

LEARN HOW TO SELECT WITH EASE, AS OUR EXPERTS GIVE THEIR ADVICE ON THE BEST SELECTION TOOLS AND TECHNIQUES TO USE IN PHOTOSHOP

o matter what kind of Photoshop images you create, the likelihood is that you'll need to use Selection tools, and use them well. But as Photoshop has evolved, so have its tools for choosing, cutting out and applying image elements. We're now faced with a plethora of options for working with selections, and

although these offer much greater precision than was previously possible, the sheer number of options can lead to confusion as to which is the best tool for a particular job.

To solve this dilemma, we've rounded up some of the industry's leading experts across a wide range of imaging disciplines to explain how they use Photoshop's Selection tools and share

their tips, tricks and hacks for getting the most from them. Whether you're a digital painter, illustrator, compositor or photo editor, read on to discover how you can use Marquees, Lassos, Masks, the Magic Wand and the Pen tool to increase your precision when cutting out, speed up your workflow and enhance your images.

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PHOTOSHOP EXPERTS SHARE THEIR KILLER TIPS ON GETTING THE MOST FROM SELECTION TOOLS

**■ HOW TO CREATE ARCH-VIS** FlyingArchitecture Studio on how they mix 3D and Photoshop







JOHN ROSS

ROLF A. JENSEN



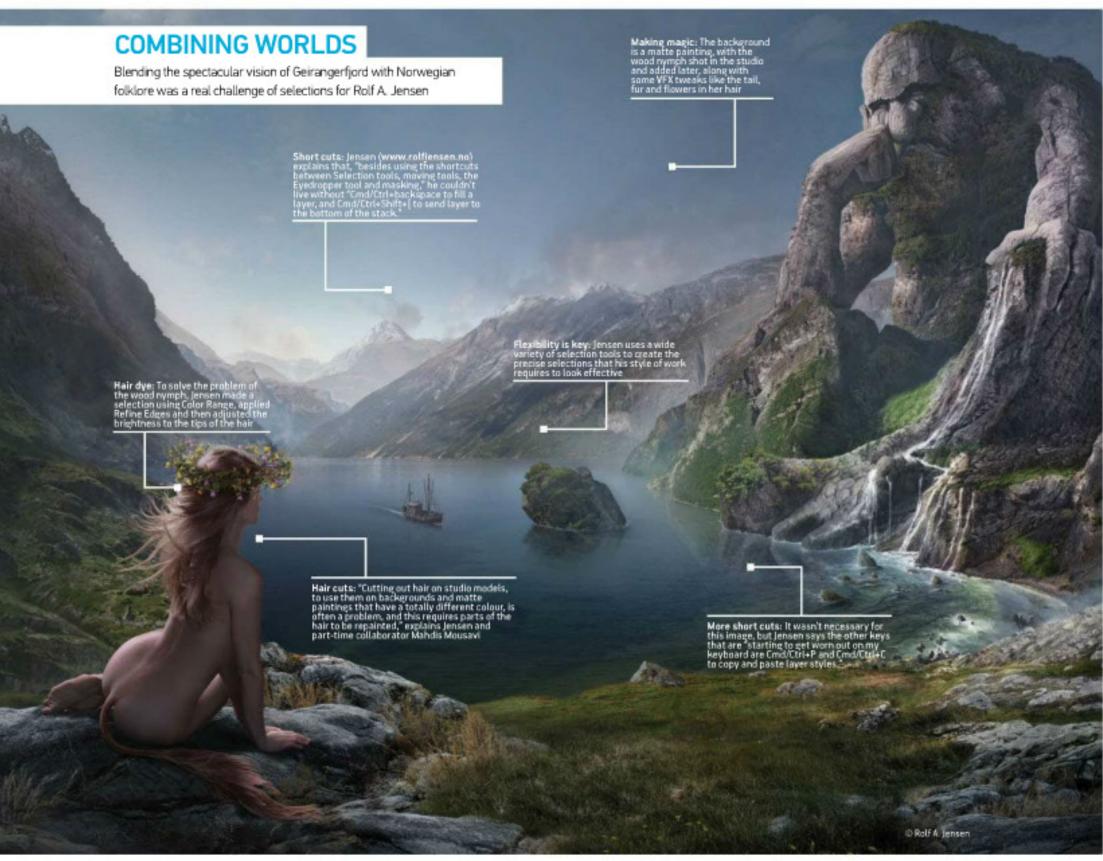
**MILTON MENEZES** 







# **TECHNIQUES I PROFESSIONAL TIPS FOR SELECTIONS**



### TARGET YOUR SELECTIONS

How you make selections depends on what sort of work you are doing. John Ross (www.

theartofretouching.com) often has shots with similar lighting or locations to work on, and having a standard approach to how he tackles them speeds things up. "Every image that crosses my desk uses Select>Color Range for general selecting," he explains, "and Select>Edit in Quick Mask for selections. When I have larger areas of common colour, I will use Color Range to make selections easy, although not perfect. I can then go into Quick Mask to fine tune the areas I want to include or exclude. The other way I create manual selections is

to go [straight] into Quick Mask. By using a small. brush, I will trace along the perimeter of the areas that I want. I can then fill in the interior with the Paint Bucket, Magic Wand and Edit>Fill, or just paint with the brush. When I exit Quick Mask, I have a manually created selection that I can apply to my adjustment layers as a Layer Mask. When we remove the creative elements using Photoshop, [it's all about] refinement. I have two basic ways to make any of my repetition - I will use Curves and Selective Color over and over again. The difference in using each tool is being able to target specific elements by using selections. This makes the results of the repeated adjustment layers [noticeably] different each time they are applied."





### THE HOLY GRAIL OF HAIR

For Milton Menezes, director of Brazil's Lightfarm Studios, Paths are the best option for general selection requirements. "Depending on resolution, I can also use [the] Lasso tool or even [the] Magic Wand - whatever looks good for the size [that] you need. [However], let's talk about what really matters - hair! If you know how to clear-cut flying hair out of a messy background, then you know everything about selections. For hair selection – the nightmare [for] Photoshop users - I mainly have three methods to clear-cut: Channels or Calculations for the main selection, brush strokes on a Quick Mask or a layer for tiny hair and fur, and Path strokes to get those

long hair lines that are too hard to get from brush strokes. I had issues with this mermaid image [called] Harmful Nature. As we shot underwater, the hair had motion blur and too much noise to use a simple Channel selection or blend modes. So I mixed three techniques I love to work with - there is no easy way [to do it]. Hair is hard, it takes time and patience, although there are shorter or more effective ways of doing it. You'll need to go step by step. Think big to small. You won't get everything at once. Get the head, main hair mass, a little brush stroking hair and path strokes with simulating pressure for precise selection with thick hair and smooth tiny endings."



#### DISCOVER FOCUS AREA IN CC

"We mostly use selections while working with matte words, if we have an image where we need to paintings and photo retouching," explain Rolf A. isolate a person or subject from the background, Jensen and Mahdis Mousavi. "A new and interesting and that person or subject happens to be in focus selection tool that caught our eye recently is Focus Area, a new tool in Photoshop CC (it's a part of the 2014 Creative Cloud updates).

based on the in-focus area of an image. In other

inside the depth of field while the background is out of focus or blurry; Photoshop can now analyse the image, figure out what's in focus and what's "With Focus Area, we can now make selections not, and make a selection of just the area that we need [to use]."

## SCANNED SELECTIONS

ANDY POTTS EXPLAINS HIS METHOD FOR DEALING WITH SCANNED-IN HAND DRAWINGS



01 LEVEL THINGS UP andy-potts.com) likes to use plenty of sketching n his digital work. Once he has scanned in his mage, the first step is to "use Levels to boost the contrast of the scanned in drawing so [that]



02 | FEEL FUZZY
"Use Select/Color Range, and set the Fuzziness to 200 to select the apposite colour to the one you need. Inverse the selection to select the black - this way you pick up more of the fine edges, Use Cmd/Ctrl+J to cut the black line selection on to a new layer above."



U3 | "Fill the scanned black line with 100%. black to make it more solid. You can now fill the hand by using the Magic Wand to select outside the line and then invert that selection to have a

hand-shaped space to fill with colour."

#### UPDATE YOUR WORKFLOW

"During college I enjoyed traditional airbrushing," says John Ross. "[My] use of frisket masking was frequent and became second nature. My first job, and many after, was in pre-press working with film. Early on, I was being shown how to paint with a brush onto the film to stop the light, and [how to] scratch it away to let the light through when we burned the plates for the presses. The basic principal in both situations was the same. When it came to Photoshop, the defaults tried to mimic what was happening in the darkroom, but this always led to confusion in the digital medium. Somewhere between the darkroom and the computer screen, it stopped working as well

as it once did. This just took me back to simple tools like the Magic Wand and the Lasso" - tools that Ross still uses today. After all just because something is simple, doesn't mean it's not the best tool for the job.

However, "by default," says Ross, "Photoshop tries to match how things were done in the darkroom, [and] this often leads to confusion. By using a more updated workflow, you may find that your masks and selections greatly increase in their simplicity and accuracy." Therefore the lesson is to think for yourself, not to use tools or methods because they're the expected ones, but to pick the ways and means that are right for you and your work.

## **SELECTION IN PRACTICE**

In this image Milton Menezes (Lightfarm Studios) had to contend with the fact that the model had been shot underwater. This meant that there was too much movement and motion blur for a

simple Channel selection. Here you can see the work he did with brushes and the Path Selection, painstakingly teasing each strand of hair out of the water that surrounds it.

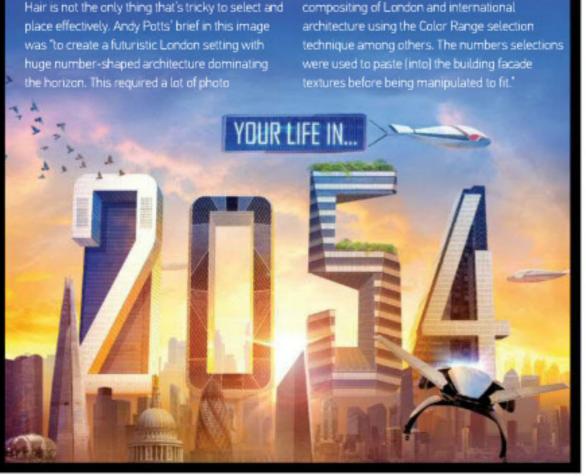




On Hunger White, Menezes also had the challenge of hair. He used Path Selection to pick out the model and you can see here the work done to pick each strand out. Once the model is composited into the background - and with the addition of a mouse on her shoulder - the effect is impressive. Note the strands of hair around her face, and the light on her shoulders.



In this cover illustration for BBC Focus on 'How to Travel Faster Than Light', Potts had to take care to pick out subtle edged light selections from photographs to layer up." While realism isn't the goal, everything needs to fit and sit perfectly, and it can't do that unless the elements are perfectly selected and out out. Here he used Color Range again, because it's "one of the best methods to pick out a soft edged image with accuracy and not have grainy pixillated edges."



#### FIND THE RIGHT CHANNEL

"Calculations are great for a more complex Channel selection," says Milton Menezes. "Instead of getting the information you need out of one RGB channel only, you can mix or intersect the selection from two channels. Let's say the best channels to clear-cut are green and blue for your specific selection. By mostly

using Add or Difference and then playing with the settings, you might be able to get a better selection than (if you used just) one Channel."

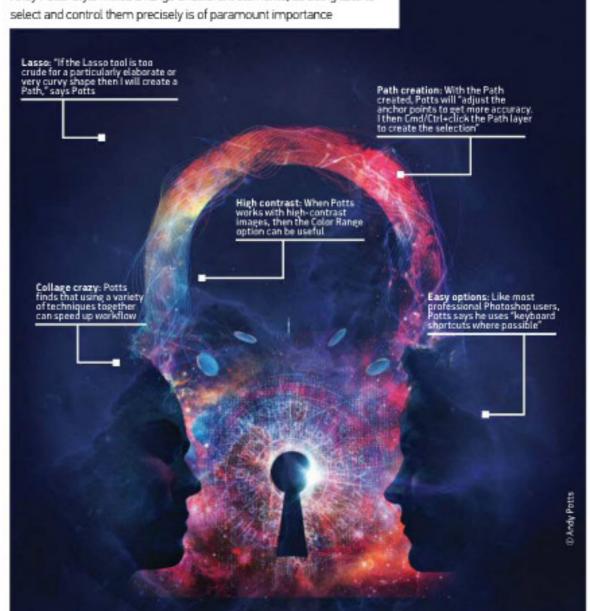
Depending on your image and what you want to select from it, blend modes are another good option. \*Blend modes are the standard and helpful way to

easily get clear-cuts without having to actually cut anything," explains Menezes. "Depending on the background you can use Screen or Multiply to get really fast selections with good results. By using Curves and Hue/Saturation you can balance the selection according to the background."



## **PULL IT APART**

Andy Potts' style mixes a range of different elements, so being able to select and control them precisely is of paramount importance



# QUICK FIXES OR THE PEN TOOL?

To make a section with absolute precision, Jensen and Mousavi reach for the Quick Selection tool. "The Quick Selection tool was first introduced in Photoshop CS3. It quickly became a favourite, thanks to its combination of the Magic Wand and [how easy the paintbrush is to use]. This tool is unlike other selection tools, [as] it selects not just colours but also textures. However, if you really need to select an object that is merged with a detailed background, the Pen tool is still the best way to go. Combining that with Refine Edges to make the cut-out smooth is always best." Should they need to brush out water or something soft, then they'll often use the "Quick Mask (Q) and just paint it out quickly with (a) tablet, but it really comes down to what the landscape in the original photography looks like and how it should be handled."



## ■ TECHNIQUES | PROFESSIONAL TIPS FOR SELECTIONS

### HAIR TODAY, GONE TOMORROW

"For images that contain hair," says David Padilla (http://davidpadillablog.es), "one easy [way] to cut is using the Refine Edge tool. Use the Quick Selection tool to select all the hair you want to cut, (it) doesn't matter if you let part of the hair out of the selection. The next step is to use Refine Edge in order to add the parts of the hair you didn't select, and using the Refine Radius tool and Smart Radius, you [can] paint the hair areas [that] you are interested in."

You can also use the Refine Edge tool after cutting

a selection out with the Pen tool, which Padilla thinks is the "most efficient" method to follow. "I would advise (using) the Refine Edge tool after the selection with the Pen tool is made, [so that you achieve an accurate finish). Parameters like Smooth are very useful to [neaten] the final workmanship. [The] Lasso tool and Magnetic Lasso tool are helpful when [making] a quick selection, but they are not [as] precise as the [Refine Edge or Pen tools]. [I also use] the Rectangular Marquee tool for selecting part of the elements [that] I want to move."



# NATURAL SELECTIONS

"As [many] of the colour or tonal changes I make are subtle," says retoucher John Ross, "loose masks are fine using (the) Quick Mask and a soft brush - Photoshop can be very forgiving. For studio portraits shot against white or grey, I can easily replace the background with whatever (colour) I want. With Color Range and Quick Mask, I can make fast but accurate silhouettes around the subject. Sometimes I will replace with solid white, [whereas] other times it could be a standard backdrop across a group of images. [I usually face problems] during natural settings - [when] the background's exposure is shifting the wrong way for when the person is extracted completely and the background is replaced]. For skin and clothing, a tight mask using a small brush with Quick Mask is the most accurate [method]. When it comes to natural selection of the hair, nothing is easy. I will do as much as I can with Quick Mask, but will often use Refine Mask to try and ease the transitions."





# QUICK MASK AND COLOR RANGE

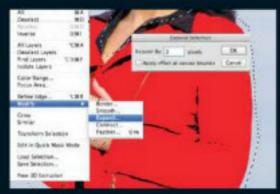
JOHN ROSS EXPLAINS HOW HE CREATES ACCURATE MASKS AND SELECTIONS



CHANGE THE BASIC SETTINGS \*Double-click on the Quick Mask icon below the colours in the Tools palette. This will open up the Quick Mask preferences. Change Color Indicates to Selected Areas and the Opacity to 100%. When you click OK, you will be brought into the Quick Mask mode. Push the Quick Mask icon one more time to return to normal Photoshop."



02 | LIMIT THE SELECTABLE AREA From the top menu, select Edit>Color Range and change the settings to Sampled Colors, [the] Fuzziness to 40 and select a preview of Quick Mask. When you push OK, you will have your mask turned into a selection. To further target a specific area, start by using the Lasso [tool] to make a loose selection and then Color Range to create the mask. This will limit the selectable area, allowing for more targeted final selections."



13 After making a selection w "After making a selection with Color Range, [select] Edit>Expand 4 and then Edit>Feather 4 [to] fill in smaller pinholes and soften the hard edges. Push the Quick Mask icon and manually edit the mask using the Paint Brush tool. Black will add to the mask and white will remove from it. Finish by pushing the Quick Mask icon once again, and you can apply your mask to [your] adjustment layer of choice."



#### **BACK TO THE LASSO**

"Selections are essential to the creative process in Photoshop," says Andy Potts. "My style relies on collaging from various photographs, so I need to be able to select what I need quickly and effectively. My first port of call is usually the Lasso tool. I use a mouse rather than a Wacom to select shapes using the Opt/Alt+click method, [which I find the] easiest way. I also use Paths to create smoother lines where lots of curves are involved. Another method I employ regularly is Color Range, to select a particular colour or tone from a monochrome image. The Magic Wand is (also) perfect for selecting larger areas of block colour. I'll [often] use a combination of techniques to speed up [my] workflow. If the Magic Wand can wipe out a lot of background quickly, then I'll use that before going in to [more detail] with the Lasso tool."







#### RE-USE YOUR SELECTIONS

Most Photoshop pros stress the benefits of the Pen tool above all others. It is hard to get to grips with using, but you can create beautiful curves, you have complete control, and it's totally editable. However, surely the best bit is that you can save your selections as Paths, even in flattened files.

A little like Mac versus PC, the anti-Pen tool tribe are utterly mystified by the devotion of Pen tool fans. They would claim that using a vector tool in a raster file has decided disadvantages and that you end with hazing and lack of control around the edges. Of course, the pro-Pen tool group would say you can simply clean that up if you need to and that being able

to save selections – even in a flattened file – trumps everything. It means that designs can be shared in compact JPEGS – which is helpful in something like product design, where lots of people need to work on similar images. It also means that if you create a Path in a low-res version of an image (perhaps for the web) and later have to make the same selection in a high-res version, then the work is already done for you. You can simply scale up your selection, make any edits that you need to and your job is done – vector to the rescue. So if there is a chance that you might need to re-use your selections, then the Pen tool to Path option is probably for you.



### **CHOOSE YOUR WEAPON**

Like most Photoshop experts, Andy Potts uses the full range of selection options, and knowing which tool to reach for in any given circumstance is something that comes with experience. This image, American Werewolf in London, was Andy Potts' entry for last year's Serco Prize for Illustration. The theme was London Stories, so he decided to work up a piece inspired by one of his favourite films, An American Werewolf in London. "This was a combination of drawn and photo-sourced imagery which used all of my selection tricks," says Potts, who used the Magic Wand tool to select the iconic red London bus. The Magic Wand used to be the tool that marked you out as a amateur, but recent improvements - most notably Refine Edges - have given it much more power. Potts says, "To select dominant colours in a photo, such as the red in the London bus, I'll sometimes use the Magic Wand for speed and then Modify/Grow the selection to pick out any extra pixels."

#### COLOUR ME SIMPLE

"Sometimes there is a colour in multiple areas at the same time, like green trees and grass," explains John Ross. \*If I only want one of them, I will use the Lasso Tool to make a very loose selection around the area [that] I want to keep. Then I can use Color Range to refine the target selection. Basically, the Lasso limits the Color Range's selectable areas. After using Color Range, the edges can be a bit jagged, [may] not reach the edges completely, or it may even leave little pinholes. (So) to get around these problems, I created a simple Action that applies Select>Modify>Expand of 4 pixels and then Select>Modify>Feather of 4 pixels, which I then attached to an F-key. This will make the selection a little bigger and a little softer. It [is] not usually noticeable, but [it] corrects minor imperfections that Color Range often leaves behind."





### **INVENT YOUR OWN**

If your selection needs are mounting and you want to make more edits in less time, then it's no good relying on the existing tools and the shortcuts that Photoshop already contains. Instead, you'll need to start coming up with more personalised ways of approaching things, especially for those jobs you're going to find yourself doing again and again. Milton Menezes explains that "Cmd/Ctrl+Enter is useful to get a selection out of a path and Cmd/Ctrl+Opt/Alt+Key is great when you want to apply the same adjustment to a layer. For example, press Cmd/Ctrl+Opt/Alt+M to use the same curves again on a different layer, or Cmd/Ctrl+Shift+F to fade adjustments. I also like to set shortcuts for contrast,

add expand and feather to selections which helps to speed up workflow, and I always use Cmd/Ctrl+S – Photoshop is not 100% reliable."

However, he is determined to go further than just personalising Photoshop and has been working to find his own approach to selection that will give him both accuracy and speed. "Searching for a way to clear cut with [great] precision," Menezes says he's started using Path Selection in a more detailed way, "by using brush settings and simulating pressure out of the stroke path. It's not as slow as brush stroke selection would lead you to believe and it's 100 percent editable and [as] precise as you would expect."