

Hello everyone and today I want to show you a little when we work on 360 photos for a virtual turbo and above all I usually say oriented to Google, to Google Street View, but when we have a process that we will try to make sure that the majority is with batch processes, for.

a quick process, later we will see how to do it more detailed or more careful.

Well, we are at the first point, it is Lightroom and in Lightroom we do the import, we go to the import library, we select where we have the source photographs to do a test, I select with Shift, the first, the last and I click on one of.

They select all those that are preselected, if they do not have the tick they will not be imported.,

agree even if they are in Chris.

We check here, there are two methods, until now I did it by copying as DNG, but copy copies the RAW directly.

The benefits of DNG are that DNG is an open source RAW, it is where it is understood.

with any program and there are times that the camera's own ones like Sony's have.

ARW, Canons have CR2 it seems to me, so it may be that if you don't use Lightroom, you don't use.

Adobe, you use another program, to work the RAW it may not recognize the RAW, mother.,

the RAW file source and this is a standard.

Here we review certain things that you don't mind the duplicates, if you want to do.

a second backup and now just add to collection, since I created a collection.

and he asked for 360 within the project and so he's going to put them in the collection.

We may have some custom or standard preset, it may be that the moment to.

add more automation to the process, but lately I have not been doing it either and here we have to indicate where we want the import to go.

Below we select our folder where we are going to do it and it asks us what.

If you organize it by date, T will create a subfolder with the year and date they have.

the camera metadata when the process is done.

You can select by folder, in this case it does not take it because it takes it if it is.

from camera SD.

It seems to me that by date I am personal how it is organized and reviewed all this we give you.

to import.

Once the import is finished, the process bars are finished up here, we go to the reveal tab and here we have all the ones that we have imported and he added them to me.

within the 360 collection as in fact.

So the flow that I recommend that I'm using lately is that we look at.

here these are the original camera settings.

Well, since they are 360 and 8.8 millimeters, we are going to have 4 tours, 4 views at 0, 90, 180 and 270.

And as you have seen, here the color temperature changes and to make a 360 the best possible thing is for it to be consistent in the color temperature and exposure at all angles..

of turns.

So I'm going here to the first one, especially the façade, which is the one that interests me the most..

for customer who have real colors and revised.

And here I can go, because if there is a white part I can click on the white part and that.

give me an approximation, I see that the colors are warmer than what I had taken.

the camera and I can go by hand and correct if it had a redder or greener dominant, in this case I have renewed it a little and especially from RTR where I do.

And this is where in principle I don't touch anymore, if I saw that there was something around here that I didn't.

It has turned out well in camera, it could touch exposure but you should get it at the same value then.

Sometimes I have corrected half a point or a whole point of exposure and I correct it to all.

Let's give it half a point and bring this a little more to the center.

So let's go here, the next thing I do in Lightroom and I don't do anything else is remove.

the chromatic veration.

I select the first one and since we are outdoors and this turbine, as most of them are exterior and interior, I go to the last exterior of this series, here we are already inside with the first selected and the shift key I go to the 27th and I hit synchronize.

In synchronize I will normally synchronize only color temperature and lens correction but since in this case we have made the exposure, we mark exposure as well, we press synchronize and any of them has the balance in the exposure and the aberration the same in all the photos.

We go inside and do the same process and in principle the Lightroom, the last step, we select the first one, we select the last one with shift and I click on export hard drive specific folder, I already have one on a different hard drive to export and here I give it to place in a subfolder that the name is with the identifying project and it.

I put the tif tag because I keep the tif here because later when we finish.

The idea is to export the secretanulars in jpg, therefore we will have a tif folder and another jpg folder.

And here check that there is nothing more marked than choosing tif here, the color space.

16-bit srgb and nothing else would touch here, export.

Once Lightroom has finished here we close the progress bar, I usually like to configure, edit catalog settings, backup every time it is saved.

of Lightroom because Lightroom is a program that, from experience, has corrupted me several times..

times in the projects and I have had to go back to previous versions so yes by protocol.

Every time a copy is made, the backup copy itself has been very helpful to me..

catalog, then I click ok and when closing it will ask me where I want to make it and I tell it can I create a route there or how do I have a specific hard drive for Lightroom backups and it automatically generates it for you with a number different in each copy or you can tell or look in this case backup copy.

Let's continue to our hard drive folder, this is where the Lightroom catalog import has been done and we have exported, we have to remember the path where we have exported.

and here we have the name of the folder and all the exported tif, corrected with the corrections that we have made in Lightroom and here we would have all the tif.

This is where I recommend in Windows, in Mac it does not have this system of organizing the folders but in Windows it is very easy for me to see very large icons and I resize the screen so that there are 6 at the top and 6 at the bottom, it is very easy to see that this it would be a panoramic.

complete with 12 photos but in this case we see that I have repeated the facade because here too.

It's very easy, instead of Lightroom, I usually do it here in Windows because at a glance.

It is very easy to see that it is repeated then in phases of 3 with the bracketing I select.

this and I delete 0° 90° 180° 270, here we already have our first panoramic, 12 photos, we see and this is here as it is a demonstration project, I have left over them I delete and in the folder I have to have 48 photos, we open the calculator 48 between 12, 4 panoramas.,

We have to get 4 equirectangular photographs with this series of photos, we open.

peteri and we have several ways to do it, we can bring 12 at a time, we drag them and it asks us that the metadata of the camera has been made with a Sony with an 8 mm p eye, I accept.,

this process in which we are going to leave the HDR to peteri for the optimized workflow.

and quickly, it can be done in Lightroom, in this case we have decided to do it with the 12 photos in peteri, here we would have the 12 photos, with the good and the correct one, the option to enable the HDR mode, we say yes, the first option, accept, but it is without.

sew, therefore we are left with the non-religious and if we have the kneecap correctly balanced.

We would already have the stitched panorama, down here in the details viewer we can confirm that the HDR has been output correctly and there are no stitching errors, therefore create a panorama.,

we optimize the route, create a panorama and it has generated the panorama correctly, we must do this with each of the photos we have, but to optimize the process.

and since the purpose of this video is to see an automated process, we are going to create a new project and instead of looking at the images here we give you batch generator tools, we are going to work with batch generator and batch stitcher, the generator of lots it will generate for us, as the number itself says lots, with parameters that we believe in.

a template and then later it will send them to the stitcher to sew the 360 according to the parameters that we have indicated the batches, then we give it to the generator.

of batches, detect panoramas that would be the equivalent of uploading images, let's go to our.

exported folder, we select it and it is also important here to indicate the number of photos we have, so we are working with 12 because we are going to let the HDR do it.

the PT, detect panoramas and has us perfectly organized, what has happened here? what how.

We have previously done one in a normal process, it is not worth it because we delete it here and it follows us.

passing here, then we have been out of square, we close the batch generator, we come to our folder to delete this grid because the sides generate right now, batch generator.,

detect panoramas, our folder, 12, detect and now we do have our four panoramas ready to be sewn, in this case here we have to tell if project.

empty or one of the templates that we already have prepared, I have here prepared.

with my camera, with my lens oriented to google in TIFF and 12 HDR to make me the.

process because if I export from Lightroom, with the HDR I have another template here to.

to make them for me by mixing the four inulas, in this case I tell you to use this template.

which runs align images which is what we have done here in the second step, this.

template already has to apply HDR in groups of three and I tell it not to delete me because.

I need the projects, well these are your decisions and it is evoked in the sewing of some that the project has generated for me and I can see where it is wrong, I like it.

save the projects and tell it to send to the batch generator because if you have seen.

here tools, Batch Stitcher, then when it generates all the batches what.

What you are going to do is create the PTI projects with the stitched photos and you are going to automatically send them to the stitcher, to the Stitcher so that they can generate the words, all in one, generate.

the project and here it starts to create the PTS projects which are the PTI projects.

Let's go to our folder, I have configured it so that I don't mix it up with these photos..

and it creates a project folder with the four projects for each photo and a panorama folder with the four equirectangular ones. What is happening?.

We have the nadir, we have the legs of the tripod and a black hole at the nadir. These photos have been taken with a ring head and with an inclination of 7.5 degrees upwards. Well, we will have both the Zenith quite correct, but we have a hole, a trace. at the nadir we return to peterí we load our equireltangular we check that it looks correctly here in equireltangular.

in image parameters they have to be already or pichero al steel.

and in equireltangular projection and in equireltangular lens the process to retouch the nadir that I propose today.

is to export the view in straight line of the nadir therefore we have to go to image parameters.

In pitch, give it 90 to focus the camera towards the nadir. We display here and change the rectangular to rectilinear, therefore we have a photo taken towards the nadir and here we are going to reduce the field of view to 90 by 90. We can reduce it further, our footprint is larger. small.

60 by 60, for example, we have a lot of area, we click on create panorama, I save it, in my case I save it in TIF, here I don't touch anything and I click on expo to create panorama, it has generated here I have the nadir footprint and corresponding to its photo it keeps me the name of the file and adds a panorama so as not to overwrite. So I have the couple here. I open it with fotosol and here we have several options. I only selected the patch tool because it allows me to make a very free selection..

but there are other types of selections and here we have two options until now I was using generative fill or content-based editing until now I was using content-based fill and it worked quite well but it required me with complex floors like this.

I needed to go and retouch.

we undo and since the last version 2024 we have generative fill we don't tell it anything and we tell it generate when it has finished here it shows us three proposals here for example I am not very happy with the work it has done.

but normally one or the other will convince you a little more, you could hit generate again and have it generate other options.

but it is a floor, this is fine for me, here we have the before and after and it is fine for me, I select the two layers and I tell it to fulfill the image and I would have mindir corrected, I could take advantage and make any other adjustment of the floor that I do not like.

since I am in a rectiline image.

and I have no problem with the perspectives, I click save and now we have here the addition of our first and that retacular.

corrected we open a new project in ptg and load our couple of images 3767 nadir and well here we have to retarget.

and now here we have two different objectives, a rectilinear objective and a rectilinear objective, so we have to come to the entity.

the first photo is in rectilinio and the second is in rectilinio ptg has recognized it correctly but if not there would be a problem we would have to.

what to edit.

The projection here is going to be rectilinear and the field of view is 360%. Let's go to the image parameters we have to send.

we have to put the nadir down.

minus 90 and we no longer have it placed here and the preview we already have our nadir correctly applied here and we directly click on create panorama create panorama and I can tell you open in the ptg viewer to see that correctly.

from heaven and at the same time that is what belongs to us.

We are also going to do this in the batch. We open a new project. I am going to delete what I just did now..

because we are going to do them again.

so that I can take all four in batches and not mess with the nadir.

While the batch generator is detecting panoramas, let's go to the panorama projects folder and here we say one, detect panoramas, we have the four here that are rectangular and I have created a template called extrader nadir..

with what.

We just looked at the configurations and I have another one that is to apply nadir.

Therefore, first I give extrader nadir, which I say do not execute, there is no need to align.

images and in this case I am not interested in the projects and I should directly send it to generate the nadirs.

As we see in our folder we already have each pair here rectangular with nadirs in Photoshop we are going to do it through actions therefore I am going to create a folder called.

nadirs here I also usually organize them like this because here there are four.

but when there are many and you place them in a row of two selecting like this I tell it to copy and I tell it and I take only the nadirs to a separate folder we open Photoshop actions window and I have generated a folder here with Google actions okay I have some actions Google, I have moved you like nothing there.

to touch up the nadir just as we have done before but in the batch I am going to open one so that.

let's see what he does.

define selection selects a circular selection centered where the nadir and generative fill that we have seen will be.

The filling is going to copy it, as we have seen, it is going to save and close and it is going to do this with all the nadirs that we have..

in a folder if I press nadir and press play it does it to me in this specific photo they close it and here we confirm that it has retouched us.

but as in our case we want it to be done in batch.

we delete the photo I bring the nadirs again to get the one I'm missing.

I bring it clean again here and in Photoshop File automate batch we select the actions folder and the action we want to apply.

We say what folder we want.

We go to our projects folder for nadir branches, this is why it is important to separate the nadirs because here we would make the process in the same direction..

circular and in the nadir we separate the nadirs, we select and it is going to do it in batch and it is going to update all the nadirs with the chosen action once it is finished here we have the four nadirs retouched with the generative fill we could go by hand to polish some detail or some shadow that you don't like.

Sometimes it can create an extra artifact but for now this works for me, I go up to the top level, I see about it, I write and they update the nadirs. This folder is no longer useful and here I have the four equirectangular fills, paired with their corresponding pair 1, pair 2, pair 3, pair 4 we return to PTG tools, batch generator, for tetrapanoramas we look for the folder of the panoramas and in this case as they are pairs of two tetrapanoramas each nadir matches its equirectangular we apply the template apply nadir do not execute delete file, send to the sawed list, in the batch stitcher, once you have finished and exported them we will all have them in the same folder, I resize them here because it is very easy for me to see.

the nadirs in the middle and the equirectangular ones, as well as the loose nadirs and the equirectangular ones without the nadir, I have touched on it, it doesn't work very easily, I select and keep the column on the left.

which has already applied the nadir correction.

I eliminate and have my four equirectangular ones perfectly with the background with the nadir corrected as an extra action and since they are going to go to Google.

and here we have license plates in the case of Caras it would be the same here if you have to go manually.

and we would open the equirectangular ones one by one in Photoshop and here in our Google actions folder we have created one that is.

Blur Faces License Plates to blur Faces and License Plates then we go and zoom in to see if I make a selection here this action what we have is.

that will generate a gradient in the selection.

so that it is not.

very abrupt because if I apply.

plug-in filter blur gaussian blur.

This cut is going to generate a cut in the transition so that it is not something so abrupt.

I have put a blur on it.

on the selection mask and then a Gaussian blur.

level 10 enough because it might be that.

When we have a lot of zoom there are moments when you can read.

the registration thing that.

We are not interested, so I make a selection manually, I hit Blur and I hit Play and it blurs it so that you can see what you understand what I'm saying..

If we look at the ones here, as I am at a closer level to the license plate, if I apply a blur filter.

Gaussian blur.

and I hit it with a 2, it reads a 3, it reads a 4, it reads this, it could still be entered there, and with a 10 it could be less, I'm out of person for each one with a 10, I'm covering it, so I give it here Blur and Play, this is it. We do with each one that passes what we do with Shift.

with Shift we keep the selections then again I go here to the right side of the photo and quickly select all the license plates but by pressing Shift and when we have all of them in the same way we click Play, we select the mother, the root we click Play and we It will blur all the selections and this should be done.

with each of the panoramas and as the last last phase of the flow convert them to JPEG because the Google Studio editors.

They accept JPEG therefore in Photoshop very easily file under automate script, image processor we select the folder of our already corrected equirectangulars remember to have deleted the nadirs folder and we tell it that.

I saved them in another folder, in my case, as I told you, I like that.

let me put it on.

Here I am going to have the nadirs folder, a folder next to the jps, so I tell it to export so that it is the same level as.

the atif, generates the jps, I select jps, quality, principle 12 and just in case.

I apply whatever color space it receives, I don't do anything else, as long as they are all.

deselected we could also apply some action but in this case it is not appropriate and I take the opportunity here to put the copyright in case it would be somewhere, as normally the jps are the ones who come to facilitate the client to at least take the topic.

of the copyright that you give it to execute and it will pass all the images in that folder.

and you have already generated the jps here and here we have our jps ready to upload to google stream or send them to the client, I hope it has been of help to you and we can do anything.

continue through the comments.