

## **Luminosity Masks Program Notes**

### **Gateway Camera Club January 2017**

#### **What are Luminosity Masks :**

- Luminosity Masks are a way of making advanced selections in Photoshop
- Selections are based on Luminosity - how Bright or Dark an area is.
- Good post-processing - Applying the Right Adjustment in the Right Place
- Lightroom makes Global Adjustments, limited ability for Local Adjustments
- LM selections are a better tool to make very precise Local Adjustments
- LM's are a Powerful Tool to Make Your Images Really Pop

#### **What you Will Learn about Luminosity Masks :**

- Overview of the Photoshop Fundamentals behind Luminosity Masks
- Layers, Masks, Adjustment Layers, Selections, Blending Modes
- How Luminosity Masks make Selections in Photoshop
- An Overview of the most common ways LM's are used
- The goal of this presentation – to illustrate the Creative Possibilities
- Focus on what LM's can do, rather than the keystrokes needed
- Other resources give you a better understanding of the mechanics

#### **Luminosity Mask Resources :**

- You need Adobe CC Lightroom plus Full Photoshop
- I use Tony Kuypers TK Actions Panel V4 which sells for \$30
- Sean Bagshaw produces excellent Video Tutorials about LM's
- I highly recommend Sean's videos (\$45), as a great learning tool
- Other resources; Jimmy McIntyre, Greg Benz, and Aaron Dowling
- They sell action panels and video tutorials, but also have free stuff too
- Via email, I will provide links to each of these resources

#### **How are Luminosity Masks Commonly Used ?**

- Can use for Single Image Edits, or for Multiple Exposure Blends
- Use LM's to make Targeted Local Adjustments to Exposure, Contrast, Color
- Midtone Masks provide very fine control over how Contrast is adjusted
- Dodge and Burn layers to Balance Tonalities – Luminosity Painting
- Targeted application of Saturation and Vibrance via Masks
- Create Natural Looking HDR images via Manual Blending of Multiple Exposures

#### **Why you Should be Using Luminosity Masks :**

- You should use Luminosity Masks if you :
- Want very precise control over targeted post processing adjustments
- Want HDR image blends to look realistic, and not “Photomatixed to Death”

- Your processing to be driven by your own Creativity, and not by Presets
- Are looking for ways to make your images Stand Out from the Rest

### **The Downsides of Using Luminosity Masks :**

Luminosity Masks are Definitely Not for Everyone

They have a steep learning curve, and are often time consuming to use

You need to have a clear understanding of what adjustments your image needs

They are not a “One Click Fix”, you often make multiple adjustments

They can create large file sizes with many layers

Requires strong understanding of Photoshop; Layers, Masks, Selections

### **What are Global vs. Local Adjustments ?**

Global adjustments to exposure, contrast, saturation affect the entire image

Local adjustments target specific area or tonalities within the image

The Tone section of the Lightroom Develop module makes global adjustments

Lightroom makes crude Local Adjustments via the Adjustment Brush

These local adjustments are hard to control precisely, and are prone to halos.

### **Photoshop Basics – the Foundation for Luminosity Masks**

- Selections, Layers, Adjustment Layers, Layer Masks
- Layer Blending modes, Channels
- A strong understanding of these concepts are just the starting point for LM's
- I'll provide a quick overview of these concepts

### **Layer Masks**

Think of Layers as stacked transparencies

Only the top layer in the stack is visible

**To see the Layer below, the Eyeball icon turns layer on and off**

On the Layer Mask; **White Reveals, Black Conceals** the adjustment made

White Mask it shows the full effect of the adjustment made

Black Mask or Inverted mask hides the effect of the adjustment made

Paint on black mask with white brush to selectively apply the adjustment

Tones of Gray represent partially selected areas

You can vary the strength of the painting by adjusting the opacity of the brush

**Show use of Graduated Filter to create Blend**

### **Adjustment Layers**

Two Parts – Adjustment Icon, and Layer Masks

Typical adjustments are Levels and Curves to effect Exposure & Contrast

You see the Image (that's highest in the stack) plus the effect of the adjustment layers

Layers have Blending Modes – Most useful Screen, Multiply, Soft Light

Screen Mode Lightens

Multiply Mode Darkens

Soft Light Mode adds Contrast

### **Selections & a Hint at the Power of Luminosity Masks**

Selections are a way of picking areas for adjustment in an image

Two common methods are the Lasso and Magic Wand Tool

#### **Example 1 Herbert Lake - make selection with lasso then add levels adjustment layer**

Make a selection of sky with Lasso tool, the Marching ants appear around the selection

Add a levels adjustment layer – the selection appears on a mask

When viewed on a Mask, you see the selection area **White Selects, Black Rejects**

Any adjustments made only apply to the selected area

#### **Example 2 Herbert Lake – make a selection of sky with the Magic Wand Tool**

Selections can either be Hard Edged or Feathered selections

Hard Edge selections can create halos, and odd looking transition areas

### **Hint at Power of Luminosity Masks – Herbert Lake Example :**

**example – (L1 + Levels Adjust) (D3 + Curves Screen 100%) (L2 Curves Multiply)**

### **Overview of TK Actions Panel V4**

- Actions Panel is a Photoshop extension that you install
- It contains Photoshop actions, which are recorded commands that can be played back
- This automates the creation of Luminosity Masks, a significant time-saver
- The top section of the panel are one-click Photoshop command buttons
- Saves you from having to find commands buried in sub-menus, or remember keyboard shortcuts
- The Spectrum Tab is the most important part of the Actions Panel
- These one-click buttons automate the creation of luminosity masks

### **Overview of Actions Panel**

- A common use of LM's is to apply adjustments in targeted areas on a single image.
- Many Luminosity Masks available Highlights, Shadows and Midtones
- The Panel also has Subtracted Masks – Combinations and Subsets (Zone Masks)
- Has Zone Masks that make selections similar to the Zone System tonalities
- Masks that target Colors – Color Channel (lower left), Color Range (lower right)
- The Actions Panel also has customizable “Infinity Masks”
- Saturation and Vibrance Masks

### **How to Make Selections with Luminosity Masks**

- Luminosity Masks are created by Intersecting channels in Photoshop
- This is too technical to get into, and the Actions Panel automates it anyways

- All you need to know is that Luminosity Masks are a selection tool which creates masks.
- The selections are based on Luminance, or the brightness or lightness of a color.
- LM's target 3 main zones of an image: Highlights, Shadows and Midtones.
- Similar to layer masks, **white reveals**, **black conceals** and **grey partially reveals or conceals** depending on the luminosity value.
- Once you click on a luminosity mask, marching ants will appear around the selection.
- Conversely, the area outside the selection is unselected. This means it will be black on the layer mask and the part of the image underneath it will be concealed.
- The marching ants are not the border of the selection, it's the midpoint of the feathering transition.**

## Making Targeted Local Adjustments

Targeted Adjustments involve making a luminosity mask tonality selection from the spectrum tab, combined with an Adjustment Layer to adjust that selected area

- The Mask created by the selection constrains/controls the adjustments
- Exposure and Contrast can be affected by **Levels and Curves Adjustment Layers**
- Adjustment layers combined with **Layer Blending Modes Multiply (darken), Screen (lighten), Soft Light (contrast)**
- Lights 4 and Lights 5** are useful to reduce Exposure in overexposed highlights
- Darks 3** can be used to increase exposure in Shadows
- The selections are self-feathering and blend seamlessly - No Halos !!!**
- Adding **Contrast to Highlights via Lights 2** also makes your images pop
- Strength of adjustments can be modified by adjusting layer opacity

## Example – Teton Flowers

In Lightroom Highlights -31, shows +33

Lights 2 Levels, to darken highlights, then black brush paint out foreground on the mask

Darks 4 Levels, lighten foreground (Try Darks 3 first, Darks 4 works better)

Midtones 2 Curves soft Light Blend 50% opacity

MT 2 curves Screen Blend set at low opacity

Darks 4 Photo Filter to Warm Up foreground

## The Magic Midtones

- Midtones are fairly broad tonal selections, useful for controlling application of contrast
- Midtones 2** is often a great tool to add **Midtone Contrast** (similar to S Curves)
- Generally need to dial opacity down to a 20% to 40% level for best results
- Building up contrast via targeted adjustments to several tonalities produces much better results than just making global increases to contrast in Lightroom.
- Adding Midtones contrast protects extreme highlights & shadows from contrast adjustment**

## **Color Masks** to target specific Colors

- Allows you to make selections based on colors, rather than tonalities
- Two types of color masks; Color Range and Color Channels
- Color Channels masks work off channels, selecting Light or Dark tones of the RGB channels
- Target Red, Green Blue, Dark and Light tonalities of those colors
- Color Range Masks work off the Photoshop color Range tool
- Wonderful tool for controlling varying tones of blue in the sky.
- Example Arches – Channels Blues Lights 4 targets lighter blues in North Window
- Reds Lights 4 Targets Brighter Areas of the Arch

## **Dodging and Burning**

Technique used to increase or decrease the exposure on certain parts of an image.

### **Dodging and Burning takes care of mistakes God made in establishing tonal relationships. - Ansel Adams**

- Photoshop Dodge and Burn tools disadvantage - destructive changes (meaning not reversible)
- Actions Panel creates Dodge and Burn transparent layers set to soft light blend mode.
- Make adjustments by Painting with a White Brush to Dodge and a Black Brush to Burn.
- Because the adjustments are made on a separate layer, they are non-destructive (reversible).
- Best approach is to paint with a low opacity brush (5% to 15%), and gradually build up changes.
- You can either paint directly on the transparent layer, or paint through a luminosity selection
- Luminosity Painting - Dodge & Burn through a Selection**, you affect only the targeted tones, and you get smooth transitions because of the feathering of luminosity masks.
- You can also **Dodge with a Color other than White** for even more creative possibilities.

## **Saturation and Vibrance Masks**

- In Lightroom, Saturation has a much stronger effect than Vibrance
- Lightroom's Vibrance has a greater impact on cool colors like blue, and a lesser effect on warm colors like red, yellow, orange. Lightroom Saturation has a stronger effect on these warm colors
- This difference helps protect skin tones from being over-saturated
- Lightroom Vibrance darkens blues and affects tonality, as well as saturation. This is good if you are trying to mimic the effect of a polarizing filter. But it is bad if you have just spent a long time to get the tonality of a sky where you want it, only to have it then darkened by a Vibrance adjustment.
- The TK Actions Panel has 4 masks that target the degree of saturation in colors, and allow for a much controlled application of saturation to an image.
- The Saturation Mask targets the most saturated colors, fading into less saturated

- The Focused Saturation Mask is even more focused at selecting the most saturated colors
- The Vibrance Mask targets the lesser saturated colors in the image, and the Focused Vibrance mask target the least saturated colors.
- I use the Vibrance Mask increase saturation of the less saturated colors. This tool has the added benefit that it does not affect the tonality of blue, unlike Lightroom's Vibrance tool.
- I use the Focused Saturation Mask to Reduce saturation in over-saturated colors
- Most images can handle an increase in saturation in less-saturated colors via the Vibrance Mask
- Then I use the Focused Saturation Mask to reduce over-saturation in specific colors or areas.
- When you increase contrast in images, you also increase the saturation of colors. The use of the Focused Saturation mask to selectively reduce the saturation of colors allows you to increase contrast without having large increases in saturation.

### **Putting It all Together – Single Image Edit Start to Finish**

#### **Thors Well Example :**

Lights 1 Levels Darken midtones via slider

Darks 3 Levels, lift shadows via slider

MT 2 Curves Soft Light blend 50% opacity

Lights 2 Photo Filter, Pick color from sky and boost up to 75%

Dodge the lighter foreground rocks

Vibrance Layer +30 to composite, then do a little extra in yellows

### **Creating Blends of Multiple Exposure Brackets for Natural Looking HDR**

- Generally Produces More Natural Looking Results than HDR Software like Photomatix
- You control how the tone-mapping is done, instead of the presets of some HDR software
- Use 3 to 5 bracketed exposures, generally taken one stop apart
- In Lightroom make adjustments to White Balance, Lens Corrections, Shadows, Highlights
- From within Lightroom go Edit in Photoshop > Open as Layers in Photoshop
- Arrange darkest layer on top in the layer stack, lightest layer on bottom. Align Layers
- Determine which parts of which brackets you want to use for the blended image
- Find a Luminosity Mask that separates the sky, Lights 2 is often a good choice
- Paint on the sky mask with a white brush set to Overlay mode to get even better separation
- Find other luminosity masks to blend in mid-ground and foreground elements
- The goal is to create a blended image with balanced tonalities, that serves as a starting point for further process, just like in any other single image edit.

#### **Moraine Lake Blending Example :**

From darker layer, try a Lights 2 mask, it wont work, then try Lights 1 it will work better  
Then make a Lights 3 selection to freehand paint white on mask at 100% opacity to  
darken sky further

Merge visible to create stamped copy  
Then add Levels Adjustment layer, move MT slider to left  
Then MT 2 Curves, Soft Light Blend 405 to add midtone contrast  
Burn bottom corners, dodge the logs

### **Patriarch Tree Blending Example**

From Top Layer do a Lights 1 Sky Mask, Overlay White to just the sky (not mountain)  
On middle layer, make Darks 2 selection, then Invert to reveal foreground detail  
On Layer Mask of layer 2, pain black over foreground to reveal even more  
On bottom layer, add a levels clipping layer to put some contrast in foreground  
Do an overall MT 2 Soft Light blend to add some MT contrast

### **Luminosity Mask Resources :**

Tony Kuyper  
<http://goodlight.us/writing/tutorials.html>

Sean Bagshaw  
<http://www.outdoorexposurephoto.com/video-tutorials/video-tutorials/>

Aaron Dowling  
<http://www.aarondowlingphotography.com/luminosity-action-panel/>

Jimmy McIntyre  
<http://www.shutterevolve.com/luminosity-masks-tutorials-digital-blending-course/>

Greg Benz  
<https://gregbenzphotography.com/lumenzia/>

A nice discussion comparing different Luminosity Masks alternatives  
<http://discuss.topazlabs.com/t/luminosity-mask-buying-guide/18094>