

CS 2033

Multimedia and Communications

Lab 02: Working with Photoshop (Graphics part 1 of 2)

REMEMBER TO BRING YOUR MEMORY STICK TO EVERY LAB!

LAB #3 - Exercise 1

Objectives:

- Make a clipping mask from type (text)
- Distribute text along the path of a shape
- Distribute text along a path that you draw.

Before starting this lab, make sure to copy the folder “lab02” from <http://www.csd.uwo.ca/courses/CS2033/labs/lab02> to your memory stick. Remember from Lab 1 that your memory stick is most likely labelled as the F: drive on the computer. After you do this, the folder “cs2033” on your memory stick should contain two folders: lab01 and lab02.

You are about to create a magazine cover for Healthy Living

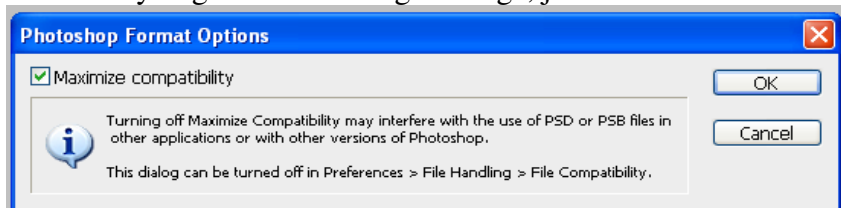
1. Start Photoshop CS6.

From the **Menu Bar** at the top, click **File > Open**, then navigate to **F:\cs2033\lab02**. From the Dialog box that pops up, **select “exercise1.psd”**. It has 3 layers: lady, sunset and Background.



2. From the **Menu Bar**, select **File>Save As**. Save the file in the folder called “lab02” on your memory stick, so it will be saved in the folder **F:\cs2033\lab02**. Name the file “**exercise1_complete.psd**”, and make sure the format is set to Photoshop. This saves the file in Photoshop’s **native format** so that layering is retained, allowing you to modify it easily later on. During our tutorials, we will *always* first save the file that we are working to a different name than the source file, so we don’t overwrite the original!

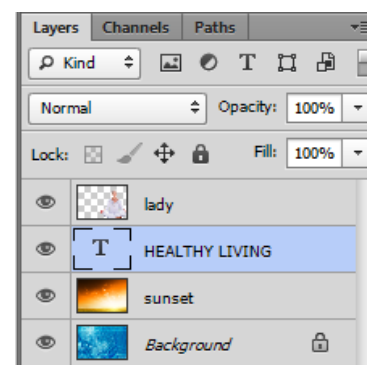
- NOTE: if you get the following message, just hit OK:



3. Create a Clipping Mask from Type (text)

A **clipping mask** is an object or group of objects whose shape masks other artwork so that only areas that lie within the clipping mask are visible. In other words, you are clipping the artwork to conform to the shape of the shape of the object (or mask). You can create clipping masks from shapes for letters.

- First of all, zoom in on the image at 100% so that you can see the details better as you perform the next steps.
- Make the layer Background hide by clicking on the eye icon in the layer palette. And so the only two layers visible are “lady” and “sunset”. Make the layer “lady” active.



- c) You are going to add a title to the poster “Healthy Living”. From the toolbar palette, click on the Horizontal Type tool (T). From the Options bar and set:

Font Type =Arial Rounded Bold

Font Size = 100 pt

Font Alias = Sharp

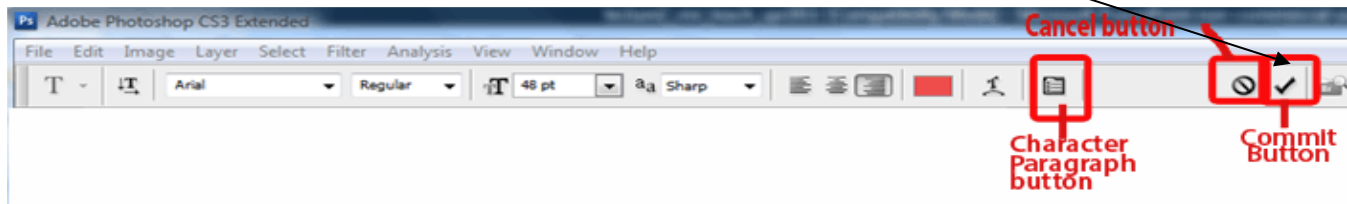
Text color= White



Start typing : **Healthy Living** and click on the Commit button (the GIANT CHECKMARK) to end typing mode.

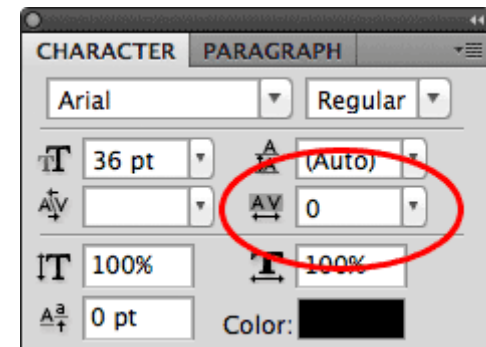
Use the Move tool to move the title into view if necessary.

And make sure the layers are positioned as shown above.



Next edit the text **Healthy Living**, and adjust the tracking (the spacing between characters if you want). To do this go back into edit mode on the text **Healthy Living**. Hilight the text “Healthy Living” and from the option bar, click on the Character and Paragraph button. (see illustration above).

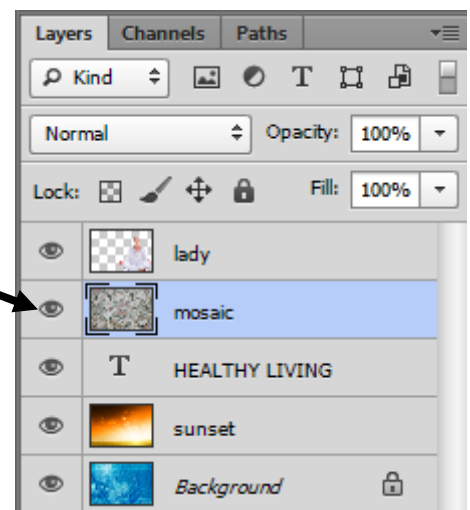
A popup panel will appear as shown to the right. To change the spacing of the characters, mouse over the slider and click and drag in either direction. In doing so notice how the characters come closer together or farther apart. To adjust the tracking you can also, use the dropdown arrow and select one of the options. When happy with the character spacing, click on the Commit Button.



Making a clipping mask and applying a shadow

At this point you have white colored text “Healthy Living”. To change this white color to be filled with an image of mosaic, you will use the letters to make a clipping mask and thus allow another image layer (mosaic.jpg) to show through.

- d) **Open the file “mosaic.jpg”**. Select the Move Tool and click on the mosaic image and then drag it to the file “exercise1_complete.psd” (You learned in CS1033 how to move things from one file to another). Once you successfully moved it over, close the mosaic.jpg file.
- e) In the file “exercise1_complete.psd, name the mosaic image layer as “mosaic”. Next, reposition your layers as shown. Notice the layer “mosaic” is above the text “Healthy Living”. It must be this way for the clipping mask to work.




- f) You have three options right now: (1) Leave the mosaic image as is covering the entire image window or (2) Resize the image of the mosaic (but this will make the mosaic pebbles smaller) to approximately the same width and height of the text Healthy Living. (3) Dragging the mosaic up until it covers the top 1/3 of the poster.
- g) For now, just drag the mosaic up as shown in the picture. To do this, click on the layer “mosaic”. Get the Move tool and drag the mosaic up until you see it as this:

When working with clipping masks, the objective is to get the background to cover the part of the shape/text you want so the background can come through.



- h) Right-click on this layer and select “Create Clipping Mask”. The layer shows a little down arrow to show that it is a clip. See how the mosaic comes through on the letters. If we had resized the mosaic before making a clipping mask, the pebbles would have been showing through. If you place your cursor in the words Healthy Living, and drag, you can shift the mosaic.

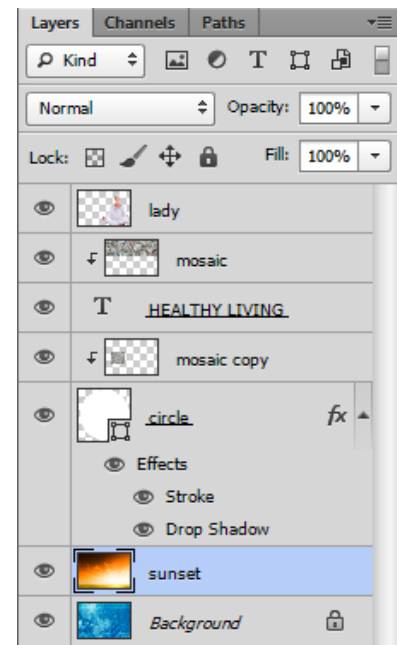


- i) Next let's add a circle shape to the poster, and turn this into a clipping mask so that the mosaic will appear through. **Start with clicking on the layer sunset. Add a new layer** (we are going to draw a circle but it needs its own layer) by clicking at the bottom of the Layer palette, the “Create a New Layer” icon  and label it “circle”. Draw a circle on this layer by using the Shapes Tool and select the Ellipse tool. To draw a perfect circle, hold down the shift key while drawing the circle. Don't worry about the color of the circle since we will be using a clip mask to allow the mosaic to bleed through.

- j) Click on the mosaic layer and to duplicate it and call it “mosaic copy”. Drag the “mosaic copy” layer above the circle layer. Notice the clip arrow got removed on this “mosaic copy” layer. But notice how the mosaic is NOT COVERING THE CIRCLE SHAPE. So you will need to drag that mosaic from this layer over the circle using the Move tool and shift it down beyond the words Healthy Living. Resize the mosaic so that it is about the same size as the circle but covering it. To do this..make sure you are still on the “mosaic copy” layer, select the Move tool, and in the Options Bar, check the “Show Transform controls”. This puts drag handles around the mosaic and now you can resize it.



right-click



- k) Next, while on the layer “mosaic copy”, right-click on this layer and select “Create Clipping Mask”. The end result is below. Add a stroke and dropshadow on the circle layer for some depth.



TIP:

You could have used another background for the circle by using another design (instead of mosaic) and placing it above the circle layer and making sure it covers the circle. The whole success with this is making sure the clipping mask is placed above the text or shape layer.

You can also merge the two layers circle and the text into one layer, and then put the clipping mask.

- l) Save your file as myposter.jpg. and move onto next exercise.

LAB #2 - Exercise 2

Objectives:

➤ Creating a Type Path

You are adding text or type that follows along a path you create with a pen or shape tool.

In this exercise you will be adding a Type Path that will follow a path.

1. Make sure that you have closed all files from the previous exercise.

Open the **file exercise2.psd**. This ensures that you are starting at the correct starting point.

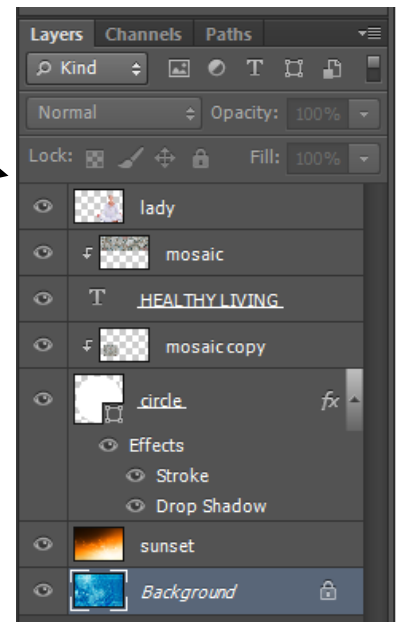
Now **save the file as exercise2_complete.psd**.

2. To create a path following a shape and add text to it. Having text follow a shape is the easiest technique.

a) In the Layer panel, you will see the layers:

b) Make sure you are viewing the image at 100%.

Click on layer “lady” and add a new layer called “circle with words”. You want to keep shapes on their own layers so that if you change your mind, it is easy to delete them.



c) Select the Ellipse tool, and draw a circle to cover the existing mosaic circle so that the text can wrap around it. (But you can draw any other shape and put it anywhere on the poster and continue on with the next steps). To keep a perfect circle, click down on the Shift key and drag to draw the circle. Cover as close as possible to the existing mosaic circle. This circle will cover the mosaic circle only because of its positioning in the layer palette.

d) Make sure that you are on the layer “circle with words”. Select from the Tool palette, the Type



Tool

From the Options Bar, set:

Font Type: Myriad Pro


Font Style: Regular (if you select Bold you won't be able to put an independent FX on it later in step (g))


Brush Size: 30 pt

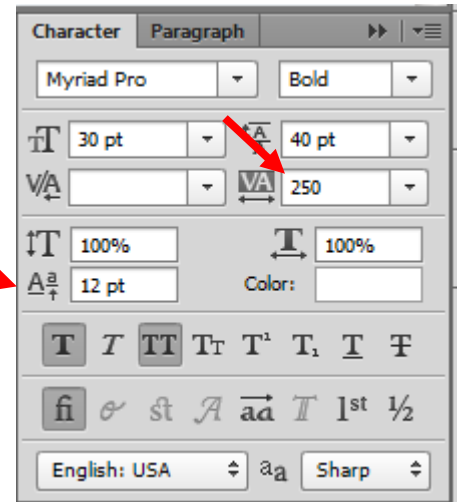
Sharp, Left aligned, color white

Position your cursor on the circle at the 12:00 position BUT THE CURSOR MUST look an I-beam with a wiggle slant



through it.  in order for the text to be drawn on the circle path shape. **Type the words “EAT PRAY LOVE”**. These are probably not enough words to go around the entire circle, but that’s okay for now.

Your text may need some adjustment as to where it is sitting around the circle so highlight the words “EAT PRAY LOVE”, and click on the Character palette . Change the values for kerning of the letters (try 250 to go half way around the circle; and set to 12 to adjust the distance the letters are from the circle’s edge. And click the Commit button in the Options bar to end the typing mode.



- e) Next hide the layer “Circle with words” to hide the circle (which control the path the text follows”. So now you are left with the mosaic circle.
- f) To rotate the words around starting at 9:00 position, click on the layer “eat pray love”, and from the menu select Edit> Free Transform. A box appears with drag handles. Rotate this around until the words appear on top half of the circle.
- g) Next apply to the layer “Eat Pray Love” a stroke on the words with a light color burgundy and a diameter of 3. You can play around with this.

- h) **Save the file as exercise2_complete_parta.psd.**
And close all files.



3. Drawing paths and having text follow the path.

- a) Open up the file exercise2_partb.psd
Save it as exercise2_partb_complete.psd
- b) The first thing you have to master is how to draw a path before you can even have text follow it.

Create a new layer above the “Eat Pray Love” layer and call it “path”. Now always make sure to stay on the layer before starting to draw the path out with the Pen tool. If you make a mess of this layer, then delete it, and recreate a new layer again.

c) **Select the Pen tool.**




IMPORTANT INSTRUCTIONS: Click in the poster in the empty space above the mosaic ball. This is where your path will begin.

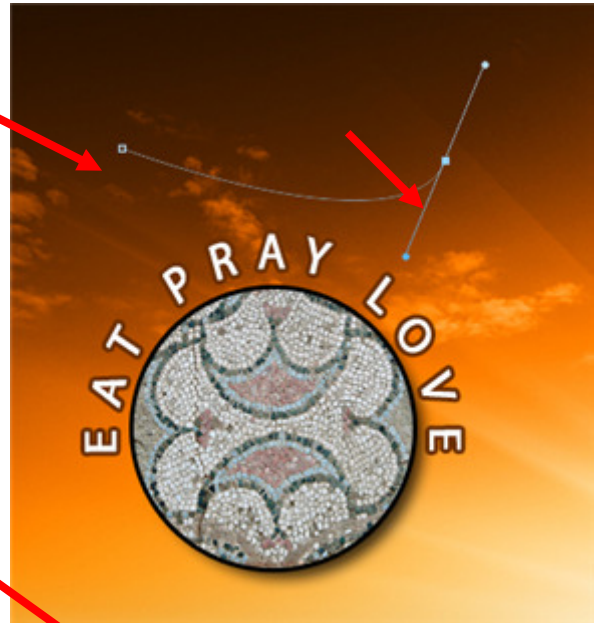
To continue to draw the path, move your cursor over to the next spot and click and **HOLD DOWN** and move the cursor up/down or in any direction until you like the curve you just made, and release the mouse. Note: Longer distances between clicks results in longer deep curves, whereas closer distances result in shallow curves.

Next move over to just above the shoulder and click and **HOLD DOWN** and move the cursor up/down or in any direction until you like the curve. Continue this above step and play around with making a path as you like. End up with what is in this diagram.

Once you have got your path, create a new layer above layer “path” and callit “ text on path”.

To place text on this path, click on the Type Tool from the Tool palette, and move your cursor to this point on the line until you see the I-beam with the squiggly line then you can start typing (the path will disappear but keep typing). Type “Healthy Living + Exercise + Nutrition + Meditation”. You will probably see that at some point you will type and won’t see the letters because there is no more room on the path. So we need to drag the text over to the beginning of the line.

To do this, select the Path Selection tool  from the Toolbar palette. Then move the cursor to the beginning of the line where the text begins. You will see the Ibeam but if you place it on the path line this Ibeam will have a little triangle beside it. When you see this triangle, click and hold down and drag along the path line to pull the text along the path in the direction (to left for this example), and then release the mouse. You should end up with the side image.

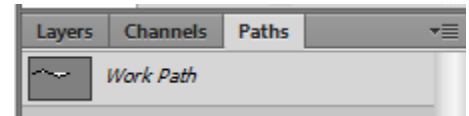


To hide the thin gray line, simply press the ESC key.

Before moving on... **save your file again as exercise2_partb_complete.psd just in case you need to come back to this point.**

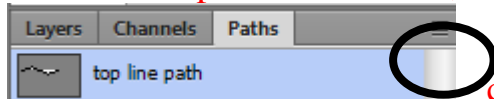
Editing an existing path to change it.

- d) To edit the path you created above. Click on the Paths tab located beside the Layers and Channels tab. (if you don't see, select Windows>Paths). You will see a layer called Work Path – so click on this path to make it active. You will now see the path under the text.




TIP: Photoshop keeps an unsaved work path in your document even if you close the file and open it another day. The catch is you can only have 1 unsaved work path in a document at a time. So if you wanted to create two or three different paths, you need to save them.

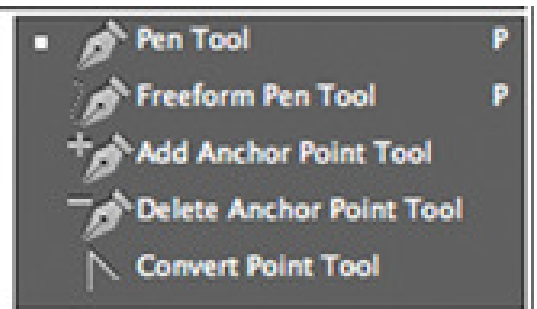
To save this path for later use, from the corner of the path panel,



click down on the drop arrow and select Save Path and give it a name such as “top line path”.

If you want to edit this path, simply activate “top line path” in the Paths panel and select from the Toolbar palette, the the Path Selection tool  and click on the path line.

Now you can either: select from menu Edit >Free Transform path and then work with the box. Try it and then cancel the operation. Or the second method is to use any of the Pen tools:




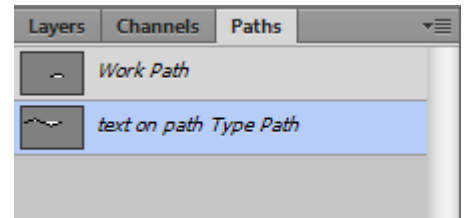
Use:

Pen Tool if you are to add another free path and follow the instructions as step 3(c) above.


So let's try adding another path. BUT FIRST GO TO THE LAYER PALLETTE AND add another layer above “text on path” and call it “second path”. Click on this layer. And now use steps 3(c) above to draw a new path. Draw a simple arc. And then add another layer called “text on second path”. Use the Type tool and add the words “Secret to Life”. You will have to check with the commands above... but you should end up with something as the image to the right.



Now from the Layers palette, click on any of the layers that have “text on second path” or “text on path”. Then click on the Paths tab, and you will find that you have two paths. The “text on path Type Path” belongs to the first path we created. The last one with the words “Secret to Life is associated with the “Work Path”. To modify either of these two paths, click on path layer and you will find the thin gray line appears under the path tool. If not, you can also from the Toolbar select the the Path Selection tool  and click on the path.



Select the path “text on path Type path” and use the Add

Anchor Point Tool .

Click on the path to add another anchor...if you click on the square and drag in any direction (for example down) then the path changes and when you release the text adheres to this revised path change you just made. (it doesn't look great but you get the idea of how to modify a path.



Now Undo this operation to return the path to way it was before this step. Save the file again as exercise2_partb_complete.psd.

Experiment on your own with the Convert point tool... Remember use the Path Selection tool and click on the path to see all the anchors for this path. Use your convert point tool and point to an anchor and click. And then drag in a direction to see the curve form in whatever direction you want. Undo this last operation.

At this point, just save your poster, it doesn't matter what it looks like. If you need more practice, go through this later on your own time.

This ends the section on drawing paths and adding text to it.

Save the file as exercise2_partb_complete.psd

LAB #2 - Exercise 3

Objectives:

- Photo Correction Techniques
- Using the Clone Stamp to add more objects or to remove objects
- Use Spot Healing Brush to remove objects (used for smaller objects)

1. **Open the file exercise3a.jpg. Save it as exercise3a_complete.jpg.**

2. **Use Clone Stamp to add another rhino into the picture**

a) As a refresher, when opening a .gif or .jpg file always make sure that the mode is RGB rather than indexed. To check, from the menu, select Image> Mode and there should be a checkmark beside RGB value.

b) To duplicate the rhino, select the Clone Stamp  from the Toolbar palette.

c) In the Options bar, set the brush size to 6 and the hardness to 0%. Then make sure the Aligned button is selected.



d) Move the Clone Stamp tool over the smaller rhino's body. **Hold down the Alt key and left-click** (pointer appears as a target cross-hairs) to indicate the beginning of what it will clone. It tells Photoshop to sample from that part of the image. (I would target the bottom of the baby rhino's feet).

e) Next move over to the bottom part of the picture and drag the Clone Stamp **OUTLINING THE RHINO'S BODY**. The clone overlay lets you see what will appear there. As you drag, keep your eye on the baby rhino as it begins to clone from this rhino... keep dragging until you carefully have completely cloned another rhino into the picture. After doing the outline of the rhino, switch your brush size to 16 (or larger) and drag the Clone Stamp filling the inside of the new baby rhino addition. If you need to adjust any areas... you can reclone those areas by repeating steps 2(d) and (e). **YOU HALF CLONED A RHINO INTO THE PICTURE.**



Once done cloning, click on the Move tool (it is the safe tool so that nothing else gets drawn).

f) **Save it as exercise3a_complete.jpg.**

3. **Use Clone Stamp Tool to remove a boulder in the water.**

a) Save the file as **exercise3b_complete.jpg**. Make sure that you are on the layer "rhinos". You will be removing the boulder in the upper left corner.

b) Repeat the steps above steps 2(b) to (f). This time you will be sampling (hitting Alt-Click) from the water beside the upper bolder in the left side of the picture. This is easier since the water effect doesn't really matter how it looks once the boulder is




removed.

Once done, save the file as **exercise3b_complete.psd**.

4. **Use Spot Healing Brush Tool to clean up small spots on the rhino's back.**

The Spot Healing Brush removes blemishes and other imperfections from photos. It paints with sampled pixels from an image or pattern and matches the texture, lighting, transparency, and shading of the sampled pixels to the pixels being healed.



- Save the file as **exercise3c_complete.jpg**. Make sure that you are on the layer "rhinos". You will be removing the pink spot on the big rhino's back
- From the Tools panel, select the Spot Healing Brush.  (it is the bandaid with a spot on it).
- In the Options bar, open the Brush pop-up panel, and specify a 100% hard brush that is about the diameter to cover the pink spot. (try 39 diameter).
- In the image window, with the Spot Healing brush, click on the pink spot on the rhino's back. Each time you click it removes the pink spot. If you need more accuracy try a smaller brush size or use a drag motion across that area where the pink spot was. Try it! Voila the skin spot is healed!
- The Healing Brush tool works exactly the same way as the Spot Healing Brush only it works on larger areas to remove. You can try it if you want.**
- Save the file as **exercise3c_complete.jpg**.

5. **Use Content – Aware Patch to fill any selection with content similar to the content around it. An alternative to the Clone Stamp tool.**

We are about to erase from the beach scene the picture of the man jogging on the beach.

- Open the file jogging.jpg and save it as exercise3d_complete.jpg.** There are two people jogging on the beach. We want to remove the man from the picture altogether. So first from the Tools panel, select the Patch tool hidden beneath the Spot Healing Brush tool.
- In the Options bar, choose Content-Aware from the Patch menu. Then make sure Medium is selected in the Adaptation menu, and that Sample All Layers is selected.
- Drag the Patch tool around the jogging man to select him.
- Next, click inside the area you selected and drag it to the right side.** The selection changes to match the area around



it. Keep dragging until you see beyond the girl. Match up the water horizon levels. Then release the mouse to make the man disappear and be replaced with the beach background. From the menu choose **Select>Deselect** to get rid of the dotted lines.

- e) Try it! Voila the man is removed!
- f) Save the file as **exercise3d_complete.jpg**.

6. Use Clone Stamp tool using two documents

The Clone stamp is great for tricks like banishing shiny spots or giving someone a third eye, but you can also use it for copying bits and pieces of an image from one open document to another.

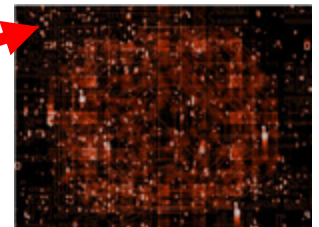
- a) **Open the file redtexture.jpg.**
Open the file businesspeople.jpg and save it as **exercise3e_complete.jpg**. We are going to take the pattern from the file money.jpg and copy it into the silhouettes of the people. You are going to use the Clone Stamp to do this.



- b) **Click on the file businesspeople.jpg.**
Add a new layer above the background layer and call it “pattern”. You want to have it on a separate layer in case you want to easily delete it or add other special effects on it like a dropshadow, or stroke etc.

Click on the Background layer. Click on the selection tool “Magic Wand” from the Toolbar palette (you could have used another selection tool but this works best), and click on the far left silhouette. Then hold down the Shift key and click on each of the other black silhouettes in the picture. All the black silhouettes should have dotted lines around them.

- c) Next **click on the file redtexture.jpg**. Select the **Clone Stamp tool** and use a brush diameter of about 60. Then **Alt-click** on the top left side of the picture to indicate the starting point for when cloning.



- d) **Click on the file businesspeople.jpg** and activate the layer “pattern” and with the Clone Stamp tool go over the selected silhouette areas using a dragging motion. (start with the left silhouette which has a dotted outline since your starting point in the redtexture.jpg file was also on the left side). I did not drag over the floor silhouette of each person within the selection just so that the floor shadow would be realistic. silhouettes are texturized with a pattern. You can use this technique with painting any object in an image with the Cloning Stamp.



TIP: If you find any of the silhouettes needs a different area of the texture pattern then go back to the redtexture.jpg file and Alt-Click at the pattern you like to use as a sample and starting point. Then go back to the silhouettes and drag over them. You could have several files with patterns and be selective with the Cloning Stamp.

- e) **Save the file as exercise3e_complete.jpg.**

7. Combining Images: Cut it out and Paste it Im!

Starting with a picture frame and insert seamlessly another picture into it. Forget erasing!

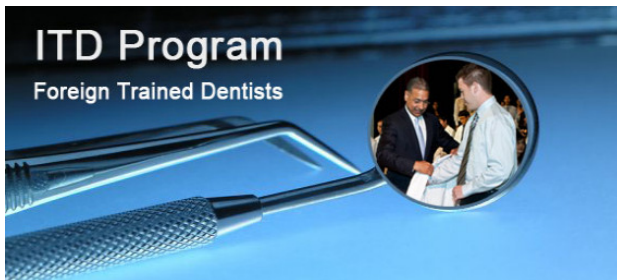
- a) **Open the file postcard.jpg. Open the file dogs.jpg**
- b) You will work with postcard.jpg first.
None of the rest of the instructions will work until you take the background layer and make it a layer. So right-click on the Background layer and select “Layer from background” and call it anything you want.. we’ll call it pictureframe.



Next use a selection tool, recommend the Quick Selection, and use it to select the white interior of the postcard. You will see the dotted outline. (Optional: You may want to consider clicking on Refine Edge from the Options Bar to soften the selection’s edges slightly... set smooth =1 or 2; feather it by 0.5 to 1 pixel) and using and Click on the Delete key and the inside of the picture frame will have the checkerboard pattern.

- c) **Next work on the file dogs.jpg.** Note that in order for it to fit inside the pictureframe, it needs to be atleast as large as the opening. (and it is for this exercise).
With the Move tool, move the dogs into the file postcard.jpg, and name the layer “dogs”. Move the layer dogs beneath the layer pictureframe. And now you have the complete frame.
- d) Save the file as **postcard_complete.jpg**

This is such a simple technique and often one that you forget. Some other ideas for this technique:



Done session! REMOVE YOUR MEMORY STICK!