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Lightroom 4 tutorial pdf

Related course: Effortless Editing with Adobe Lightroom Lightroom is an industry standard for image editing. This clean and easy-to-use interface means you can start editing today. Love it or hate a subscription, Lightroom is here to stay. Why spend hours editing when you can do it all in no time. What is post-processing software? Manual focal lenses have become automatic. Now, we even have motion-tracking focus. More and more images are digitally captured, manipulated and shared. Millions of people around the world have access to our images. All this at the touch of a button. Photography, the analogue world had access only to cinema. This is necessary for development and processing in a dark room. Then increase the negatives on the photo-sensitive paper. There are very simple and basic ways to edit and manipulate areas. Either because of excessive or insufficient impact or a correction of perspective. These techniques, called dodging and burning allowed the printer to have limited control over the images. All of this has given way to the digital age, when digital cameras required a new workflow. Image manipulation software, such as Adobe Lightroom, has taken over from the time-consuming practices of earlier times. These programs allowed photographers and printers to work quickly, they have become more effective. The images were instantaneous. In short, the camera came to the DSLRs. Gelatin covered in silver on a plastic basis turned into microchip sensors. And the dark rooms turned into Adobe Lightroom. Our complete guide guides you through all the tutorials and tips you need. You'll soon be editing photos in Adobe Lightroom. What is Adobe Photoshop Lightroom? Adobe Photoshop Lightroom is a photo editing and file management software. It's a great tool for organizing images into folders and collections. This makes for easy accessibility. This follows a no-frills layout. Substance over style. You will find it allows you to do 90% of your photographic manipulations quickly and efficiently. Using a convenient copy/paste method, you can change the look of hundreds of images at the touch of a button. In addition, free Lightroom presets are available for specific ways to stylize your photos. All of these benefits make Adobe Lightroom a popular choice for image editing. How to buy Lightroom? The 2020 guide and options The big thing about Adobe is that it offers 30-day trials. Free. Everything is available on their website. There are several plans to choose from for photographers. Or choose Lightroom CC (classic) and 1TB cloud storage for \$9.99. Or for the same you can trade in 1TB for 20GB. This gives you both current versions of Lightroom and Photoshop too. 6 important things you should know about Lightroom 6 are there are still a few users out there clinging to the latest standalone Lightroom software. After Lightroom 6, Adobe decided to make the program open only through if you manage to hold onto Lightroom 6, you don't have to pay a monthly fee. But, it limits what you can do with it. There may be big, unanswered questions lingering around in your head. For example, does she recognize my new camera? For the six most important things you should know about Lightroom 6, look no further. Why we recommend Lightroom Vs Alternatives Capture One vs Adobe Lightroom The Biggest Competitor Lightroom will be grabbing one. Photoshop will not qualify as a competition. These are different programs made by the same company. Capture One comes from a company that specializes in mid-format photography. Their first release was released around the same time as Lightroom (2006). Both programs contain and organize RAW files. They also allow you to manipulate images in non-destructive manners. Differences begin to appear in the fine tuning of images. One area is color management. Lightroom uses HSL sliders (Hue, Saturation, Luminance), but Capture One goes on. This allows color adjustments in shade, glare, and medium tones. But Capture One is often described as fastidious. some consider it too powerful to be used as quickly as the Lightroom alternative. This article goes through all the pros and cons of both software packages. It will show you why Lightroom is a more popular and cheaper option. Best Alternatives to Lightroom - RawTherapee () Capture one (en) DCSO Darktable there are many alternatives to Lightroom as a RAW converter. There are other programs that can be used as image management or manipulation software. Here we will compare only programs that cover all these things. Just like Lytium. You may have your reasons why you don't use Lightroom. Either a monthly subscription process or simply used for a variety of programs. In any case, there are alternatives. For many years, Apple's aperture has been Lightroom's biggest competitor. Apple has since decided to gut the program and create photos. So what do other companies do? There are three, strong alternatives recommended by many different photographers. This is On1 Photo RAW, Luminar and Darktable. As this article suggests in great depth, On1 Photo RAW is a complete solution to the photo workflow. The Luminar is great for processing, but allows you to work with only one image at a time. Darktable is a free open source program. It's a great tool for people with lots of photos, but without a budget. Lightroom Vs. Photoshop: What's the difference? Adobe Photoshop Lightroom and Adobe Photoshop, as you can tell, are from the same company. Lightroom even Adobe Photoshop in its name, which should you have a few things. Photoshop has been the locomotive of all digital editing since the 1990s. He can do anything. Because of this versatility, it has a steep learning curve. It is an understatement to say that this can be misleading. Not only that, Cover all the needs of photography. But all the graphs are related. All kinds of visually creative work go very well with the Photoshop interface. Lightroom, in this case, is a younger brother. It supports professional processing tools, but adds speed to the mix. With LR, you can work quickly by applying changes to hundreds, if not thousands of images. Lightroom meets the needs of most photographers, and 9 out of 10 use it for all editing needs. 10% who need more will use both, by editing into LR and then exporting ps. Photoshop is best seen as an image editing device. Lightroom as an image management tool. Organizing Lightroom's File Management System in Lightroom is very easy to use. After a while, playing in the library module, you will feel at home. Importing, moving and arranging photos using a no-frills platform is a blessing. The folders and images are imported at the touch of a button and then moved by drag. Collections and keywords are very convenient. Each image can have many words connecting them all. They can be found later along with other images in the same vein. Similarly, with collections, you can create folders with specific tasks. They can isolate all your best images from these trips to Iceland, found in many folders. Everything is stored in the so-called Catalog. All information about editing is stored here. Lightroom creates the default catalog, which it downloads every time. This allows you to create others to separate different workflows or substantive issues. How to organize photos in Lightroom As you organize all your photos, in general, can mean how you should organize them in Lightroom. What works for me is to divide all my images into folders on an external hard drive. All of these folders are dated and named in this order. An example is 2018.02.02 -Budapest Parliament. I find it works best for me as they are all ok dates and tells me it is in every folder. These folders are imported into Lightroom, which saves the titles I use. It allows me to track where everything is. All of them are located to the left of the library module and can be found very quickly. It also helps when it comes to adding keywords, which is a great tool for arranging and searching images of the same theme. Doing all this keeps all my images uncluttered so I don't waste time. You can effectively throw all the images into one folder on your desktop, and import it. From there, you can add folders, colors, tags, flags, and ratings to separate them. The library and organization are very versatile, and the system to you and how you want this article to go through something that you could benefit from and gives you tips along the way. How to organize photos in Lightroom: Top 10 Tips for Organizing Images in Lightroom should be the first thing you do. Clear Clear A short catalog will help reduce editing time. Taking time at the beginning, you can set up some great practices. These will be patterns of how you deal with images and sessions. The last thing you want to do is spend long periods of time searching for that one image of your family. Start by adding keywords to each image that comes through Lightroom. So, a quick search for keywords will let you know where the image is. How to import photos into Lightroom: A beginner's guide to importing photos into Lightroom can be done in several different ways. First, there is File -Imported Photos and Videos (or Ctrl and Shift - I). Both of them take you to an import page where you add photos to your catalog. If you have a Show Import Dialogue, when a memory card is inserted in your preferences, then the import screen will open automatically. Another lesser-known way would be to create a folder on your hard drive that you'll only use with Lightroom. This can be configured to automatically import images that are posted there. This option can be found on the Auto Import file. This can be convenient for your workflow. But this folder will not automatically import folders - only images. For a few other ways to import images, take a look at this extensive article about what you should think about when importing. Understand the Lightroom Catalog system in 10 minutes If you are familiar with computer software, Lightroom catalog database S'Lite. If not, it is not a prerequisite. Part of the database is important because it basically says that your image library is like a physical library. Each book belongs to a map with information about it. This is how Lightroom is the organizational system works. Everything is available through tags, keywords and even file or folder names. The catalog is a collection of all these maps or photos. Other directories can be created, but they should be limited to multiple situations. The speed of the program should not depend on the hundreds of directories that you have in one place. Having all the images in one place is a greater advantage than having many directories with multiple files on each. You might want to separate working photos from your family photos. Thus, having two different workflows would make sense. More tips and information can be seen in this article and will help you understand the directory in a few minutes. How to create collections in Lightroom: Step-by-step Guide Collections in Lightroom are a great way to keep your photos neat and neat. I personally use them when developing a project I've been working on. After editing the photos up to the idea number (15 for live concerts), I mark them with the help of Shortcut. When I create a collection, I go to a smart version. This allows me to tell the collection to look into this folder and only show those with a green label. This simplifies the simplifications delete the ones I no longer want, and find those images again if necessary. This article is a step-by-step guide to creating collections and how your workflow can benefit from them. Lightroom Workflow How to master your Lightroom workflow for better photo editing Lightroom latest versions have 7 different modules: Library - You can organize all your images, add keywords and metadata. You can also organize folders and create collections, quickly add presets, or share with your favorite sites. Development - Here you will do most of your processing. You have two viewing modes, loupe or before/after. Map - If your photos already have GPS information, they will add themselves to applicable areas on the map. Otherwise, you can drag and throw them wherever you want. Book - This allows you to design and create a mock-up of the book. Drag and drop images from your collections and folders running from cover to cover. Slide Show - You can turn your images into presentations. There are layout ideas, linings and backgrounds that can be applied. In addition, music can be added along with the withering and timing of your project. Print - It gives you presets and layouts for quick photo management for printing. Permission, media types, and color management can be identified here and sent to the printing house without leaving the chair. Web - Here you can work on images exclusively for the Internet. There are templates and presets that you can use to create an attractive gallery for your site. The information can then be exported and dumped to the server to create the same style on your website. Lightroom is great in many things. However, you don't need all the tools all the time. You can hide the panels so you can see the image better and focus more on it. This stops an image overshadowed by tools and panels that you won't soon. Another great tip is changing overlays when cropping images. A standard pruning tool shows you a grid that is convenient for straight lines such as horizons. But by clicking 'O' on the keyboard while in the pruning area, you can cycle through the presets. Instead, you can use a gold ratio or diagonal lines. 15 Lightroom keyboard shortcuts seriously speed up your workflow Everyone has their own workflow method. After photographing a live group, I already know what my final result should look like. I want to finish with more or less 15 images, from a mix of close-up and wide shots. In order to get this, I could take 200 group photos. This allows me to capture them in all kinds of ways. Lenses and positions give me different points When I edit, I usually go through images, quickly choosing the ones I like. I'll then look at them closer after the initial pre-edit. The only way to do this quickly and efficiently is by using Shortcuts. Starting with the first image, using the magnifying glass view mode, I press the right arrow key to get through all the images from this shot. As I go along, I use numbers '8' and '9' to give me green and yellow tags. If I see an image that I really like or want to use, I click '5' to give the image a 5-star rating. When I get to the end, I can filter out everything I've applied. Green to keep, yellow for good, but not the best and 5-stars for exceptional. After this pre-editing, I can further edit the images that I chose. It could be 30 out of the original 200. I do this by taking away the applied tag. When I have images that I want, I can easily delete images without tags. This will be on about 170 images, resulting in 30 images to save. This article gives you all possible keyboard shortcuts you could use in your day-to-day editing. Lightroom Tips and Techniques in Design Module Development Module is the area where much of the editing magic takes place. Here you can make small local adjustments, such as increasing exposure or adjusting the light balance. Or you can make something a little heavier. For example, applying masks to increase the hue of a particular area. Here we will prepare a lot of adjustments that we can make to this module. How Batch Edit in Lightroom Lightroom is great for many different reasons. It has a great organization structure, allows keywords and gives you changes to edit images. Personally, I use Lightroom for the image package. This means editing multiple images at the same time. It's very handy for editing as it saves a lot of time. It is best used for sessions where the conditions of installation, white balance or light are similar. For all the help you'll ever need when handling packages, read our article here. The ultimate guide to developing the Adobe Lightroom module - Color temperature and presence When it comes to photographing an object, the camera sensor processes everything in the RGB: Red, green and blue. This applies to the light reflected from your subject. These colors have a dramatic effect on the final color of your image. You may find that you will have to adjust the white balance. After all, you want to make the white areas a little more natural and real. Also, you may find that the color of the photographed objects is either too colorful or not colorful enough. These things can be changed using the HSL slider or Vibrance part editing panel. As this article suggests, there are many ways to change color. Or assist in normalizing the scene or adding a punch to the images. As we resize the image in Lightroom when we capture images, we tend to shoot at the maximum resolution possible. This comes from the use of sensors that capture a large number of megapixels. And for good reason. The more megapixels the camera sensor has, the higher the your images. But, with larger megapixel sizes brings a huge amount of memory used. These large image sizes are not great under well-suited to sharing social media. Either way, you need to turn this 22-megapixel image into something closer to 720 pixels. Here you will need to use Lightroom. For all the information needed to size the images, read our article here. How easy it is to harvest and straighten photos in Lightroom Crop image can help with your composition. Make the image less messy and cuts out distracting areas of your photos. It also allows you to increase the photo and make the object more visible. The Harvest Tool in Lightroom can be obtained in the 'core' area of the module being developed, or by clicking 'R'. This tool is also great for straightening images that may have been photographed outside the kilter. It's a very useful tool and one you find yourself going over and over again. How to fix exposure in Lightroom you may not need to be a lighting specialist or photographic professional to achieve the perfect exposure. Your camera can get very close, but sometimes, your image will benefit from a small setting in Lightroom. Either the entire image may need to be adjusted or a specific area. Lightroom has an auto button in the base panel in the development module. This may correct some other things such as contrast and white. You can also simply move the 'exposure' slider by clicking and dragging it left or right until you feel happy with the result. This can also be done by moving the sliders white, black, glare and shadows to focus on specific areas of your image. The exposure may seem darker because the shadows are a little underexposed, for example. This article will help you understand the tool to look for and how to make changes. The final guide to developing the Adobe Lightroom module - Contrast and tone control under the development module, on the right side, you'll find the tone of the sliders. This is the lock of a local adjustment panel. You will use this the most, as they will cover 75% of what you need in your images. Standard tone impact sliders, contrast, highlights, shadows, white and black. The exposure slider is used to add or subtract light. The contrast changes the tonal range and helps things to stand out a little more. Highlights knock down exposure to the lightest areas. It does this without affecting the entire image. Shadows help make dark areas darker or lighter. This can push back unwanted parts or make it more visible. White and black sliders help create clean white and black areas in your image. This will help naturalize your image Here's an in-depth report on what these local adjustments do. You can use it to get the best out of your images. How to use a curve tone Curve tone represents the tonal range in your your. The bottom left corner deals with shadows and the top right corner with glare. This leaves the middle of the tones in the middle. These medium tones are divided further into light and dark areas. They are easy to set up, you just need to know what you want to change. For example, if you want to make the medium tones darker, just click on the middle part of the curve tone. Gently drag it down. You will see the image change as you do so. For more tips and tricks on how to use this tool, take a look at this in-depth article. How to work with shadows and blacks in Lightroom If the highlights are the brightest points in the image, the shadows are the darkest. These dark areas don't have to be dark, black holes for your eyes to get into. The black filter deals with the darkest areas of the photo, but in a stronger way than the shadow slider. With this tool you can add or subtract exposure and therefore detail in these areas. This helps to make them more certain by giving a more professional look. In addition, the shade can have a beautiful texture or design to it that adds value. Dealing with color Using HSL sliders in digital photography, there are two areas where color is very important. First, when you take a photo, and secondly, when you come to handle the photo. Both have different ways of dealing with these colors. Either in the cell or during post-processing. In Lightroom, color can be changed in a number of ways. First, before you change anything else, make sure you are happy with the white balance. This can be changed manually or by installing it to automatically and customize the result. The shade gives you the ability to replace whole colors in the image. These sliders leave other colors untouched. Saturation focuses on the strength of color. Either by making the main colors stronger or the surrounding colors weaker. Luminance deals with color brightness. This is done by either muting it or making it stand out more. Play with an image or two to get used to how they work. You'll soon notice which areas are affecting and changing. 15 Lightroom keyboard shortcuts to seriously speed up your workflow We've looked at making local adjustments to entire images. But what if you want to change a small part or choose one object from the entire image? Here the brushes and masks come into play. With the brush, you can select areas that need some adjustment and change accordingly. These areas can benefit from adding exposure or knocking down color to make it less distracting. There are many possibilities, from graded to radial filters. You can basically use any of the tools (and more) found in the development bar on the right. They can be copied and ed into other images that have the same problem. This reduces editing time, leaving you free to capture more There is nothing easier to remove in Lightroom than red eyes. It even has its own specific area in the main part of the development panel. Red eyes come from a direct flash reflecting blood vessels in your subject's eyes. The bright room is here to help. Choose a red eye correction tool, drag the area above the eye and then release. This is done automatically. But a little tweaking may be required. In this case, read our article to better approach this decision. How to sharpen blurry images in Lightroom - Easy Step by Step Guide Lightroom is a great tool for changing image size, trimming, or adding local adjustments. Sometimes you will need to edit the subject too. Seeing your image on the big screen can be a huge help. You'll see if the image is a little out of focus. If you have witnessed this problem; Don't panic! There are ways we can help him. Fortunately, we have a powerful sharpness tool at hand. To sharpen the image we have all the information you need. How easy to blur photo backgrounds in Lightroom Blurring backgrounds can be a very important tool. If the background distracts attention from the topic, this is the article you should watch. Adjust the brush in the development module where you start. The idea is that you draw the area you want to be affected by. Then the sharpness and clarity of the sliders that you bring down to achieve the desired effect. One way to do this is very easy to include the show selected mask overlay feature. This is before you start drawing with a brush. This will show you which areas will change when you play around with sliders. What is Presence? The presence bar is at the bottom of the core area in the module being developed. This area encompasses clarity, vibration and saturation. Clarity is mostly a contrasting tool, but for medium tones. It's great for adding a kick to your image without making it look unnatural. Vibration and saturation make colors more or less powerful. It helps to create a common balance in your photos This article tells you in more detail when to use Vibrance and saturation. Also, what impact they will have on your photos. How to edit black and white images in Lightroom Converting your color into a black and white photo in Lightroom is very easy. It's literally a click of a mouse. You'll find a black-and-white tab in the adjustment bar in the development module. Voila! But you will find the picture is not as powerful as it was in color. This is because color photos work on different aspects than the black and white alternative. Here you need to focus on contrast, texture and light to separate the foreground from the background. The image needs to be set up to get the best benefits. But our article you convert and adjust as needed. How to edit Instagram photos in Instagram images are often filtered, and sometimes to death. This is easy to do, as the smartphone app has its own editing area. If you're not looking for that Instagram feel, there are other ways to edit images. Lightroom is a great tool for these images. The advantage is that you may want to want your images in a famous square format. Presets also help party image processing to maintain your style. How to create a contact sheet in Lightroom Classic CC (5 simple steps) one of the challenges with digital photography is you will lose all the aspects that movie photography has given you. Stepping into a dark room, smell chemicals and looking forward to printing evolve. You will also miss these interesting contact sheets that Magnum was known for showing. Luckily for you, there's a way to repeat this with Lightroom 6. When printing, they offer you a great preview before you print the images in a larger ratio. Fixing lens distortion problems in Lightroom distortion is a common problem in photography. Wide-angle lenses are particularly noticeable with distortion. Even your point of view, either shooting up or down, can create some strain on your subject. Fortunately, Lightroom has a certain tool that can fix these problems. The lens correction area of the right panel in the development module is the place to navigate. This correction can be made automatically if the lens you are using has a profile. If not, you can correct the imperfection manually. Our article gives you all the tips and examples you need to understand how to fix lens distortion. If you want to learn more about lens distortion, we have an article for that too. Chromatic aberrations purple or green halos around the objects in the image. They tend to have a lens problem and something else that can be fixed in the lens correction panel. You may even need to click on the checkbox to fix the problem. If that's not a fix, then the de-fringe slider is now your new, best friend. Move it until it's gone. Simple. How to reduce the buzz in your images with Adobe Lightroom As you have undoubtedly learned by now, using a high ISO will inevitably add noise to your image. It may just be the gritty style that you're after, but if it's not, you'll want to remove it. The problem with noise is that any process of deleting it will affect the quality of the image. This is because smoothing pixels removes small parts. Noise removal also affects the entire image, and cannot be masked or applied only to certain areas. This process takes place in the detailed section of the module being developed with the section It is useful to know whether the noise is from brightness or color. If you don't know, you can use both sliders to determine what affects the photo. This article offers you more help in de-de-izedization Image. The special methods and processes of creating HDR images using Adobe Lightroom HDR (high dynamic range) is the end result of three or more exposures merging together. These types of photos are multiple exposure bracket images, meaning three (or more images) all have different exposures. This method is used for scenes where there are dark and light areas with lots of details that you don't want to lose. While in Lightroom, select the images you want to layer and click on Photo/Photo Merge. A preview window will open, which will give you a few options. Automatic alignment should be checked if you are photographed portable (not recommended). Auto Tone is a good starting point for an evenly toned image. This article will help you find out what to look for when you merge photos, and what to do if you're troubleshooting. Craig Hull - craighullphotography.co.uk How to Create Time-Lapse Using Lightroom and LRTimelapse To create a time lapse using Lightroom, you first need to take a sequence of images. Usually using a tripod and an intervalometer. If you have all the images, import them to Lightroom, preferably in a separate folder. Go to the first image, edit it for exposure, sharpness and color management. Ctrl/CMD-Shift-C copies all settings. Select all photos and use Ctrl/CMD-Shift-V to insert settings on all images. Choose a collection of images and go to the slideshow module. You'll need a template that you can get here. Choose a template from the template browser. Then click the export video and select the desired resolution. It will take a few minutes to make the video, depending on the number of images. Lightroom Presets Presets in Lightroom can add tremendous value to your work, and save a lot of time on your workflow. They are ready-made settings that will be added and used exclusively in Lightroom. Aspiring photographers, photographic editors and software manufacturers all make their own. They range from free to expensive. A huge collection of free Lightroom presets here's a link to 1064 free Lightroom presets - ready to use on your photos. Follow the instructions below on how to install them. How to install Lightroom Presets presets are a great addition to your workflow. This article will show you how to add the ones you found online. It will also show you how you can save your own. This allows you to reuse them for all images, saving time in the process. How to make and save preset in Lightroom from time to time, you create an adjustment that is just perfect. This is your landscape or street photography right up to T. Knowing how to make preinstalled and save it means that you have it ready to go. Click and your image is ready to be shared or printed. It's also an ideal method for batching images of the same subject, time, or location. Get ready to save time. How to create a film Photography Look into Lightroom Film look at digital images all the rage lately. This can have something to do with the time, energy and money that it takes to take a picture on an actual film. That's understandable. Why go through the whole process when you can create a digital look. Personally, there is nothing better than the real thing. Saying that using Lightroom saves you a lot of time. Let it do its job and add these grainy color changes to today's images. All you need is our article. The Nik Collection for Lightroom The Nik is a set of seven premium photo enhancement filters. They can be used as Lightroom plugins, or as offline editing software. Each of these tools is a whole digital dark room dedicated to a particular technique. The download of the file was a bit fastidious. You can download it here. You get a free 7-day trial when you enter your email address. The company DxO, which owns the software, and then send you a subscription confirmation email. Clicking on this will take you to the website, which is where you expect the download to be. There is no link, no information and no tab for Nik software. You will receive a link to the download in an additional email. This article about Nik Collection gives you an in-depth look at how to use these tools. They run small programs in Lightroom themselves, so a little help is required. It also tells you exactly how tools affect your images). Use them to customize your own images. Export and backup how to export photos from Lightroom Adobe Lightroom is different in that you do not save images, but rather export them. When you do, you can save the original file format or switch to a standard jpeg. Others can also be used, but less common. PSD (by default Photoshop) is an export file that is used in Adobe Photoshop for further editing. TIFF (Tagged Image File Format) or DNG (Digital Negative), which adobe created as a non-loss in the format of raw files. When exported from Lightroom, the program creates a file that saves all the changes made. This data comes from adjustments and the addition of metadata. You can rename images, place them in specific folders, and even repeat the same process at the touch of a button. This is instead of constantly opening the export dialogue window. There are many ways to export. Using a large button at the bottom of the Folders panel in the development module. Clicking on the export file using the keyboard shortcut or even to set up social media accounts such as Facebook and Flickr. How to back up and challenge to shoot is an area you want to learn about now, not when it's too late. Backing up your data is very important anyway. Solid disks can fail, computers shut down, errors happen. Having a backup means you can worry less and focus more on photographic photography Skills. There are many backup image backup systems. You will need to find one that works for you and your budget. Fortunately, the images are digital. This means that you can copy them many times and store them in different places. Organizing photos in Lightroom is effectively a must. It's also one way to keep control of your photos. If you use one directory, it's easier to keep a connection between it and the master files. This article has great tips on what to do, what to look for and possible situations that you can troubleshooting out. From. lightroom 4 tutorials for beginners. lightroom 4 tutorials for photographers. lightroom 4 tutorial pdf. adobe photoshop lightroom 4 tutorial youtube. adobe lightroom 4 tutorial. youtube tutorial lightroom 4 español. lightroom 4 tutorials youtube. lightroom 4 tutorial deutsch anfangen

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