allows you to freely set the size for all photos, without maintaining proportions.

3. Enter the new dimensions into the respective fields.

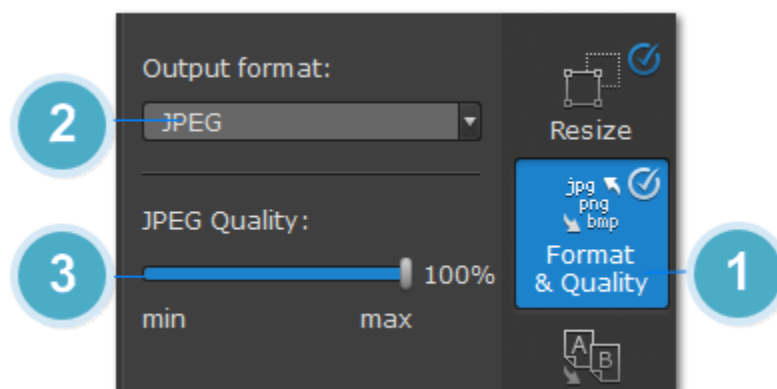


Convert photos

The **Format and Quality** tab allows you to convert images from one format into another.

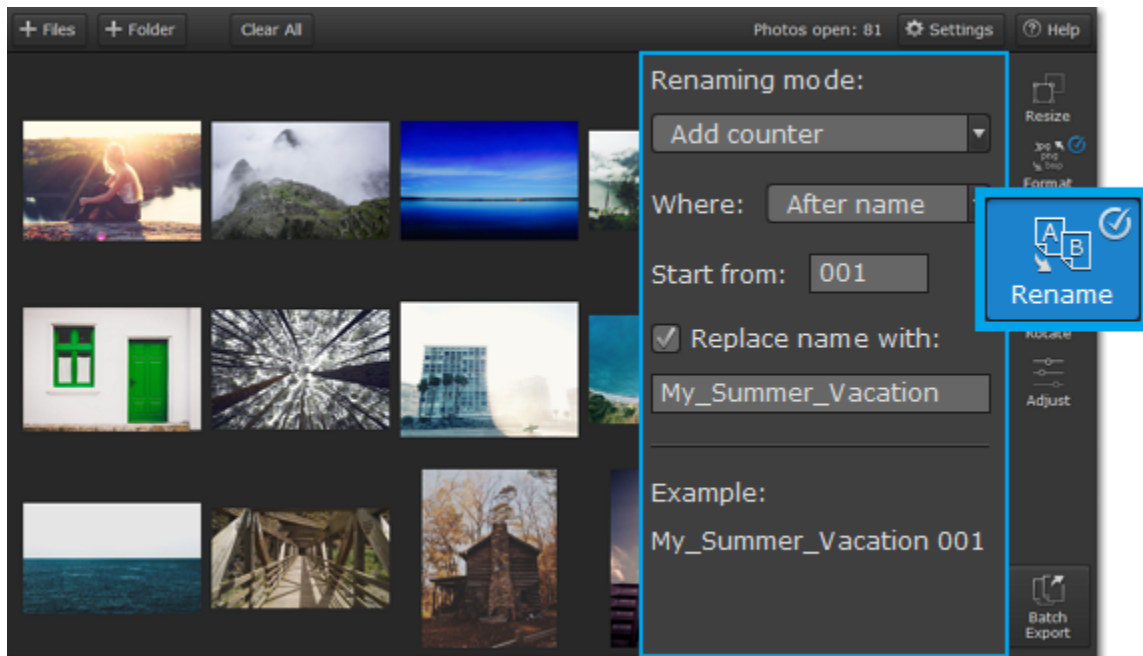


1. Switch to the **Format & Quality** tab in the right-hand side of the window.
2. Open the list of formats and choose the format you'd like to convert the images into.
3. Some image formats allow you to change the compression level for saving the images – this way you can manage the balance between file size and quality:
 - **JPEG**: drag the quality slider to set the necessary quality. The higher the quality, the larger the output file will be, and the lower the quality, the more likely the image will have visual artefacts, such as off colors or pixellization.
 - **TIFF** allows you to select one of the available compression methods:
 - **Uncompressed**: no compression method will be used. The image will be much larger in size than its compressed copies, but uncompressed images with large resolutions may be processed faster by some software.
 - **PackBits**: offers less compression than LZW, but is the most widely supported compression method, especially on Apple software.
 - **LZW**: compresses the image to about half size compared to the same uncompressed image.
 - **ZIP**: best for working with 16-bit images and average for 8-bit images.



Rename photos

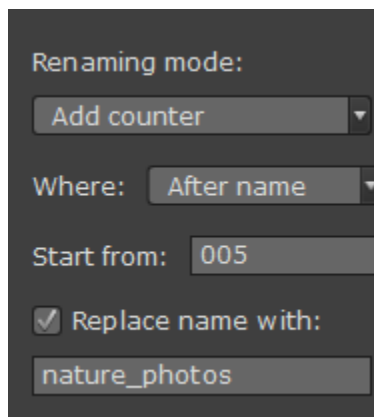
In the **Rename** tab, you can choose a template for renaming all of the currently open images. You can change the original name, number your photos, or add a date or free text to the photos.



Rename tab

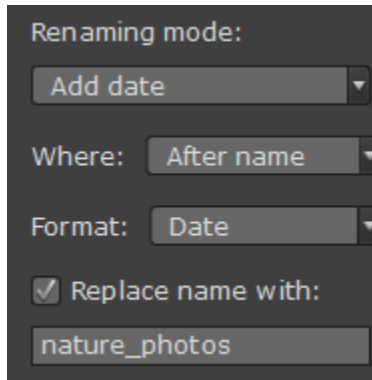
Numbering your photos:

1. Switch to the **Rename** tab.
2. Open the **Renaming Mode** list and choose **Add index** or **Add counter**:
 - **Add index** – adds a simple number to each photo in the following format: 1, 2, 3, 4, 5, 6... Most file managers do not sort such sequences correctly, listing 10 after 1.
 - **Add counter** – adds a number with leading zeroes to each photo in the following format: 001, 002, 003, 004... This format allows file managers to correctly sort the photo series.
3. In the **Where** option, choose whether you want to add the number before or after the original file name.
4. If your photo series does not start from the beginning, you can set the first number in the **Start from** field.
5. If you also want to change the main part of the file name that comes before or after the number, select the **Replace name with** option, and enter the new file name into the corresponding field. This is especially helpful if the old filename already contains numbering, but it is incorrect, or if you've deleted some photos but want the numbering to stay intact.



Adding date and time:

1. Switch to the **Rename** tab.
2. Open the **Renaming mode** list and choose **Add date**. The date is extracted from the photo's EXIF data and shows the date the picture was taken or created.
3. In the **Where** option, choose whether you want the date to be appended before or after the original file name.
4. In the **Format** list, choose whether you want to add the date, time, or both.
5. If you also want to change the main part of the filename, select the **Replace name with** option, and enter the new name into the corresponding field. This way, you can name the photos after the location where they were taken.



Renaming mode:

Add date

Where: After name

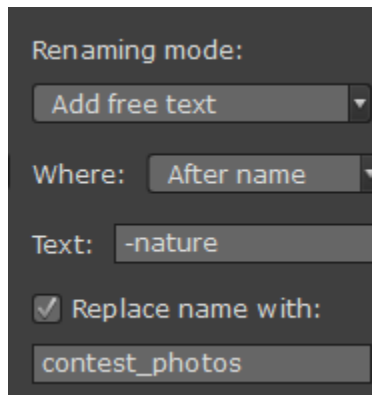
Format: Date

☒ Replace name with:

nature_photos

Adding text to the file name:

1. Switch to the **Rename** tab.
2. Open the **Renaming mode** list and choose **Add free text**.
3. In the **Where** option, choose whether you want the text to be appended before or after the original file name.
4. In the **Text** field, enter the text you want to append to the file name.
5. If you need to completely replace the old file name, select the **Replace name with option** and enter the new name.



Renaming mode:

Add free text

Where: After name

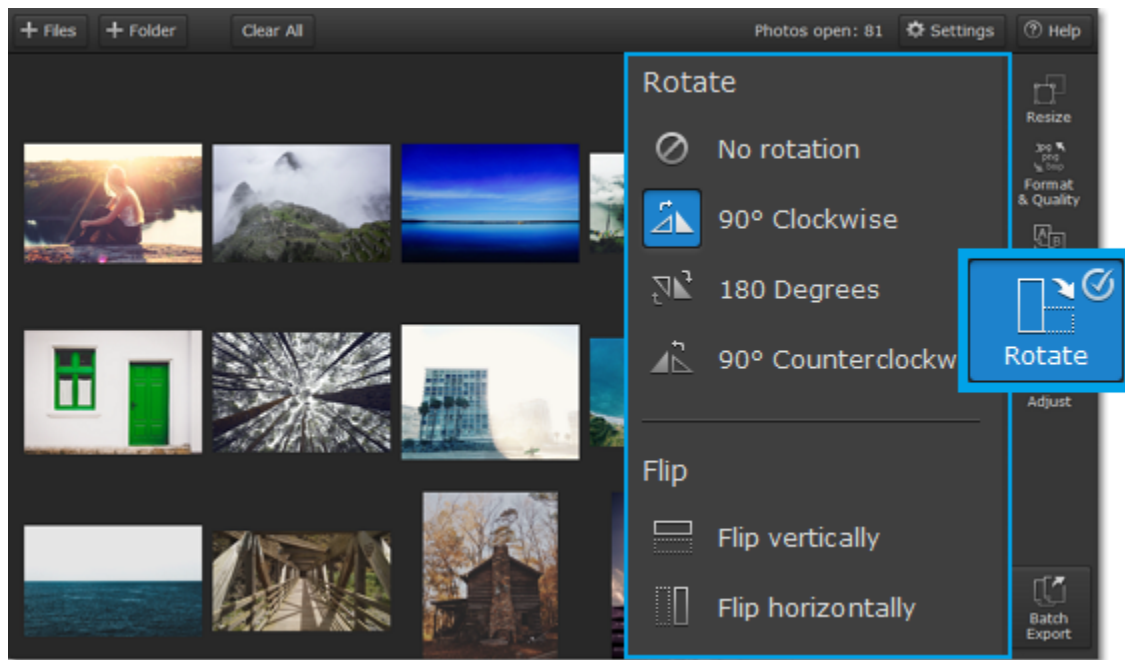
Text: -nature

☒ Replace name with:

contest_photos

Rotate photos





Use the Rotate tab to rotate the images by 90 degrees and mirror all of the images in the list.





Rotate tab

Rotating all images:

The **Rotate** tab contains options for rotating or flipping all currently open images. Click the corresponding button to rotate the image to the necessary angle.

-  Keep the original orientation of images
-  Rotate the images 90° clockwise (to the right)
-  Rotate the images by 180°
-  Rotate the images 90° counterclockwise (to the left)

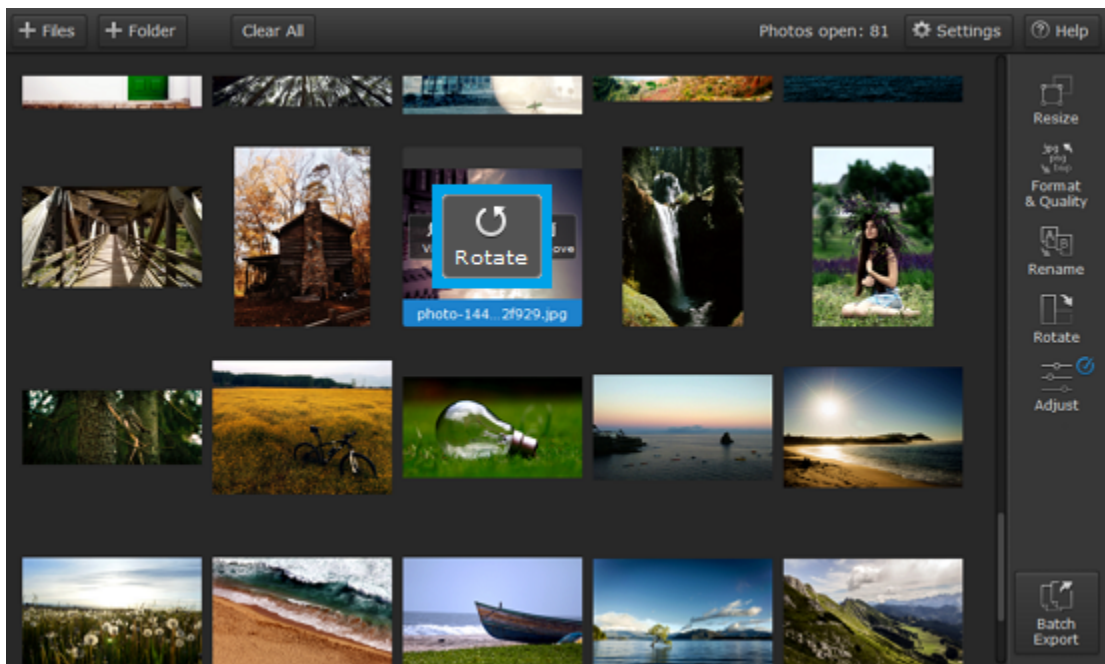
You can select only one rotation option at a time.

-  Flip all of the images horizontally (upside-down)
-  Flip all of the images vertically (left to right)

You can combine one or both flip options with one rotation option.

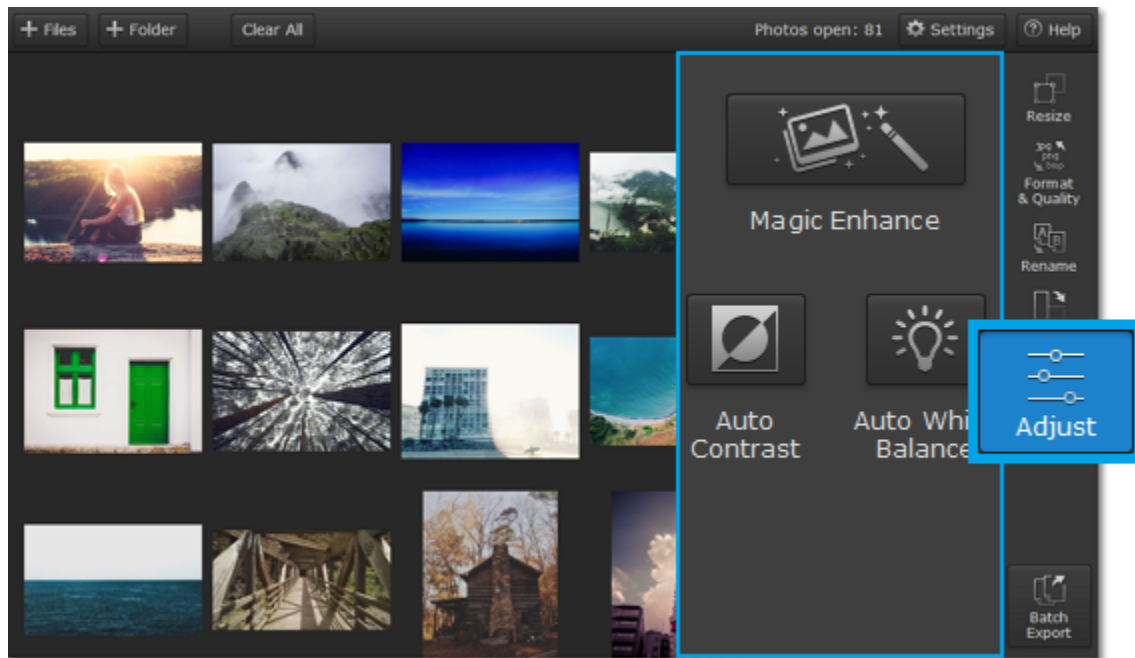
Rotating individual images:

If you only need to rotate one or several images, you can rotate the photos one by one. To do that, hover your mouse pointer above the image you want to rotate and click the **Rotate** button on the image's thumbnail. You can also rotate images from the Preview window.



Adjust photos

The Adjust tab allows you to apply instant automatic enhancements to all of the images. Movavi Photo Batch will automatically analyze the photos and use the most appropriate levels of brightness, contrast, saturation, and white balance to help you achieve perfect photos.



Adjust tab

Magic Enhance – automatically adjusts the brightness, saturation, and white balance of all photos.

Auto Contrast – automatically fixes the contrast for all images.

Auto White Balance – automatically detects the white balance in the photos and shifts the lighting in the photos to make them look more natural.

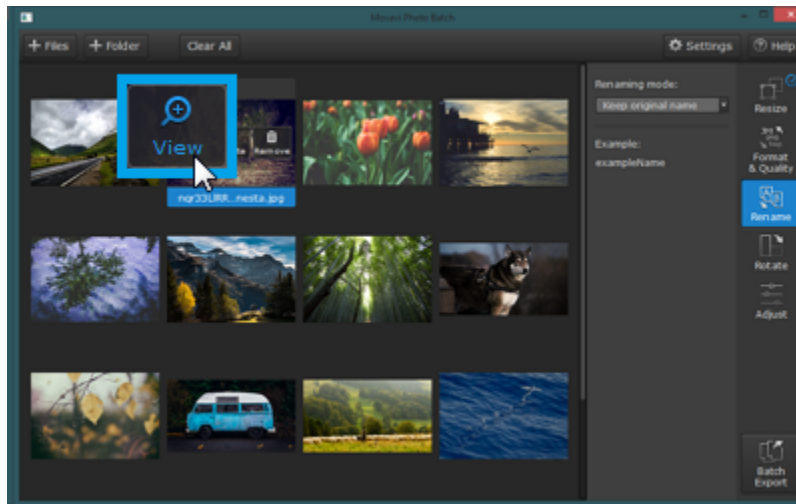
You can select both **Auto Contrast** and **Auto White Balance** at the same time, or use **Magic Enhance** to make fully automatic adjustments.

Preview images

When you open a photo series in Movavi Photo Batch, you can see all of the photos at a glance in the file list. However, you can also view the photos individually in a larger size.

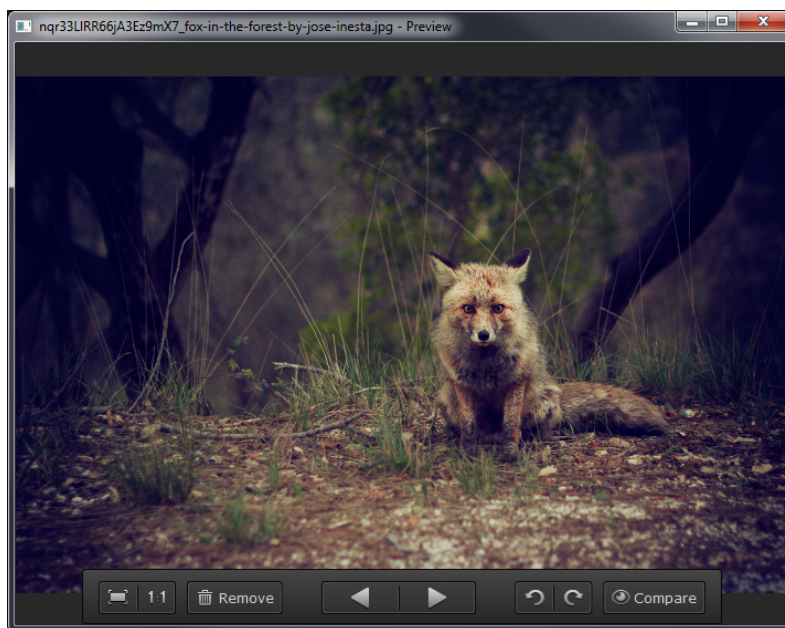
Opening the Preview window:

1. Hover your mouse pointer over an image in the file list. The **View**, **Rotate**, and **Remove** buttons will appear.
2. Click the **View** button to open the selected image in a larger preview window.



The Preview window:

In the Preview window, you can view the image in a larger size and manage images in the file list.



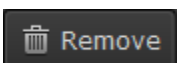
Use the following buttons to manage the preview:



Sets a zoom level at which the entire image fits inside the preview window



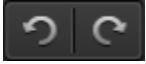
View the image in its actual size



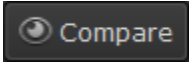
Remove the image from the file list



Move between photos in the file list



Rotate the photo 90° counterclockwise or clockwise



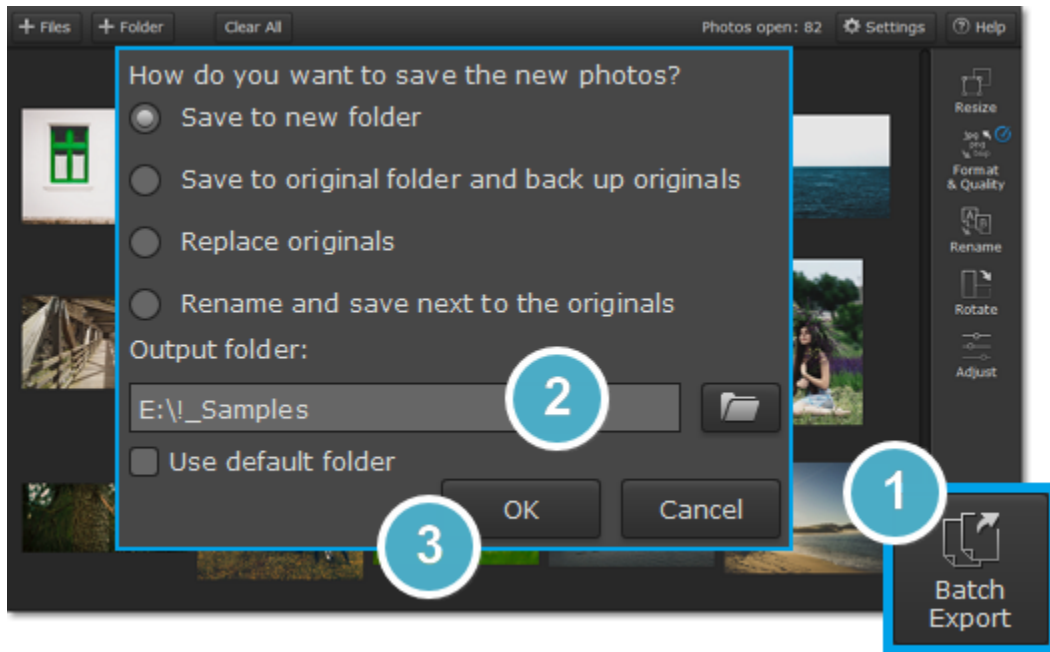
Hold down this button to view the original image, before applying any settings or effects.

Export photos

After you've selected the necessary adjustments for your photos, it's time to export them.

Step 1: Open the Export window

Click the **Batch Export** button in the bottom right-hand corner of the main window to open export options.



Step 2: Choose where to save the files

Choose one of the available options of saving the processed photos:

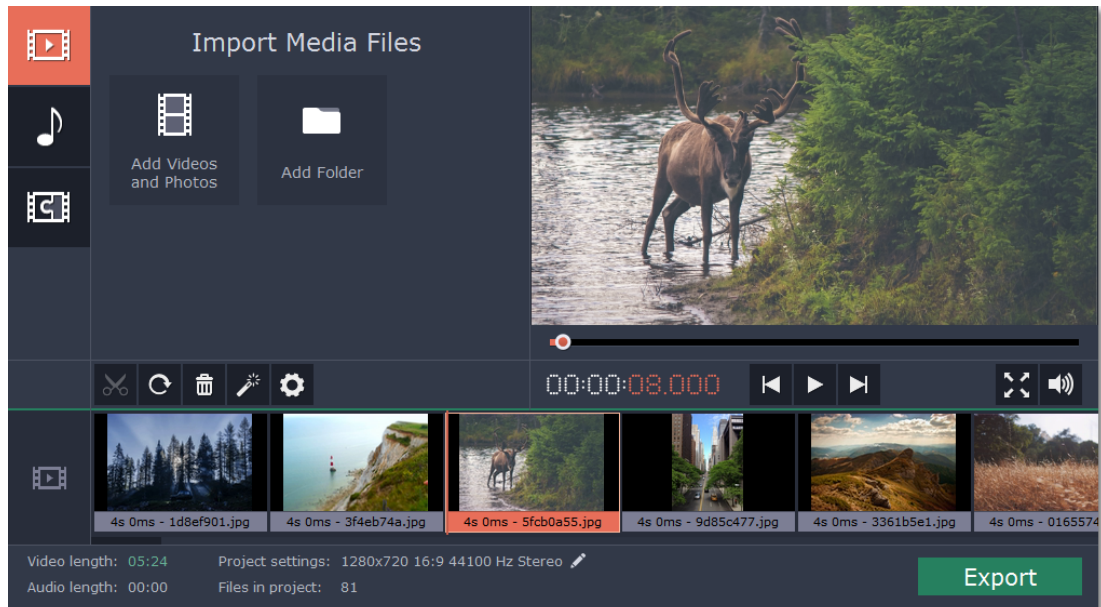
- **Save to new folder** – the processed photos will be stored in the folder specified in the field below.
- **Save to original folder and back up originals** – the original photos will be moved to the folder specified in the field below, while the processed photos will be stored in the original folder.
- **Replace originals** – the processed photos will be saved to the original folder, while the original photos will be deleted. We recommend that you only use this option if you are sure you will not need the original photos.
- **Rename and save next to the originals** – Both the original photos and the processed photos will be stored in the same folder. The processed photos will have a number, e.g. '(1)' added to the file name.

Step 3: Start exporting

Finally, Click OK to start the exporting process. This may take up to a couple minutes if you are working with many large photos.

Slideshow Creator

Using Movavi Slideshow Creator, you can arrange your photos into an animated slideshow with music and transitions.



Don't know where to start?

Read the [Quick Start Guide!](#)

[Step 1: Create a project](#)

[Step 2: Add files](#)

[Step 3: Edit slides](#)

[Step 4: Add music](#)

[Step 5: Add transitions](#)

[Step 6: Save your slideshow](#)

Movavi Slideshow Creator

Quick Start Guide

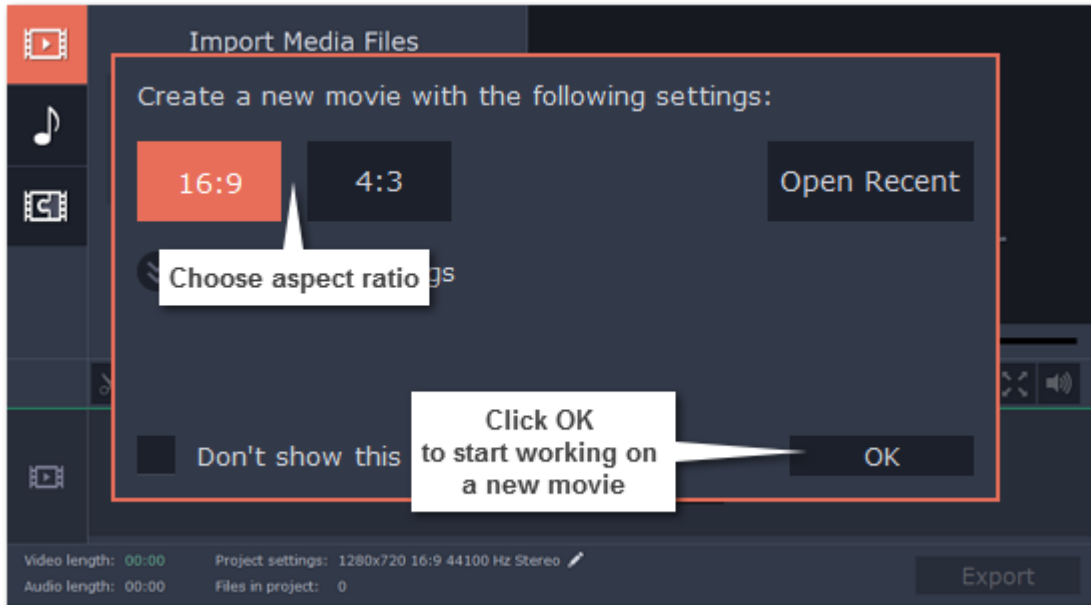
Movavi Slideshow Creator lets you create video slideshows with your photo albums, complete with background music and smooth transitions.

Step 1: Create a project

When you first start Slideshow Creator, you will be asked to choose an aspect ratio for your slideshow. This depends on the proportions of the photos you'll be using. Most modern monitors have a 16:9 aspect ratio.

You will be able to change this later.

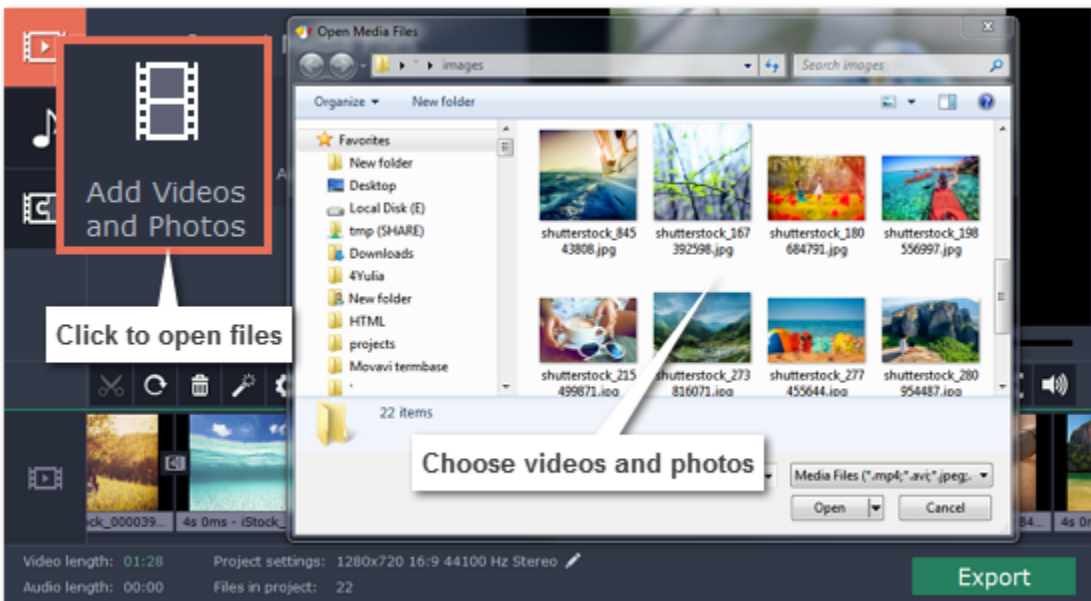
[Learn more about creating a project and aspect ratio](#)



Step 2: Add files

In the **Video & Photo** tab, click **Add Videos and Photos** to choose the files you'll be using, or click **Add Folder** to add an entire photo album.

[Learn more about adding mediafiles](#)



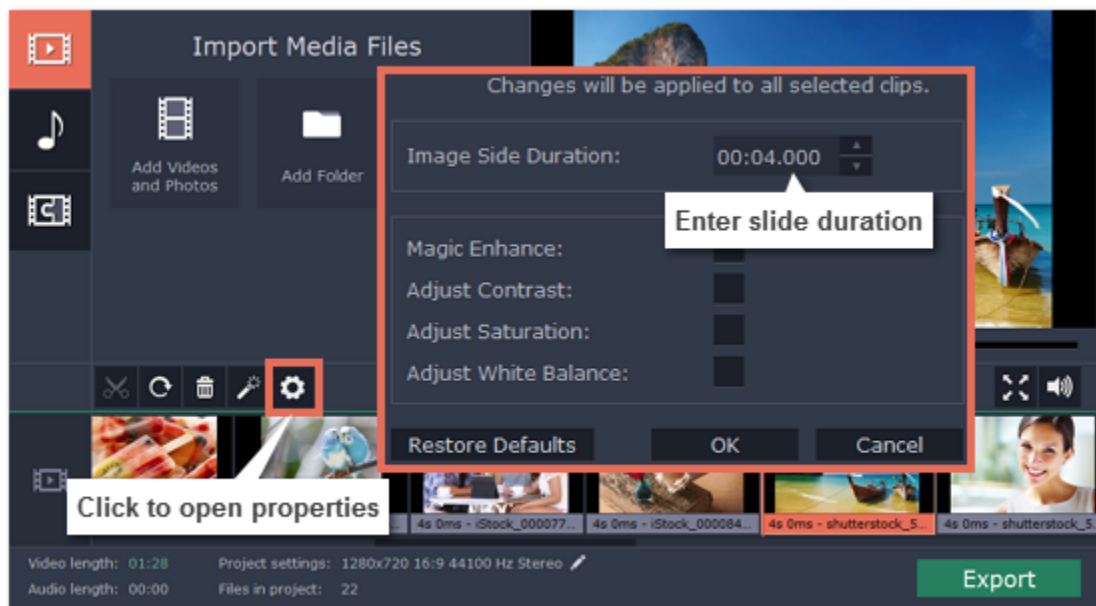
Step 3: Arrange files

The clips you add will be placed onto the Storyboard in the same order as you added them. To rearrange the files, simply drag-and-drop their thumbnails onto the correct place relative to the other clips.



Step 4: Set slide duration

By default, all photo slides will be shown for four seconds each. To change that, click the cogwheel button to open **Clip Properties**, and enter a new **Image Slide Duration**.

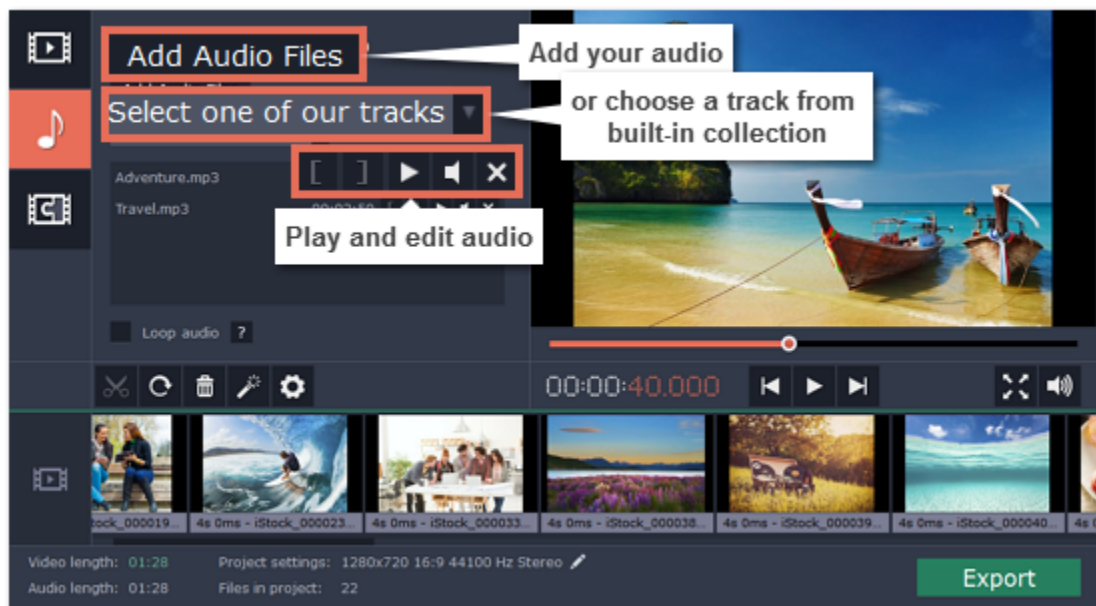


Step 5: Add music

Next, switch to the **Audio** tab, where you can add background music. We've included a few pre-made songs that you can use in your projects. To add your own songs, click **Add Audio Files** and choose the audio files you want to add.

The tracks will be played in the same order as they appear in the list. To trim a track, start playing the song, and click the left or right bracket button to trim it from the beginning or from the end, respectively.

[Learn more about adding background music](#)

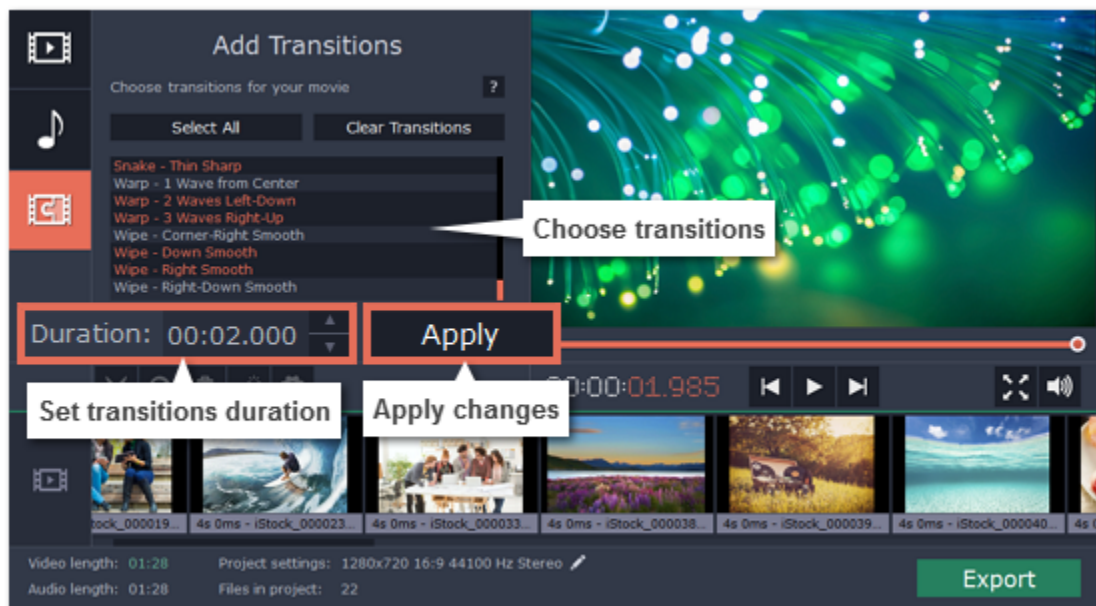


Step 6: Choose transitions

Switch to the **Transitions** tab, where you can choose animations to smoothly join the slides.

Select the transitions you like from the list – click on a transition to preview it in the player, and Ctrl+click to select multiple transitions. Then, set the duration for each transition, and click **Apply** to accept the changes and add the transitions to your slideshow.

[Learn more about adding transitions](#)

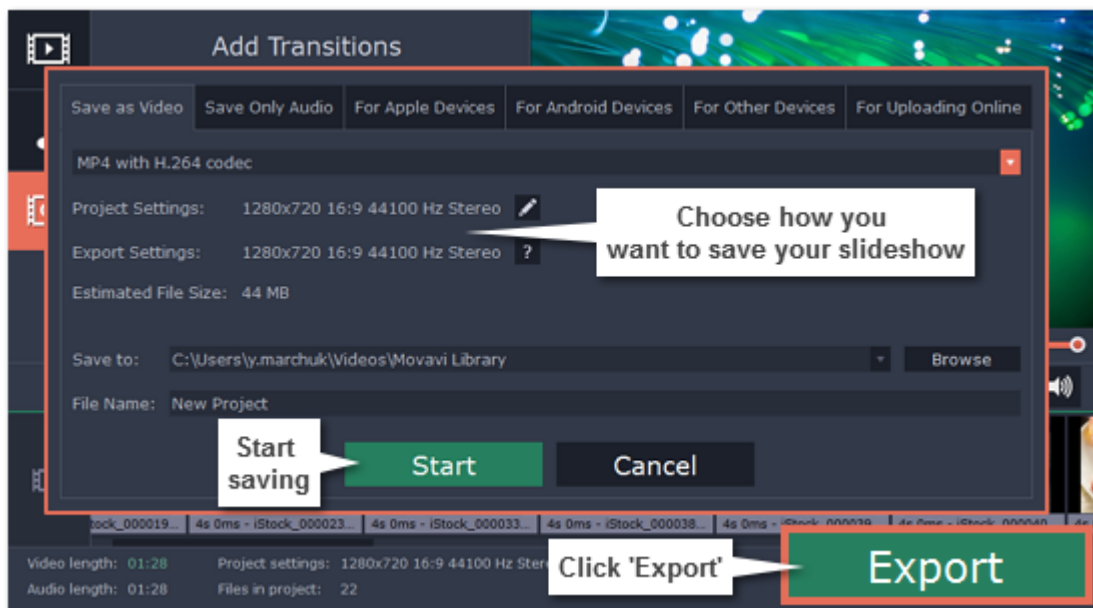


Step 7: Export your slideshow

Make sure to save your work once in a while: choose Save from the **File** menu to save the slideshow project so that you can access it later.

When you're done with the slideshow, click the **Export** button to open the exporting options. In the **Export** window, choose a format you want to save the video in, and name your slideshow. Finally, click **Start** to begin processing the video. Your slideshow will be ready in a few minutes.

[Learn more about saving slideshow](#)

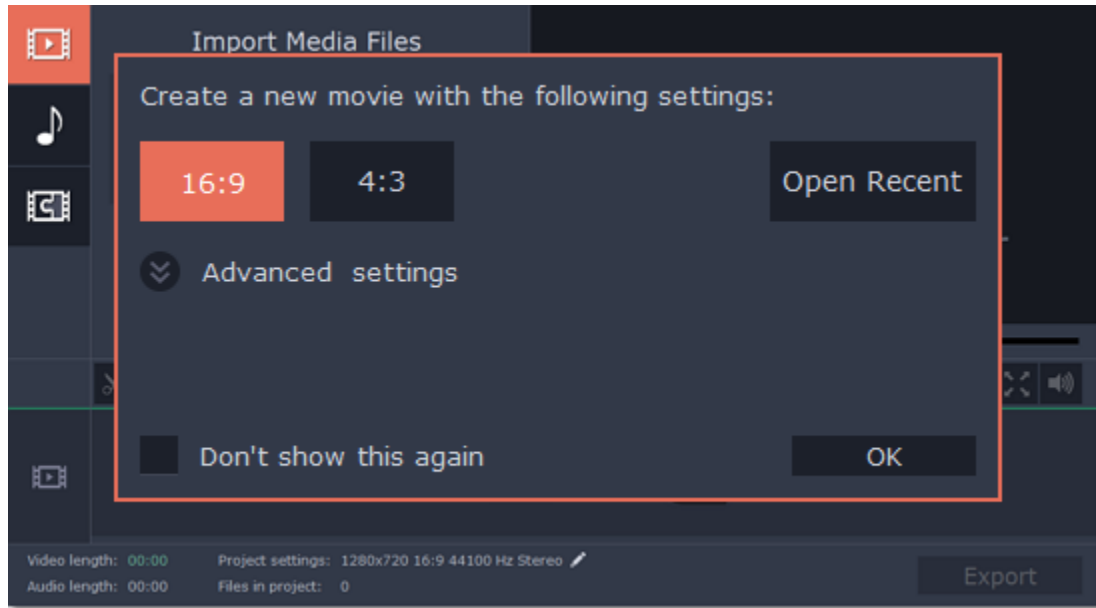


Create a project

When you open Movavi Slideshow Creator, you will be offered to create a new slideshow project.

Creating a new project

1. To start a new project, open the **File** menu and choose **New Project**. You will see the same window as you did at startup.



2. In the **New Project** window, choose the aspect ratio for your new project. The aspect ratio defines the proportions of the video. Click **16:9** or **4:3** to select the aspect ratio that best suits your needs.

- **16:9** is commonly used for widescreen video, and most computer monitors and TVs also use this aspect ratio.
- **4:3** is very commonly used in photo cameras. Chances are, most of your photos also have this aspect ratio, so you will be able to fit the photos inside the video frame without black bars. Furthermore, Apple iPads also use this aspect ratio, so you will be able to view the slideshow on these devices.



Visual comparison

3. Finally, click **OK** to start working on your project.

Saving projects

You can save your work on the slideshow in a *project file*, which you can open later to continue working on the slideshow. To do that, open the File menu and choose Save Project. You will be asked to specify a location and a name for the project file.

Please note that the *project file* can only be opened using Movavi Slideshow Creator. If you want to save the slideshow as a video file that can be shared and viewed in players, use the [Export](#) button.

Opening projects

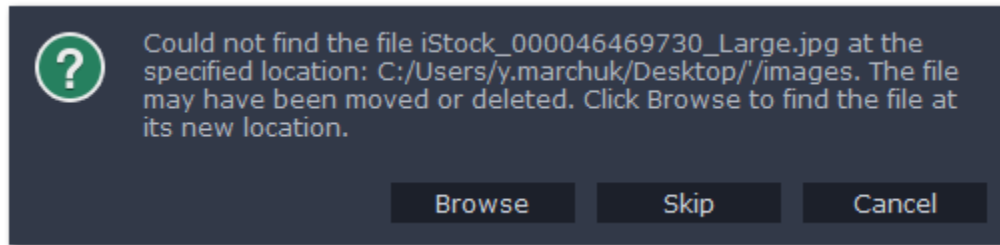
To open a previously saved project, open the **File** menu and choose **Open Project**.

Troubleshooting

Files are missing from the project

When you open a previously created project, you may see a message saying that a file is missing from the project. This may happen if one of the files used in the project has been moved somewhere else? renamed or deleted from disk.

- If the file was moved elsewhere or renamed, click the **Browse** button and locate the file in the Windows Explorer window. After that, you can continue working on the project as usual: the file will be restored in its place on the timeline, as well as any other changes you have made.
- If the file was deleted or you no longer wish to use it in the project, click **Skip** to open the project without the missing file.
- To cancel loading the project, click **Cancel**.



Something has gone wrong and my project was not saved

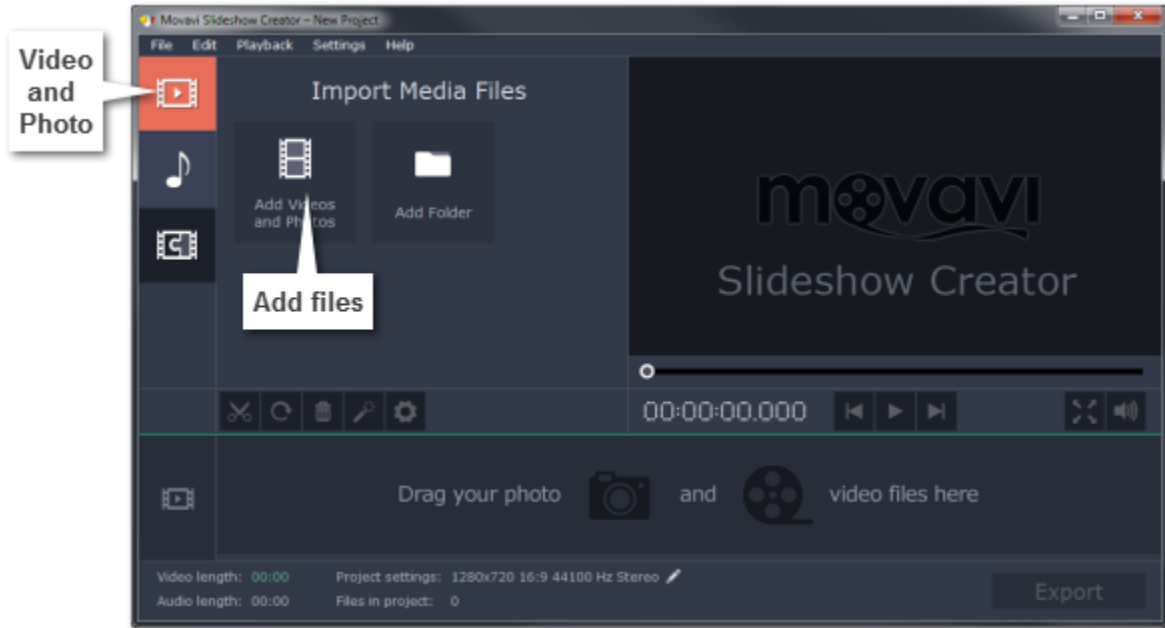
If Movavi Slideshow Creator was closed unexpectedly and you didn't save the latest changes, you can try restoring them from an autosave.

1. Open the '*My Videos\Movavi Slideshow Creator\Projects*' folder of your user.
2. Find the '*autosave*.mep2*' file in this folder and check the date and time when it was created and last modified.
3. If the date and time of the autosave suits you, open this file in Movavi Slideshow Creator and you can continue working on your project.

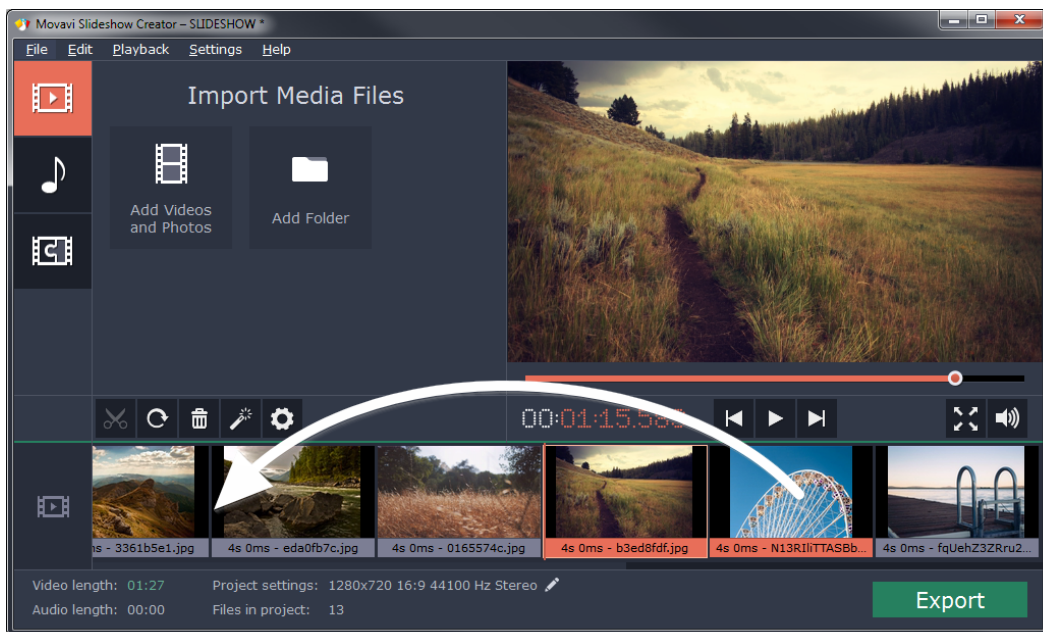
Add mediafiles

To begin working on your video project, you will first need to add some media files to the Slideshow Creator.

1. Open the **Video & Photo** tab. If you have just launched Slideshow Creator, the tab is already opened for you.
2. Click **Add Videos and Photos** to add one or more media files from a single folder, or click **Add Folder** to add all the contents of one or more folders.



The files will then be added onto the **Storyboard** in the same order as you added them, and in the same order as they appeared in the Windows Explorer window. After that, you can simply drag-and-drop the files on the Storyboard to reorder them.



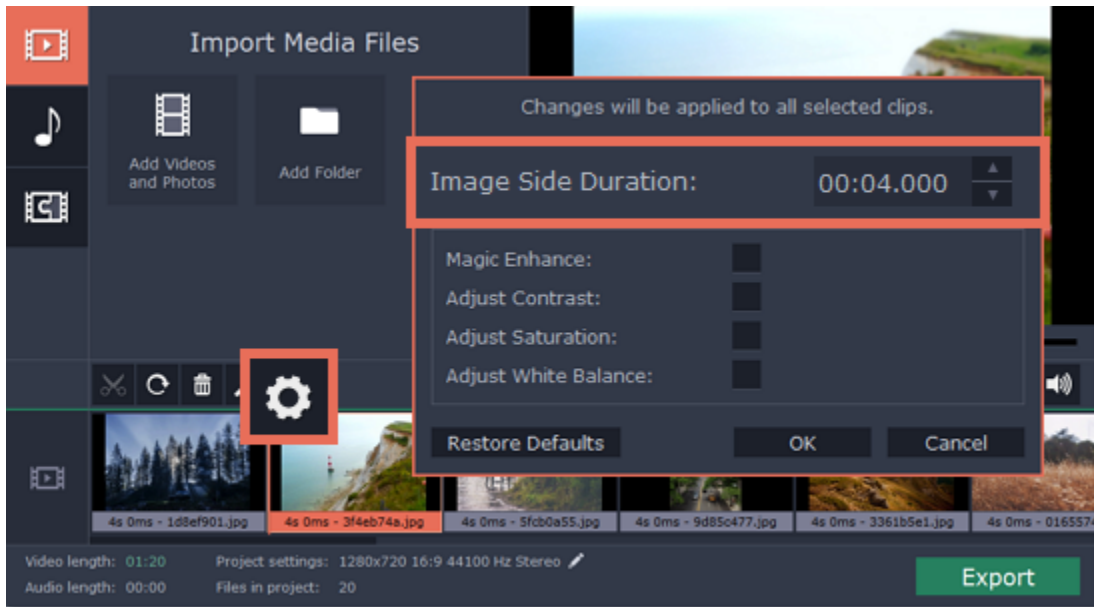
Also, you can drag-and-drop media files onto the Storyboard straight from any Windows Explorer window. For adding audio files, please see the ['Add music'](#) section.

Edit slides

Slide length

To change the duration of each image in your slideshow:

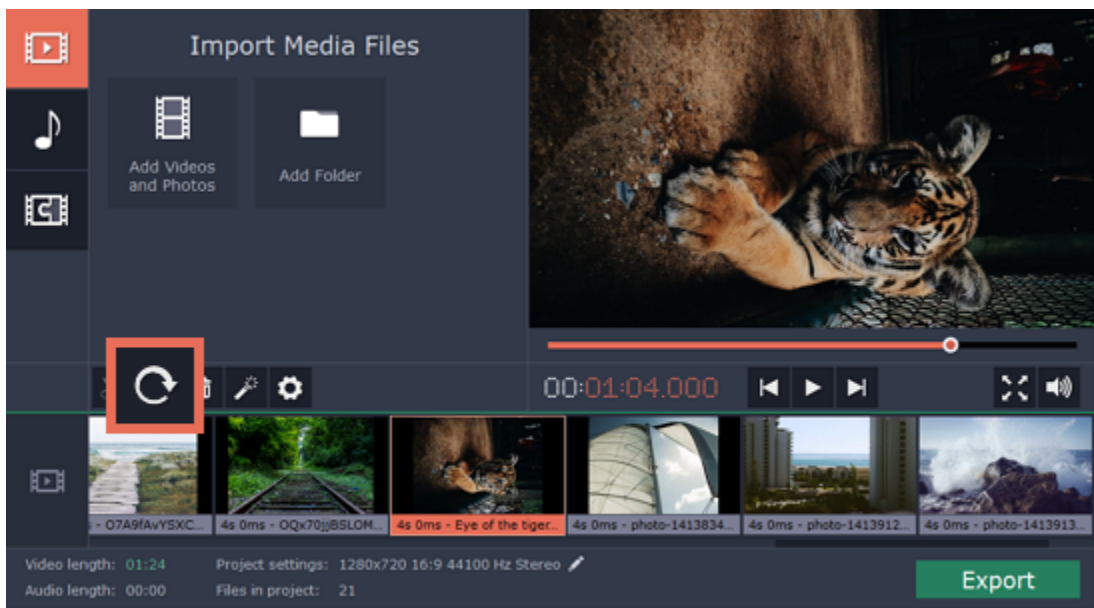
1. On the Storyboard, select the image that you want to edit.
2. Click the cogwheel button on the toolbar to open **Clip Properties**.
3. In the **Clip Properties** window, set **Image Slide Duration** to the necessary length.
4. Click **OK** to accept the changes.



Rotating images

1. On the Storyboard, select the slides that you want to rotate.
2. Click the **Rotate** button on the toolbar.

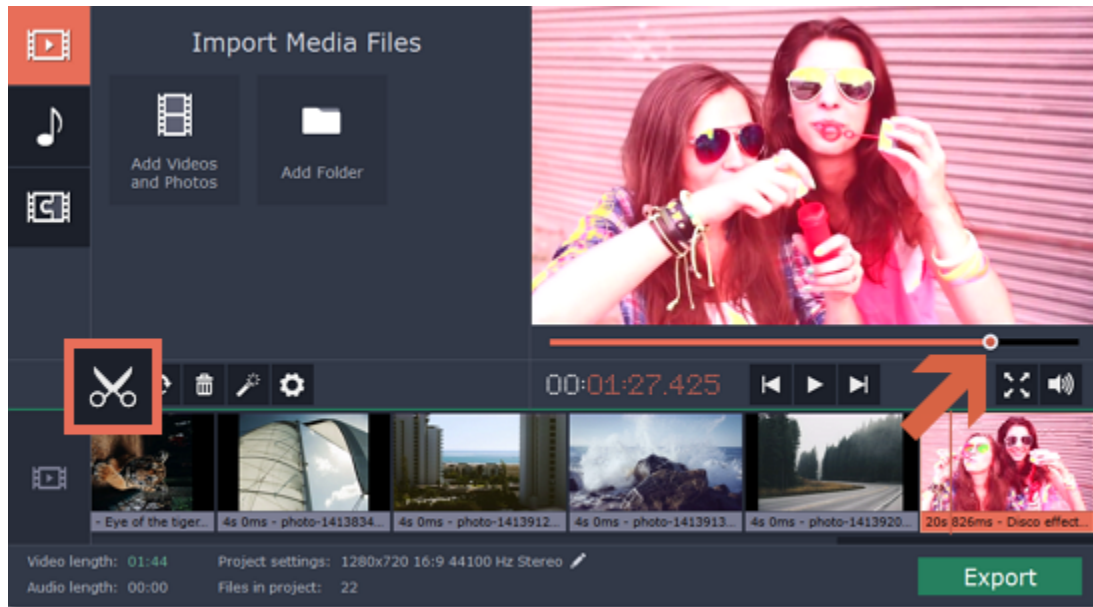
To rotate multiple slides at once, select them while holding down Ctrl key, and then click **Rotate** button.



Cutting clips

1. Move the progress marker onto the moment where you want to cut the clip.
2. Click the Scissors icon on the toolbar.

If you want to cut out a part of a clip, repeat the same steps to cut at the beginning and at the end of the unwanted fragment to cut it off into a separate clip. Then, select this clip and click the Trash can icon on the toolbar.

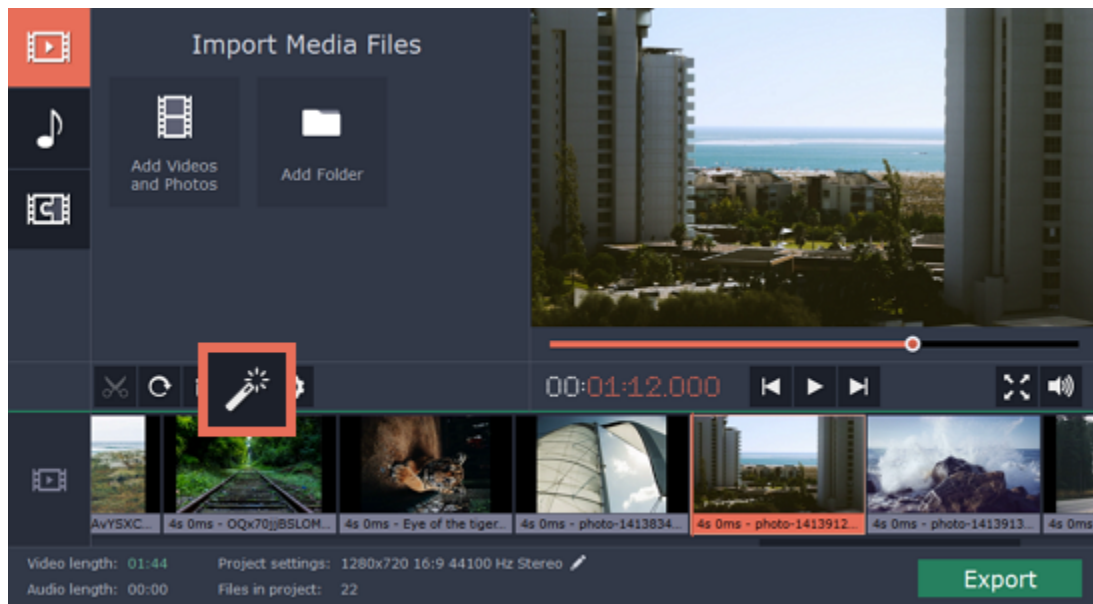


Enhancing images

Using the automatic adjustments in Slideshow Creator, you can quickly improve most photos.

1. On the Storyboard, select the clips that you want to enhance.
2. Click the **Magic Enhance** button to apply automatic color adjustments to this clip.

You can find more adjustment options under Clip Properties (cogwheel button).




Remove black bars

Sometimes, when you add photos to the slideshow project, you may notice that some or all of them have black bars at the sides or at the top and bottom. This can happen because the photos and videos have different proportions. While all slides need to fit into a frame of the same size, some photos will fit in nicely, and other photos that have different proportions, will have some space left over, showing black bars underneath.

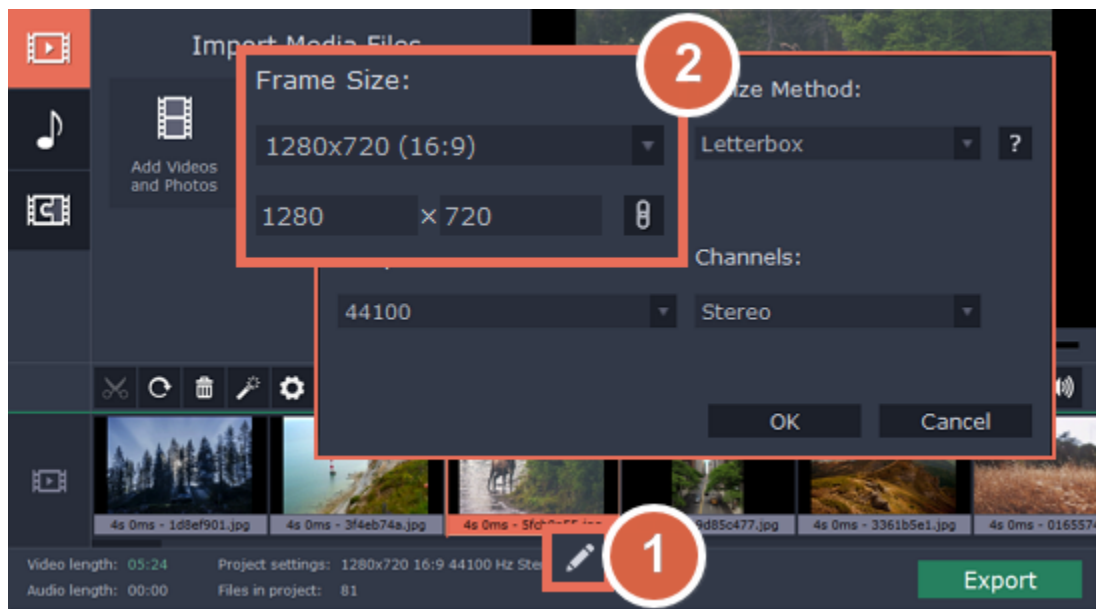
Solution A – Change the aspect ratio

This solution will help if *all* or *most* slides have black bars around them. To solve this, we will change the proportions of the entire project to fit the photos you're using.

1. Click the pencil icon  at the bottom of the window next to **Project Settings**. The Project Settings window will open.
2. In the **Frame Size** box, note the current resolution and aspect ratio. Then, open the box, and select a similar resolution with a different aspect ratio. For example, if you had the 1280x720 (aspect ratio 16:9) frame size, choose the 1280x960 (aspect ratio 4:3) frame size.


Or, if you know the exact sizes of your photos, you can enter the width and height into the corresponding boxes below.

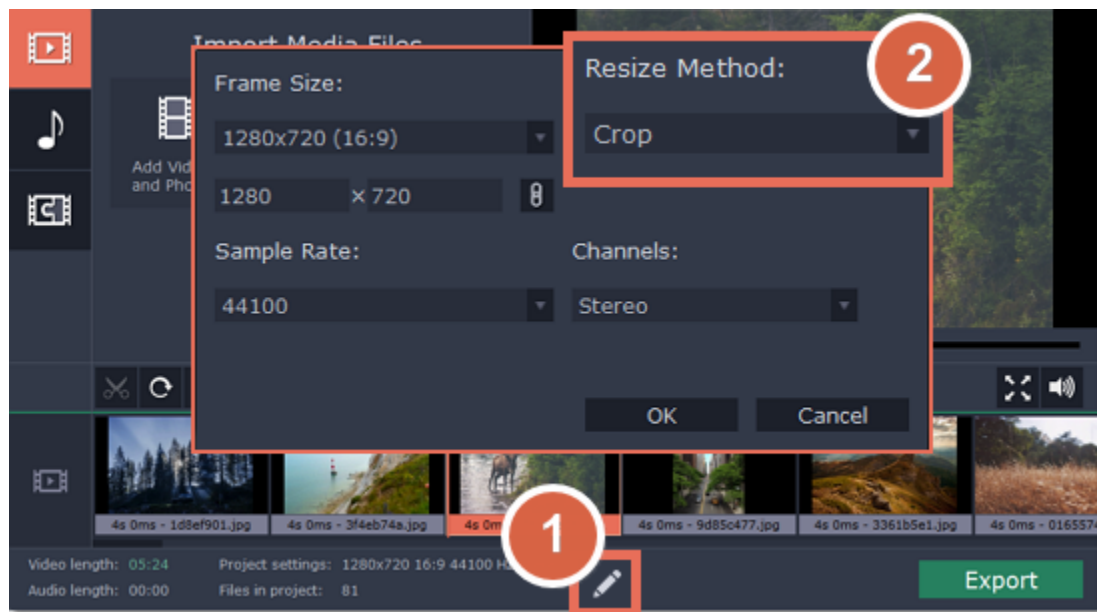
3. Click **OK** to accept the changes and preview the slideshow to see if this helped.



Solution B – Use automatic cropping

This solution will help if many of the slides have black bars around them and you don't want to change the aspect ratio. Automatic crop will resize all of the images to cover the entire screen, and trim away the edges of the videos that had black bars.

1. Click the pencil icon  at the bottom of the window next to **Project Settings**. The Project Settings window will open.
2. In the **Resize Method** box, choose the **Crop** option.
3. Click **OK** to accept the changes.

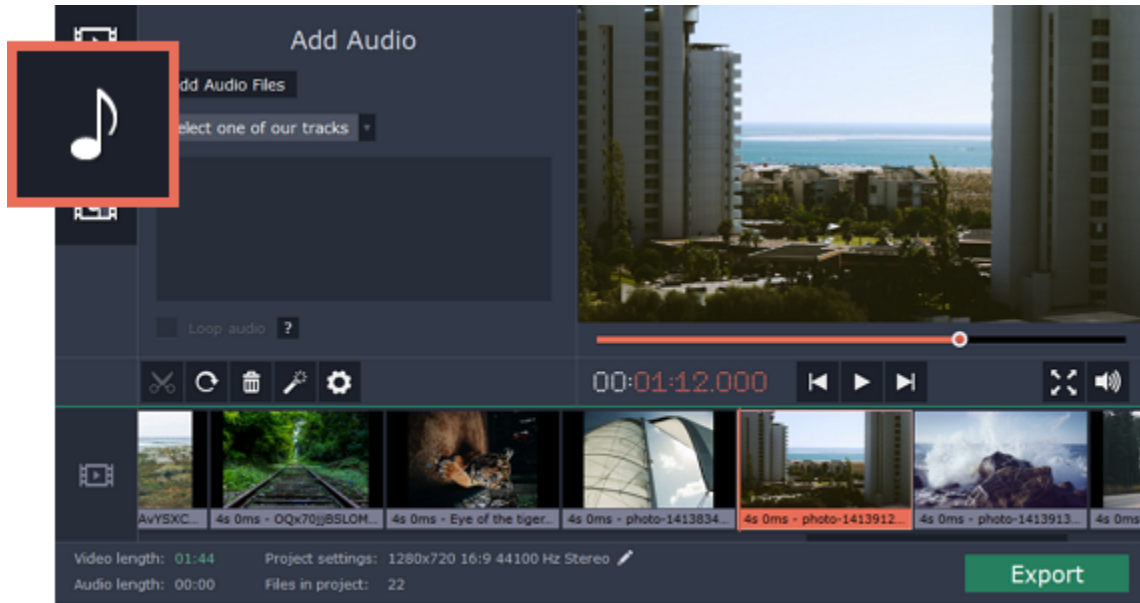


Add music

Adding music to your slideshow can set the right mood and tempo for the entire viewing experience.

Step 1: Go to the Audio tab

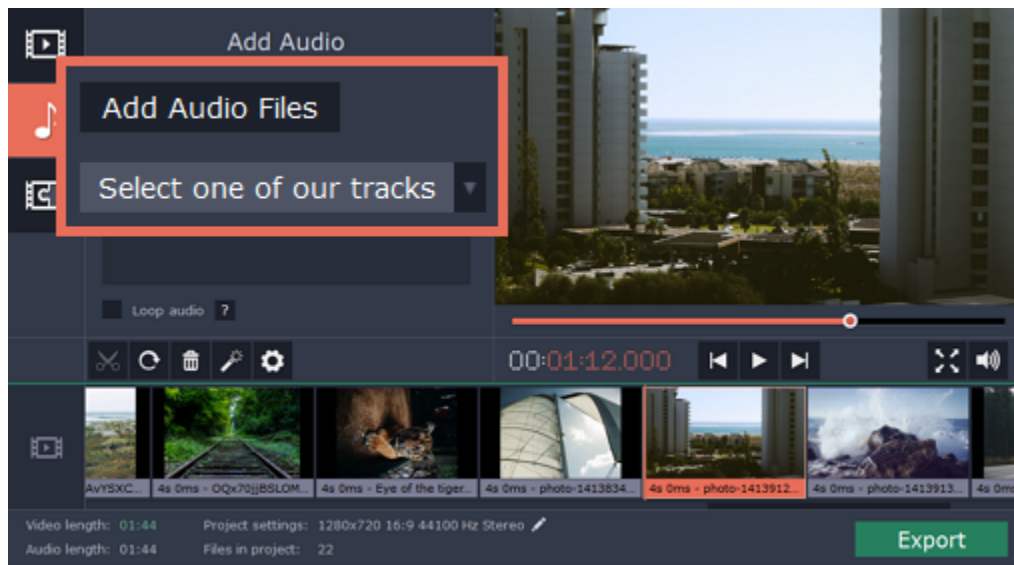
Click the note button to switch to the **Audio** tab, where you can add and manage the soundtrack of your slideshow.



Step 2: Add audio tracks

Click **Add Audio Files** and choose the music files that you want to use in the slideshow.

If you don't have suitable audio files on your computer, you can use the cool audio tracks that come with Slideshow Creator. To do that, click '**Select one of our tracks**' and select music that fits the mood.



The tracks will now be listed in the **Audio** tab. Here you can play back and manage the tracks.

Play – allows you to play back the audio file. When you click the **Play** button, a progress bar will appear beside the file. Click the **Stop** button to stop playback.

Volume – allows you to change this track's volume in the project, and how loud the track will be in the output file.

Delete – removes this track from the project.

Step 3: Trim or loop audio

Most likely, the added tracks will not be of exactly the same length as the video project.

Looping Audio

By default, if the background music is shorter than the video, there will be silence until the end of the video. To repeat the audio tracks from the beginning, select the **Loop audio** option. The audio tracks will then play in succession until the end of the video.

Trimming Audio

If the audio is longer than video, the background music is automatically cut off at the end of the video, but you can also trim each individual track from the beginning or from the end.

1. Click **Play** for the song you want to trim. The song will start playing from the beginning.



2. When the progress marker is at the moment where you want the song to begin, click the **left bracket** button to trim the song from the beginning.



3. When the progress marker is at the moment where you want the song to end, click the **right bracket** button to trim the song from the end.




Trimmed songs will be marked with a highlighted bracket icon, and the trimmed parts will be skipped when playing back the video. To cancel trimming for a song, click the **Play** button and click the brackets again to disable them.

Step 4: Mix volume levels

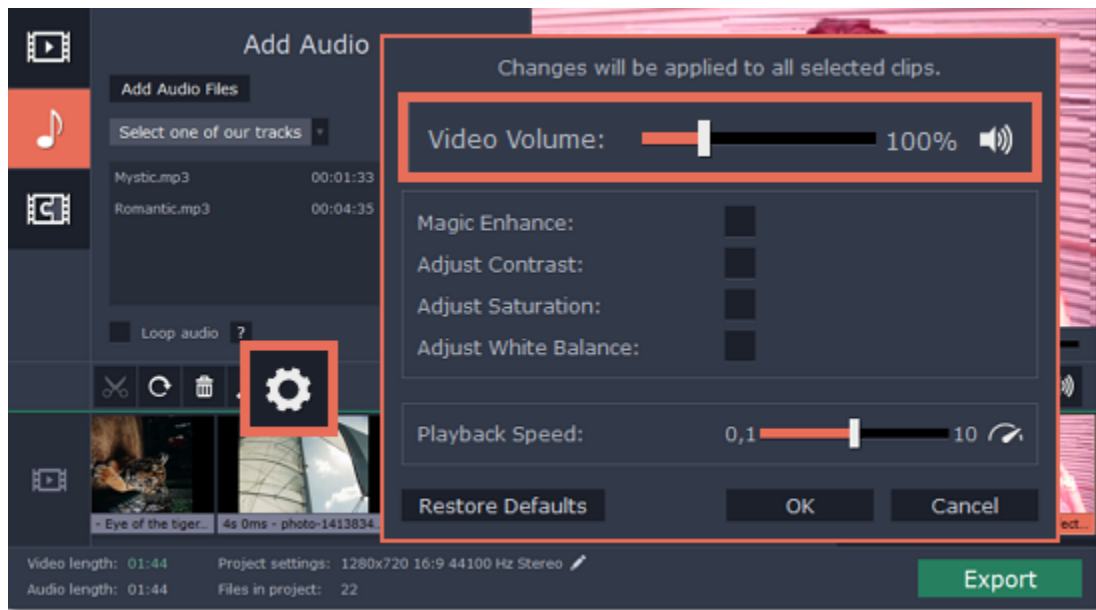
You can change both the volume of the background audio, and the volume of individual video clips.

Changing Music Volume

1. On the **Audio** tab, click the volume icon  next to the track you want to edit.
2. A volume slider will pop up: drag the slider to the necessary level and then click anywhere else to hide the slider.

Changing Video Volume

1. Select the video you want to edit.
2. Click the **Clip Properties** button to open the settings for this clip.
3. In the **Clip Properties** window, drag the **Video Volume** slider to the necessary level.
4. Click **OK** to close the window and accept the changes.



You're done! Now your video or slideshow has some great music.

[1] Stock Audio Tracks:

Stock audio tracks are copyright of their respective owners and are free for both personal and commercial use with credit attribution under the [Creative Commons license](#).

Adventure

"Coulda Shoulda Buddha" by UncleBibby

Available on the Free Music Archive (freemusicarchive.org)

Under CC BY license

Romantic

"The Wrong Way" by Jahzzar

Available on the Free Music Archive (freemusicarchive.org)

Under CC BY-SA license

Mystic

"Lunar Dunes" by Spinning Clocks

Available on the Free Music Archive (freemusicarchive.org)

Under CC BY license

Travel

"Nobody Here But Us Charles Dickens" by UncleBibby

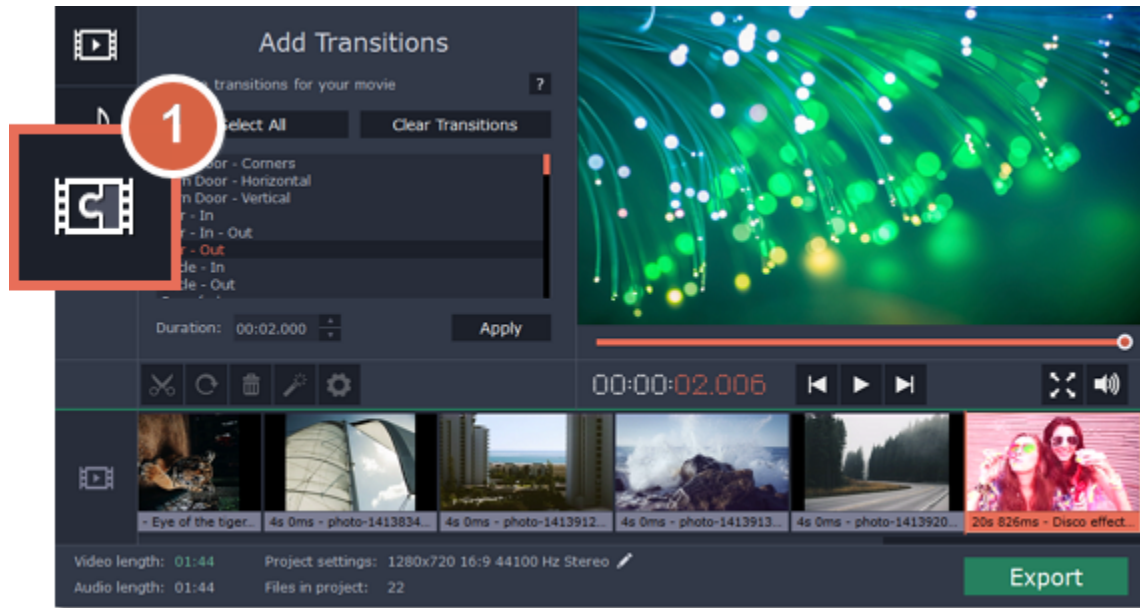
Available on the Free Music Archive (freemusicarchive.org)

Under CC BY license

Add transitions

Transitions are short animations that use geometric shapes and transparency to connect two clips in a creative way. Follow the steps below to add transitions to your video project.

Step 1: Switch to the **Transitions** tab.



Step 2: Choose transition styles

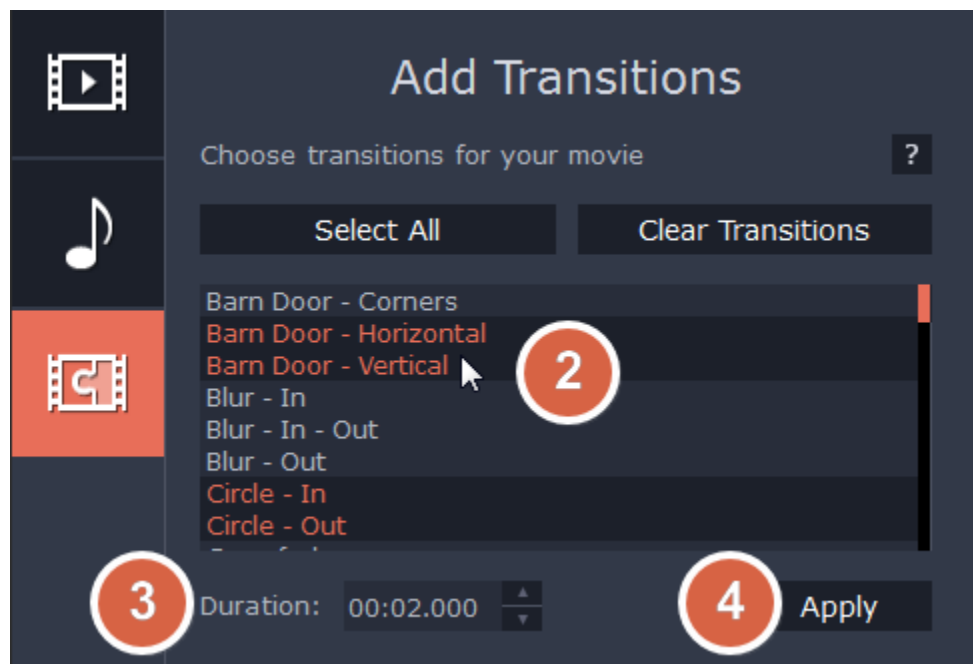
From the list of transitions, select the ones that you want to use in your slideshow. Clicking a transition name will show its preview in the player.

- To select several consecutive transitions, click the first transition and then hold down the **Shift** key as you select the last transition in the sequence.
- To select several non-consecutive transitions, hold down the **Ctrl** key and click on each transition.
- To randomize transitions, click the **Select All** button at the top.

Step 3: Set duration

In the **Duration** field, enter how long you would like each transition to last. This value will be the same for all transitions.

Step 4: Click **Apply** to accept the changes.



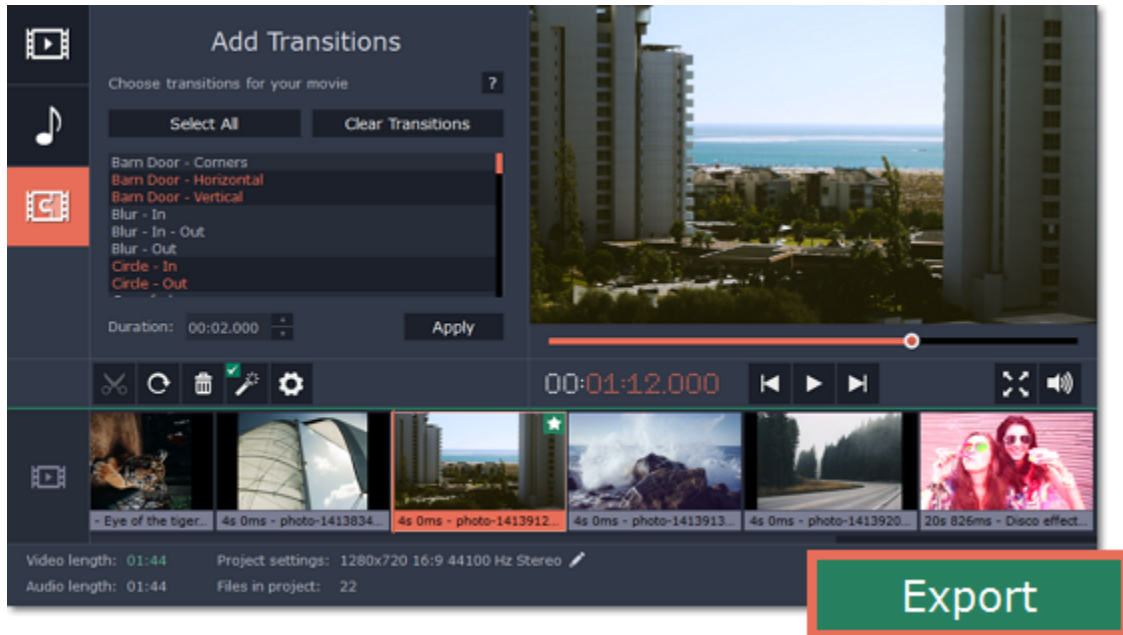
If you want to remove all transitions, click **Clear Transitions**. If you want to exclude a transition style from being used in your project, simply deselect it in the list and click **Apply**.

Save slideshow

Once you've finished with the slideshow, it's time to save it in a format that can be viewed in media players.

Step 1: Click Export

Click the **Export** button in the bottom right-hand corner of the window. The Export window will open.

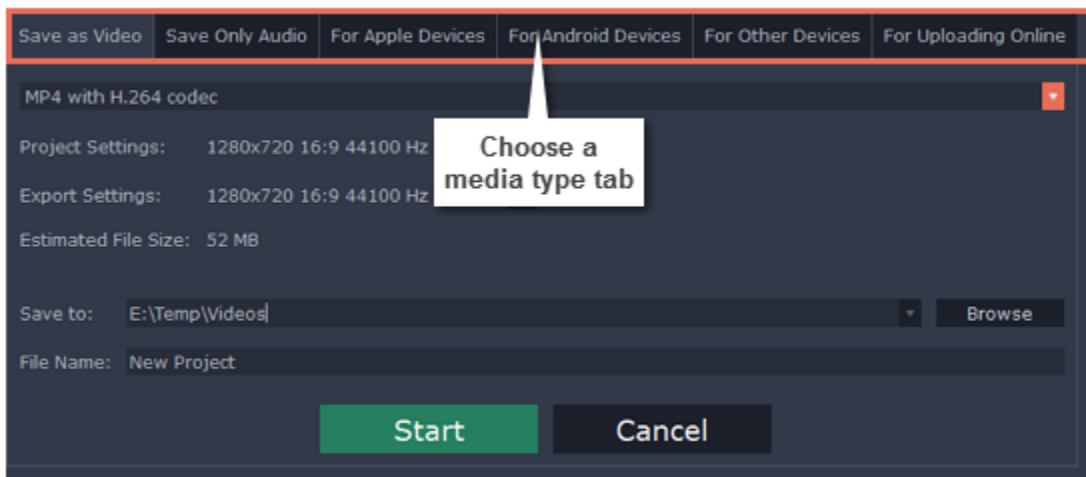


Step 2: Choose a format

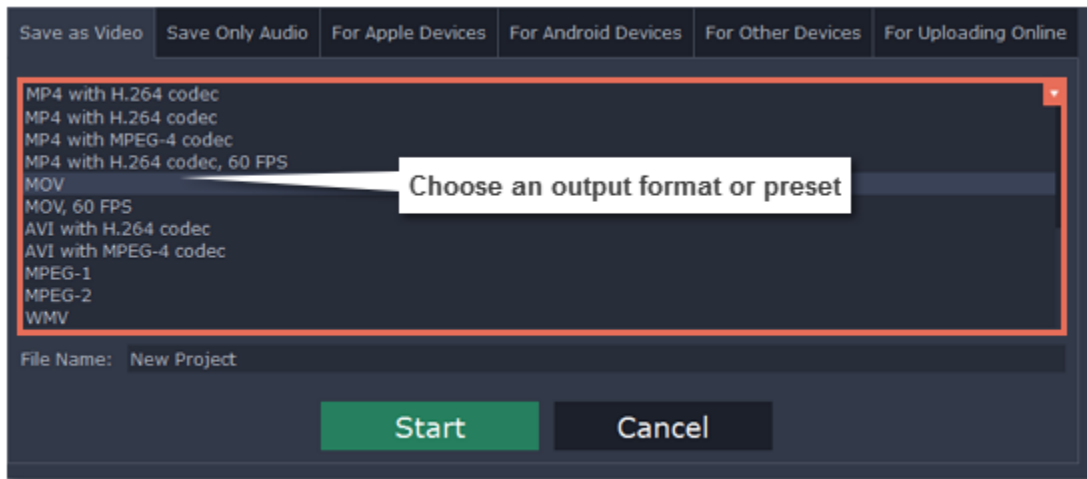
1. At the top of the Export window, choose how you want to watch the slideshow:

- **Save as Video** – for watching as a standard video file.
- **Save Only Audio** – only the audio track of the slideshow will be saved, without video.
- **For Apple Devices** – this allows you to save the slideshow in a format that's compatible with Apple devices.
- **For Android Devices** – this allows you to save the slideshow in a format that's compatible with specific Android devices.
- **For Other Devices** – here you can save the slideshow for watching on TVs, media players, and feature phones.
- **For Uploading Online** – choose this tab if you want to share your video on YouTube, Facebook, Vimeo, or your blog.

Click on the relevant tab to see its options.



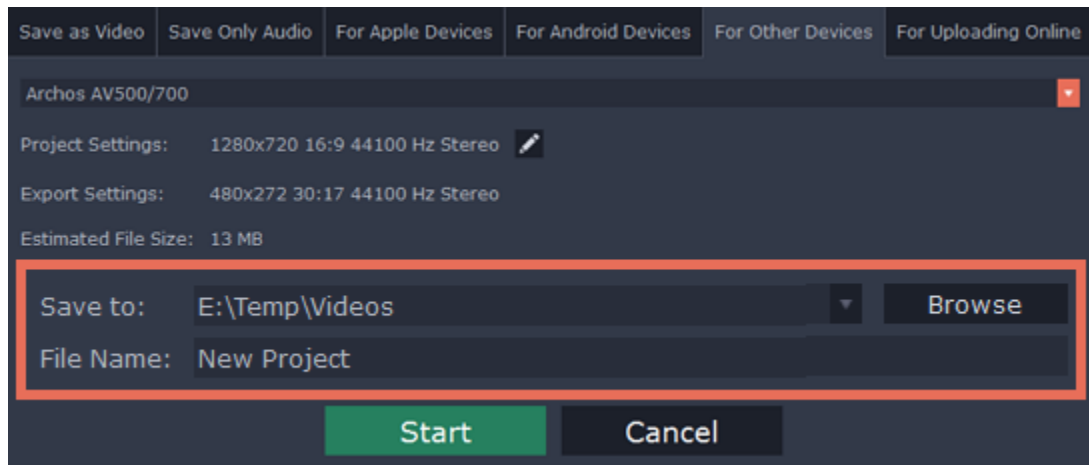
2. At the top of the tab you've selected, open the drop-down box and select the format or preset that you want to save the output slideshow with.



Step 3: Check the export options

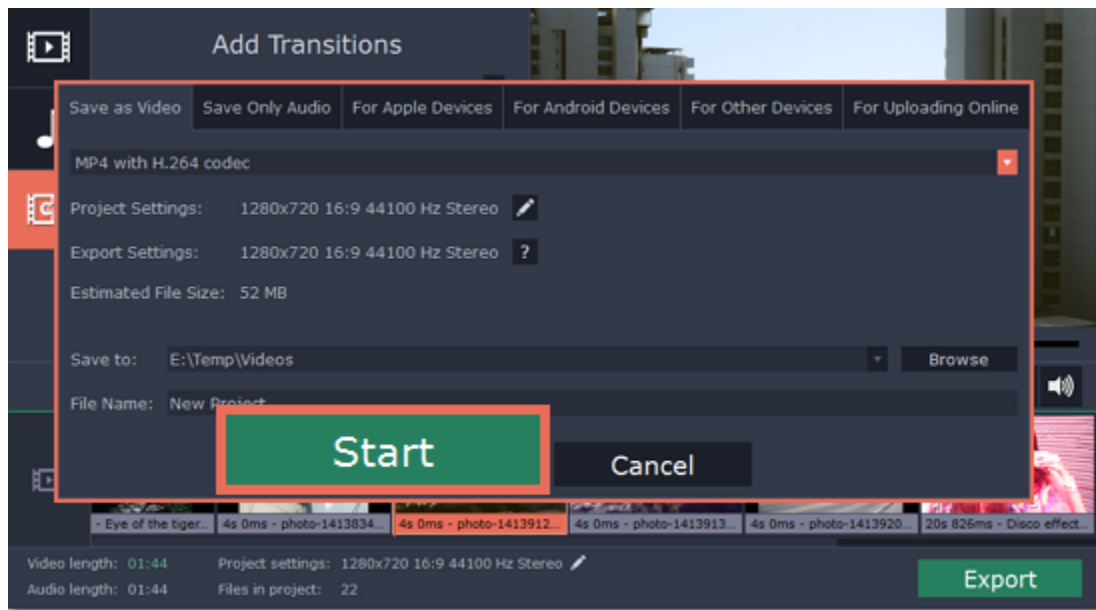
- **Project Settings** shows the resolution and aspect ratio of the project. You can change the project settings before exporting by clicking the pencil button.
- **Export Settings** shows the output resolution and aspect ratio for the selected format or preset.
- **Estimated File Size** shows approximately how much disk space the finished slideshow will occupy. If the size is too large, you can try setting a smaller resolution in Project Settings or using a different output format.

At the bottom of the window, choose the folder where you want to save your slideshow and name the output file.



Step 4: Save the slideshow!

Finally, click the **Start** button in the Export window to begin processing the slideshow. For large slideshows, this may take several minutes.



Saving your project for later

If you want to continue working on the slideshow later, you can save it as a *project file* that contains all your changes and settings. Using this project, you can later modify the slideshow or save it to a different format. To save the project:

1. Open the **File** menu.
2. Choose **Save Project**.
3. A Windows Explorer dialog box will appear. Choose a location and name for the project file and click **Save**. Don't forget to save your work once in a while.

Image size and quality

Even though image files rarely take up more disk space than videos or other media files, a large photo collection can quickly fill up your hard drive if you save all photos at the maximum size and quality. In this section, you will learn how to manage image file size.

Image file size is defined by the following properties:

- **Image size in pixels:** the larger the image, the more pixels it will be made up of, and the more data will need to be stored. The number of pixels also defines image resolution for [printing](#), and affects the maximum level of detail you can achieve for a print of a certain size.

To reduce file size, you can **resize the image**. However, this comes at a cost: the smaller copy will look just as good, but if you want to print out the image or use it as wallpaper, the smaller file will look considerably worse than its original.

Let's see how much disk space you can save by resizing images. Below are the file sizes for one image (here, you see a scaled-down preview), and the difference is amazing, resizing a large image to a viewable 800x600 size makes the file size over a hundred times smaller.



| Dimensions | File Size |
|--------------|-----------|
| 7899x5924 px | 27,6 MB |
| 800x600 px | 168 KB |

If you want to upload previews of your images to the web, or share photos in web albums, resizing the photos will most likely be a good idea: the upload times will be faster, and if you have a storage limit, it won't be filled up as fast as if you uploaded the images at their original size.

[Batch resizing](#)

Hint:

Don't scale up small, low-quality images.

An image with small dimensions does not have enough data in the file to allow any program to fully restructure the quality of a larger size image. If you size them up, you will only be wasting disk space without any improvement in quality.

- **Image complexity:** image complexity plays a large role in file size. Due to image compression specifics, images with different content but identical size and format will differ in file size because of the details that will need to be preserved. For example, if you save a large image of a purely blue background, some compression methods will only need to store which color fills the whole image, while for a picture of a flower, all the small details will be stored to avoid quality loss.

Note the images below. They are of identical dimensions and are both saved in JPEG format. One image is a photo of a complex and colorful flower, while the other is a plain blue background. The second image's file size, having to encode less data, is 48 times smaller than the first! And while you can't simplify your photos to a single color, keep in mind that some images will naturally have larger file size than others.

425x282 pixels



144 KB



2,98 KB

• **Format and compression method:** A compression method can be seen as a shorthand writing system for image editing software, where it can write all the data of your image into less space, and then decipher the shorthand to recreate the image on your screen when you open the file. Most image compression methods do not store all of the image's data pixel by pixel, since it would take significantly more disk space. Instead, the image compression algorithm finds a way to pack this information by finding identical parts and only recording those same parts once, or by throwing away some data that it finds less important. Different formats have different compression methods, and choosing the best format largely depends on the type and purpose of the images.

Lossless formats: some formats can store the image without losing any data, meaning that the quality of the image will not decrease when you save it. These formats can store the image either at its full size, or use a lossless compression method, that will pack the image into a smaller file, yet retain the original quality. No matter the compression level, these files are rather large, but offer the benefit of higher quality and sharper images, which is especially important for text images and logos.

Common lossless formats: PNG, TIFF, BMP

'Lossy' formats: other formats allow you to save the images into smaller files, but they compress images at the expense of some quality. For large photos, the trade-off is usually justified, as the human eye will probably not notice the difference at low compression levels. However, when manually adjusting quality of 'lossy' formats, such as JPEG, it is important not to set the quality too low to enjoy the image.

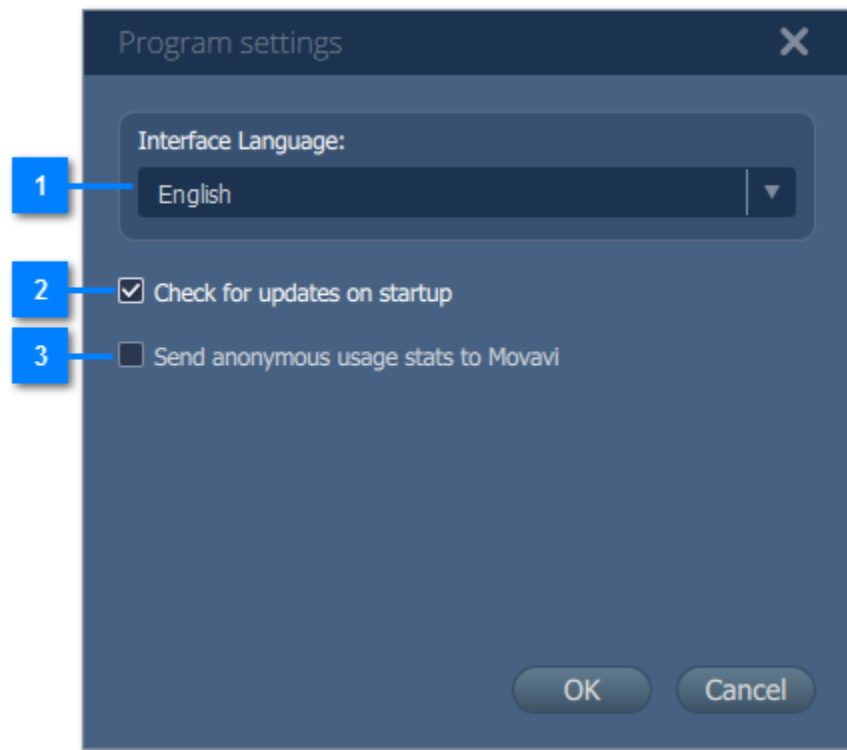
The most common 'lossy' format: JPEG

When you change an image's format, note that saving it to a lossless format will not improve its quality, but only preserve the existing data. Likewise, if you change an image from a lossless format to a 'lossy' one, some data will inevitably be lost to compression.

[Saving files in a different format](#)

[Batch convert images](#)

Settings



Click the cogwheel button in the upper right-hand corner of Movavi Photo Studio Launcher to open the settings. These settings will apply to all of Movavi Photo Studio modules.

1

Interface language

Select your preferred language and click **OK**. The modules will also launch in the selected language.

2

Check for updates on startup

Movavi Photo Studio will search for newer versions of installed modules. Installing the updates is quick and easy: just click the update button and Movavi Photo Studio will automatically download and install the update for you.

3

Send anonymous usage stats to Movavi

Select this option if you want to participate in the Movavi Improvement Program. We collect basic information about the program, such as which features you use most or any errors you may have encountered. We do not collect any personally identifiable data, and only use the statistics to improve Movavi Photo Studio.

[Movavi Improvement Program](#)

Help and support

If you have any questions or concerns regarding Movavi software, you are welcome to contact our support team.

Write to us at support@movavi.com...

or click the **Live Chat** button on the right to ask a support specialist via live chat.

Please describe your problem in as much detail as possible; any screenshots or log files will allow us to help you faster. Our support team specialists may ask you for additional information that is required to solve your problem: these may include your license key, log files, and files you were working with, but never personal information. We value your privacy!

Have you checked the [FAQ section](#)?
Your question may have already been answered!

Frequently asked questions:

[How to activate Movavi Photo Studio?](#)

[How to buy the software?](#)

[How to update the graphics card drivers?](#)

System requirements

Both the Movavi Photo Studio launcher and all included applications require a stable Internet connection and administrator permissions for downloading and installing.

| Minimum system requirements | | Recommended configuration |
|-----------------------------|---|---|
| Movavi Photo Editor | | |
| Operating system | Windows XP/Vista/7/8 with latest service packs and patches | |
| Processor | Intel, AMD or compatible processor, 1 GHz | 2.2 GHz |
| Display resolution | 1024x768, 32-bit color | 1280x1024 or higher |
| RAM | Windows XP, Vista – 512 MB Windows 7, 8 – 1 GB | Windows XP, Vista – 2 GB Windows 7, 8 – 4 GB |
| Available disk space | 150 MB | |
| Movavi Photo Batch | | |
| Operating system | Windows XP/Vista/7/8 with latest service packs and patches | |
| Processor | Intel, AMD or compatible processor, 1 GHz | 2.2 GHz |
| Display resolution | 1024x768, 32-bit color | 1280x1024 or higher |
| RAM | Windows XP, Vista – 512 MB Windows 7, 8 – 1 GB | Windows XP, Vista – 2 GB Windows 7, 8 – 4 GB |
| Available disk space | 150 MB | |
| Movavi Slideshow Creator | | |
| Operating system | Windows XP/Vista/7/8 with latest service packs and patches | |
| Processor | Dual-core Intel, AMD or compatible processor, 1 GHz | Quad-core processor, 2.2 GHz and above |
| Graphics | NVIDIA® GeForce™ series 6 or higher AMD Radeon™ R600 or higher graphics card with up-to-date drivers | |
| Resolution | 1024x768, 32-bit color | 1280x1024 or higher |
| RAM | Windows XP, Vista – 512 MB Windows 7, 8 – 1 GB | Windows XP, Vista – 1 GB Windows 7, 8 – 2 GB |
| Available disk space | 400 MB for installation 500 MB for ongoing operations | 2 GB |
| Additional features | Sound card for audio playback Latest version of QuickTime Player for Windows for MOV processing | |

Supported formats

Movavi Photo Editor

| Format | Input | Output |
|----------------|-------|--------|
| BMP | ✓ | ✓ |
| DPX | ✓ | ✓ |
| EXR | ✓ | |
| GIF* | ✓ | |
| JPEG | ✓ | ✓ |
| JPEG 2000 | ✓ | |
| JPEG-LS | ✓ | |
| PAM | ✓ | |
| PBM | ✓ | ✓ |
| PCX | ✓ | ✓ |
| PGM | ✓ | ✓ |
| PNG | ✓ | ✓ |
| PPM | ✓ | ✓ |
| SGI | ✓ | |
| Sun Rasterfile | ✓ | |
| TARGA | ✓ | ✓ |
| TIFF | ✓ | ✓ |
| WebP | ✓ | |
| XBM | ✓ | ✓ |
| XFace | ✓ | |
| XWD | ✓ | |

* Only non-animated GIFs

Movavi Photo Batch

| Format | Input | Output** | Convert to |
|-----------|-------|----------|------------|
| BMP | ✓ | ✓ | ✓ |
| DPX | ✓ | ✓ | |
| EXR | ✓ | | |
| GIF* | ✓ | | |
| JPEG | ✓ | ✓ | ✓ |
| JPEG 2000 | ✓ | | |
| JPEG-LS | ✓ | | |
| PAM | ✓ | | |
| PBM | ✓ | ✓ | |

| | | | |
|----------------|---|---|---|
| PCX | ✓ | ✓ | |
| PGM | ✓ | ✓ | |
| PNG | ✓ | ✓ | ✓ |
| PPM | ✓ | ✓ | |
| SGI | ✓ | | |
| Sun Rasterfile | ✓ | | |
| TARGA | ✓ | ✓ | |
| TIFF | ✓ | ✓ | ✓ |
| WebP | ✓ | | |
| XBM | ✓ | ✓ | |
| XFace | ✓ | | |
| XWD | ✓ | | |

* Only non-animated GIFs

** If the original format is not supported as an output format, the files will be saved as JPEG.

Slideshow Creator

| Video Formats | Supported Codecs | |
|--|------------------|--|
| 3GPP (.3gp), 3GPP2 (.3g2) | Read / Write | H.263 |
| | Read Only | H.264, MPEG-4 |
| Advanced Streaming Format (.asf) | Read Only | MPEG-4, VC-1, WMV V7 |
| Audio Video Interleave (.avi) | Read / Write | H.264, MPEG-4 |
| | Read Only | H.263, MJPEG, DivX, Xvid, DV, Cinepack, Fraps, TechSmith, Uncompressed |
| DivX Video (.divx) | Read Only | DivX |
| Flash (.flv) | Read / Write | H.264 |
| | Read Only | FLV1, H.263, Flash Screen Video |
| Flash (.swf) | Read / Write | FLV1 |
| | Read Only | MJPEG |
| HD-видео (.m2ts, .mkv, .mov, .mp4, .mpg, .wmv) | Read / Write | MPEG-2, MPEG-4, H.264, WMV V8 |
| HD-видео (.m2t, .mts, .ts, .wmv) | Read Only | MPEG-2, MPEG-4, H.264, AVCHD, WMV 9, WMV 9 Advanced profile |
| Matroska (.mkv) | Read / Write | H.264 |
| | Read Only | MPEG-4, MJPEG, Theora, DV, Uncompressed |
| MPEG Transport Stream (.m2ts) | Read / Write | H.264 |
| MPEG Transport Stream (.ts, .mts, .m2t) | Read Only | MPEG-2, H.264 |
| MPEG (.mpg) | Read / Write | MPEG-1, MPEG-2 |
| MPEG (.mpeg, .mpe, .m1v, .mod, .tod) | Read Only | MPEG-1, MPEG-2, H.264 |
| MPEG-4 (.mp4) | Read / Write | MPEG-4, H.264 |
| | Read Only | H.263, MJPEG, ProRes |

| MPEG-4 (.m4v) | Read Only | MPEG-4, H.264, H.263, MJPEG, ProRes |
|--|------------------|---|
| MXF – Material eXchange Format (.mxf) | Read Only | MPEG-2, DV |
| OGV – Ogg Video (.ogv) | Read / Write | Theora |
| | Read Only | MPEG-4 |
| QuickTime (.mov) | Read / Write | H.264 |
| | Read Only | MPEG-4, AIC, MJPEG, ProRes, Sorenson 1/3, PNG |
| QuickTime (.qt) | Read Only | H.264, MPEG-4, AIC, MJPEG, ProRes, Sorenson 1/3 |
| RM – RealMedia (.rm, .rmvb) | Read Only | Real Video 2/3/4, Cooker |
| WebM (.webm) | Read / Write | VP8 |
| | Read Only | VP7, VP9 |
| WMV – Windows Media Video (.wmv) | Read / Write | WMV V8 |
| | Read Only | WMV V7, WMV 9, WMV 9 Screen, WMV 9 Advanced profile, MPEG-4, WMV 9.1 Image V2 |
| WTV – Windows Recorded TV Show (.wtv) | Read Only | H.264, MPEG-2 |
| Audio Formats | Supported Codecs | |
| AAC – Advanced Audio Coding (.aac) | Read / Write | AAC |
| AMR – Adaptive Multi-Rate audio codec (.amr, .3ga) | Read Only | AMR |
| AIFF – Audio Interchange File Format (.aif, .aiff) | Read Only | Uncompressed |
| APE – Monkey's Audio (.ape) | Read Only | Monkey's Audio |
| Au (.au, .snd) | Read Only | PCM |
| FLAC – Free Lossless Audio Codec (.flac) | Read / Write | FLAC |
| MP3 – MPEG-1/2 Audio Layer III (.mp3) | Read / Write | MP3 |
| MPEG-4 (.m4a, .m4b) | Read / Write | AAC |
| MPEG-4 (.m4a, .m4b) | Read Only | AAC, PCM, ALAC |
| OGG – Ogg Audio (.ogg) | Read / Write | Vorbis |
| WAV – Waveform Audio File Format (.wav) | Read / Write | PCM |
| | Read Only | AAC, MP3 |
| WMA – Windows Media Audio (.wma) | Read / Write | WMA 9 |
| | Read Only | WMA Pro, WMA Voice |
| Image Formats | Supported Codecs | |
| BMP (.bmp) | Read Only | BMP |
| DPX (.dpx) | Read Only | DPX |
| GIF (.gif) | Read Only | GIF |
| JPEG (.jpg, .jpeg, .jp2, .jls) | Read Only | MJPEG, JPEG2000, JPEGLS |
| Netpbm formats (.pgm, .pbm, .ppm, .pam) | Read Only | PGM, PBM, PPM, PAM, PGMYUV |
| PCX (.pcx) | Read Only | PCX |
| PNG (.png) | Read Only | PNG |
| PTX (.ptx) | Read Only | PTX |
| SGI (.sgi) | Read Only | SGI |

| | | |
|--------------|-----------|-------|
| TARGA (.tga) | Read Only | TARGA |
| XBM (.xbm) | Read Only | XBM |
| XWD (.xwd) | Read Only | XWD |

Updating graphics card drivers

If you encounter an error message asking you to update your graphics drivers, you will need to download a new driver from your graphics card manufacturer's website and install it on your system. Some graphics card drivers also have a useful utility that notifies you when a driver update is available and updates the driver automatically. Keeping your graphics card drivers up-to-date will ensure stable performance of applications and games on your computer.

Step 1: Find your graphics card manufacturer

1. Right-click your desktop and choose Screen Resolution
2. In the Screen Resolution settings window, click Advanced settings.
3. This will open your graphics card properties. At the top of the window, your graphics card model will be listed under the Adapter Type section. Note the full name of the graphics card somewhere for later.

Step 2: Download the new version

Now that you've learned your graphics card manufacturer and model, go to the manufacturer's website and find driver downloads. There, look for the model or series that you've found earlier and download the driver installation file. Some manufacturers may also offer a utility that will automatically find the necessary driver.

[NVIDIA download center](#)

[AMD download center](#)

Warning:

Only download drivers from the official manufacturer's website. Third-party websites offering driver downloads may contain malware.

Step 3: Install driver

Once the file is completely downloaded, run the installation file and follow the onscreen instructions to install the driver on your system. Your display may blink several times in the process. After the installation has finished, it is advised that you restart the computer.

Updating NVIDIA® Driver

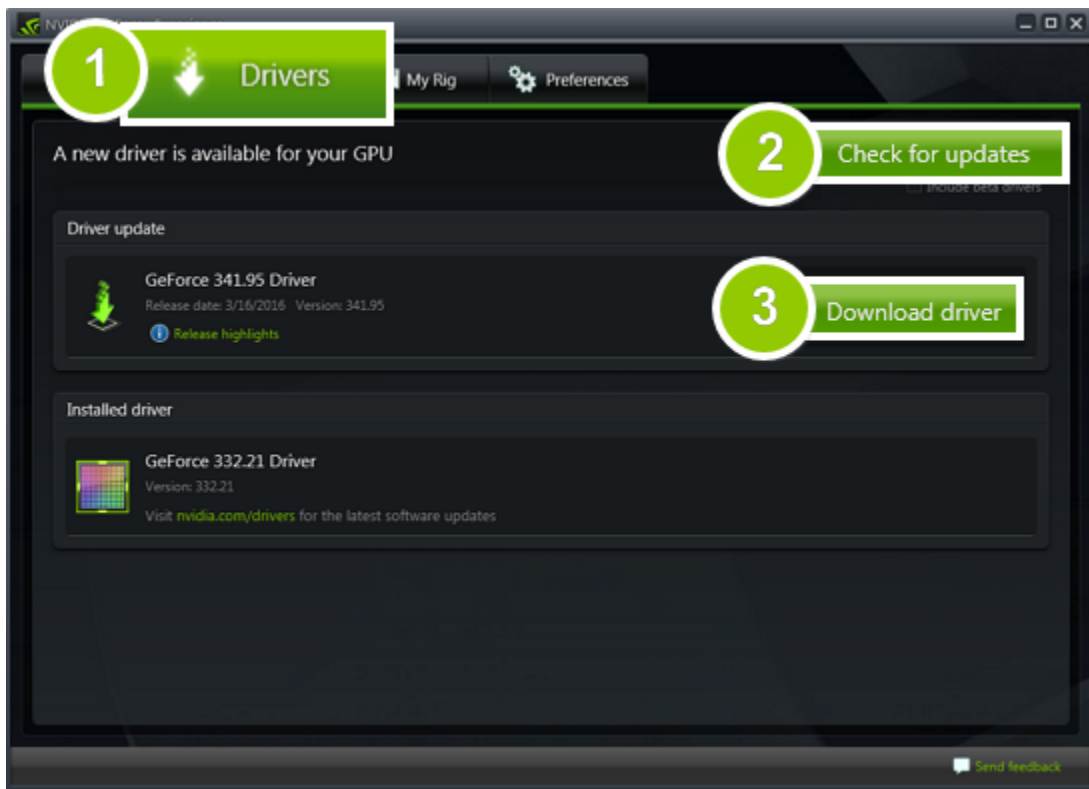
Modern NVIDIA graphics cards come with a special application called **NVIDIA GeForce™ Experience** that monitors driver updates and allows you to optimize your computer's graphics performance.

1. Open the **NVIDIA GeForce Experience** application. It should already be installed on your system. If you cannot find the application, please try the method above.

[NVIDIA download center](#)

2. In the **Drivers** section, click the **Check for updates** button to find the latest drivers.

3. When the application has found a newer driver, click the **Download driver** button. From here, the software will automatically download and install the necessary driver for your system.



Updating AMD® or ATI® Driver

1. If you have an AMD or ATI graphics card, go to the Driver Download Center on AMD's official website.
[AMD Driver Download Center](#)
2. Download the auto detect utility and run it when the download has finished.
[Auto Detect Utility](#)
3. The utility will then automatically find your graphics card and help you download and install the right driver for your system.
If the utility fails to find a driver for you, you can manually select your graphics card model and operating system on the Driver Downloads page and download the driver.
4. After the driver has downloaded, run the installation file and follow the on-screen instructions to install it.
5. After the driver has been installed, it is recommended that you restart your computer.

If none of the above steps have helped, feel free to contact our support team via [e-mail](#) or live chat.

If possible, please include the name of your graphics card model (see Step 1), as well as screenshots of any error messages you have encountered. This will help our support team specialists solve your problem quicker.