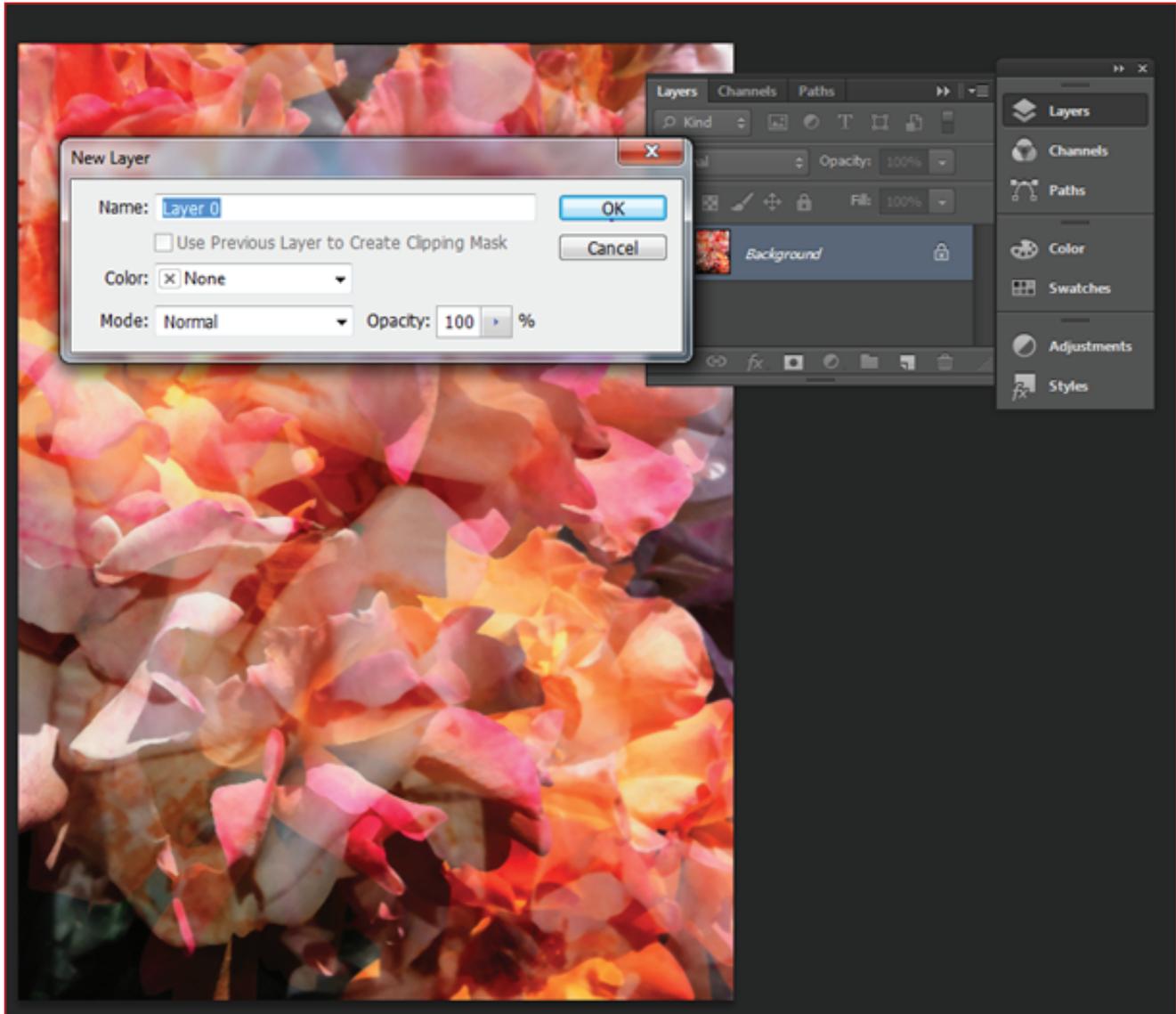


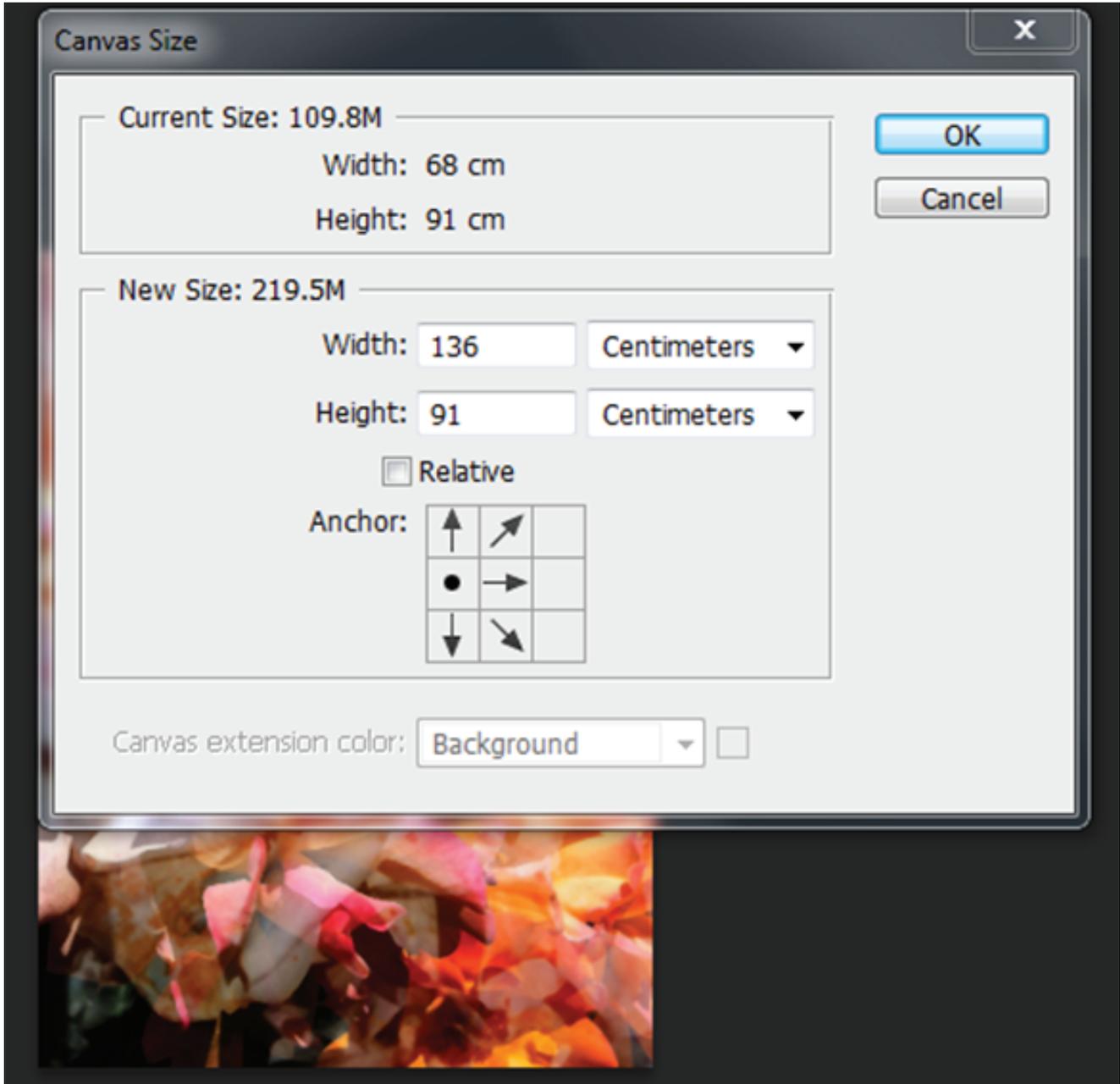
# MIRROR REPEAT TUTORIAL IN PHOTOSHOP

Open your artwork, make any adjustments to the dimensions (width/height) at this stage. Double click (press OK) the background layer in your layers panel so it is no longer locked.





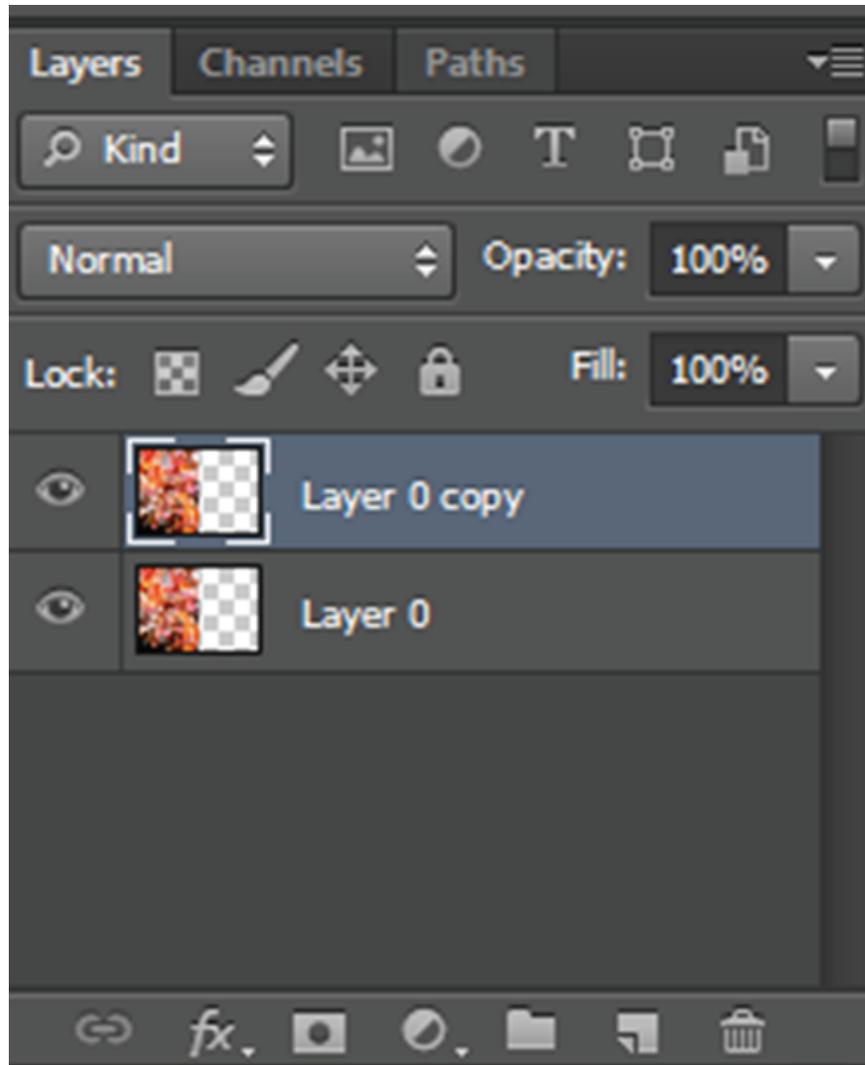
Menu > Image > Canvas Size > double the width of the canvas size making sure to click the left arrow so the increase only happens to one side.



# DIGITAL FABRICS



Now duplicate the original layer by clicking and dragging it to the second from the right icon at the base of the layers panel.



# DIGITAL FABRICS



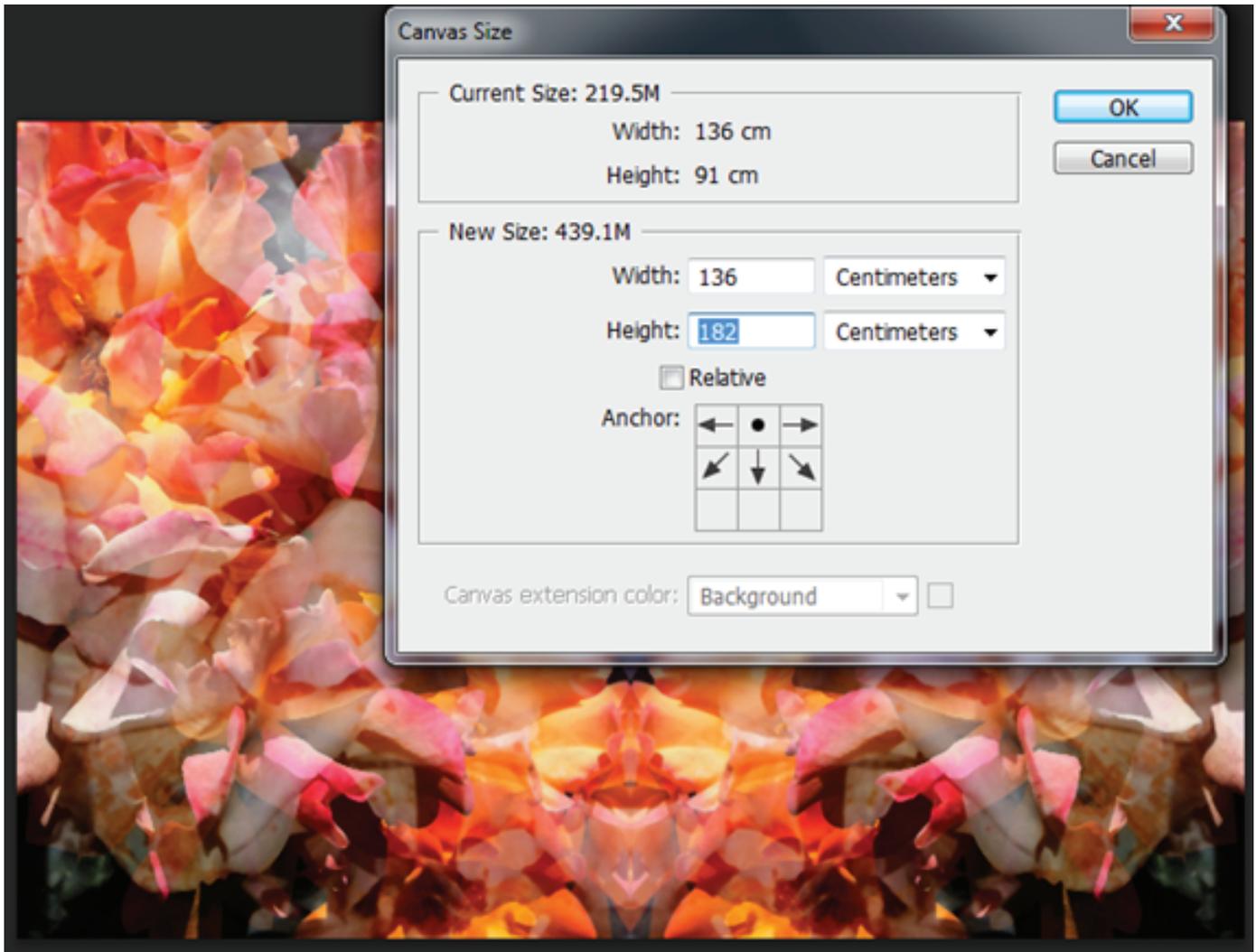
With the duplicated layer selected Menu>Edit>Transform>Flip Horizontally>OK drag the layer across (holding down shift) so it slots into place in line with the original layer. Merge Layers



# DIGITAL FABRICS



Repeat step 2) but with the length or height of the image. When you transform the duplicated layer, make sure to flip VERTICALLY before dragging into place.



# DIGITAL FABRICS



Flatten the layers. This is now your mirrored repeat tile that repeats seamlessly on all four sides!



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# DIGITAL FABRICS

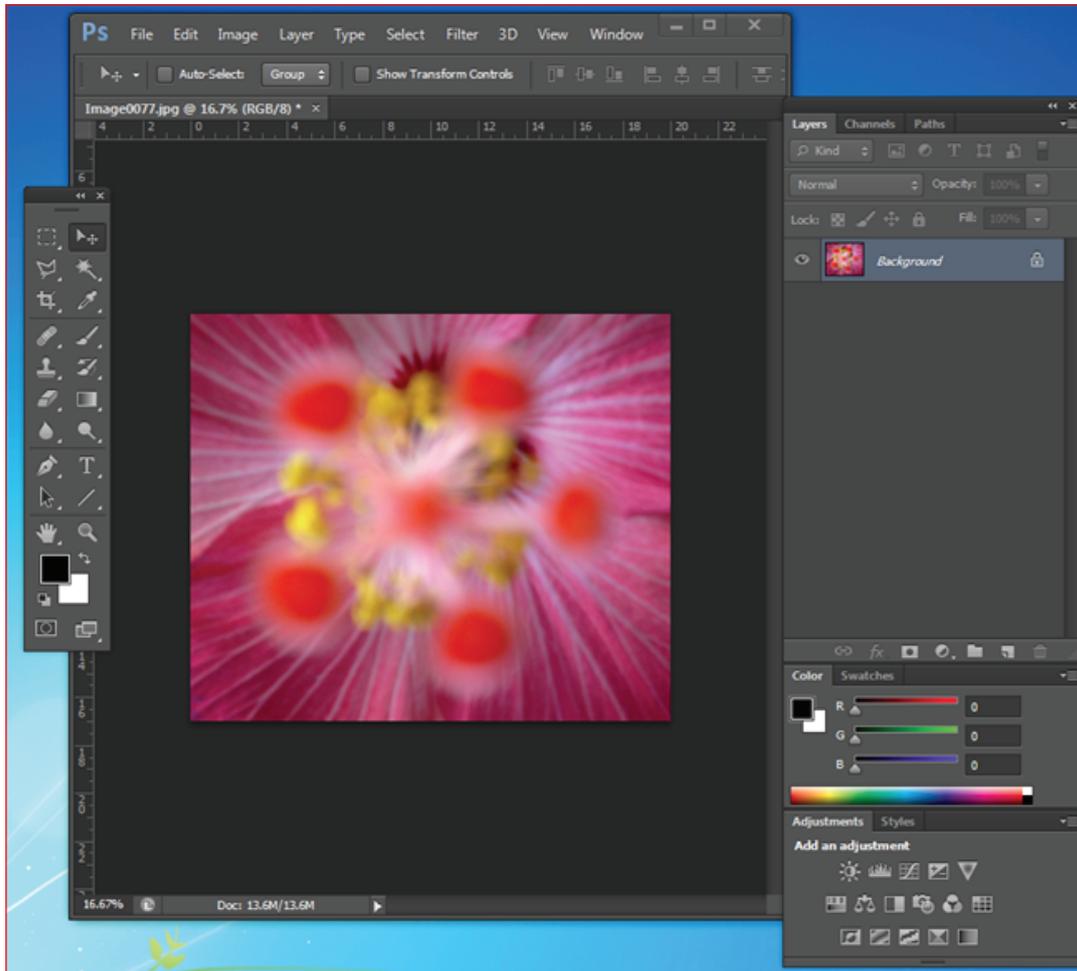


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# SQUARE REPEAT OR FULL DROP REPEAT IN PHOTOSHOP

Open your artwork file in Photoshop. It's always a good idea to check the resolution quality before beginning, a minimum of 150 dpi is recommended. Crop/alter the image as desired till you are happy with an artwork that will be tiled to repeat seamlessly.



Original image – all four corners of image are relatively different and this is what will need to be fixed to create a seamless repeat.

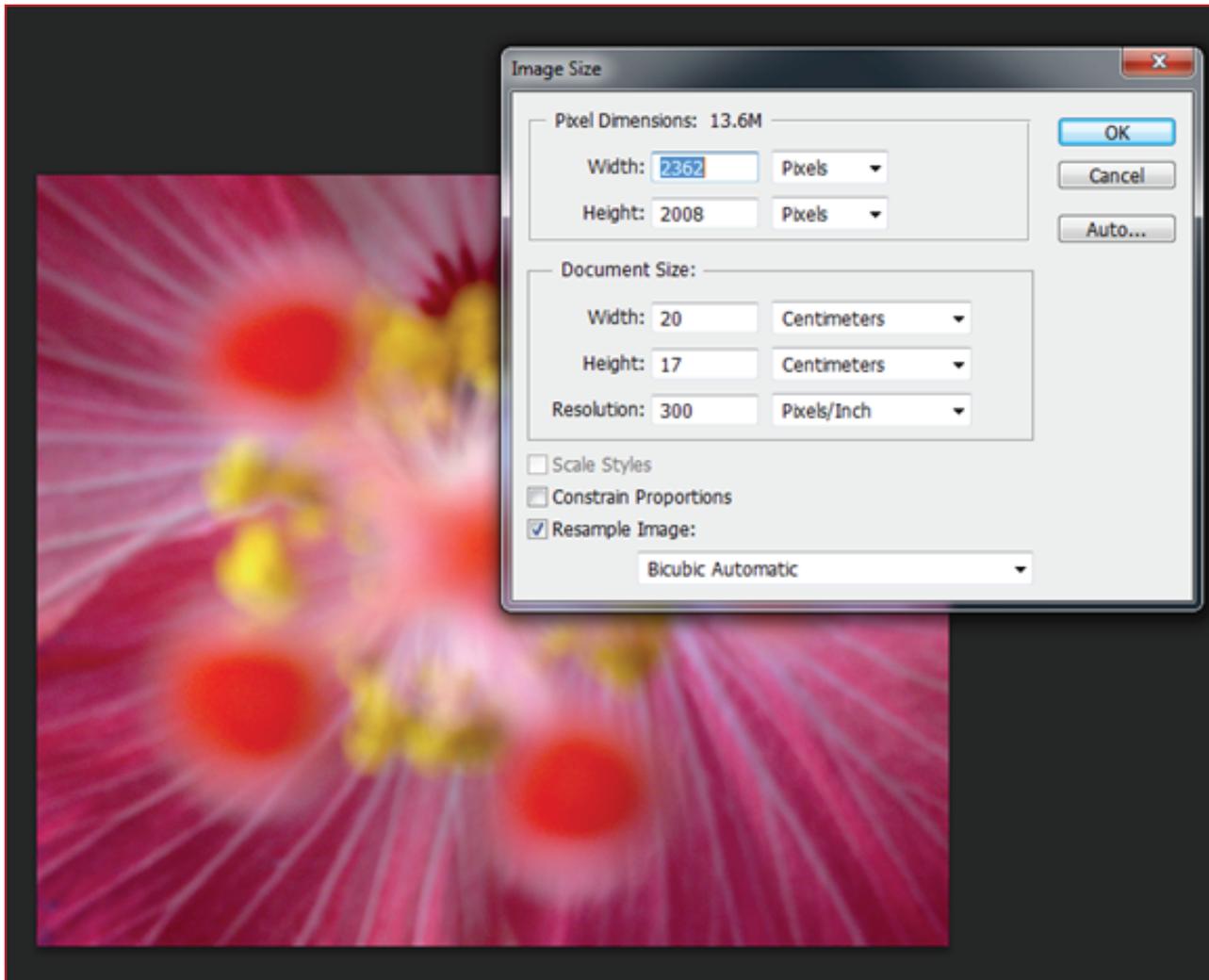
# DIGITAL FABRICS



Original image with no fixing of the seams, looks mismatched.



Take note of the pixel size of your image (Image – Image Size)

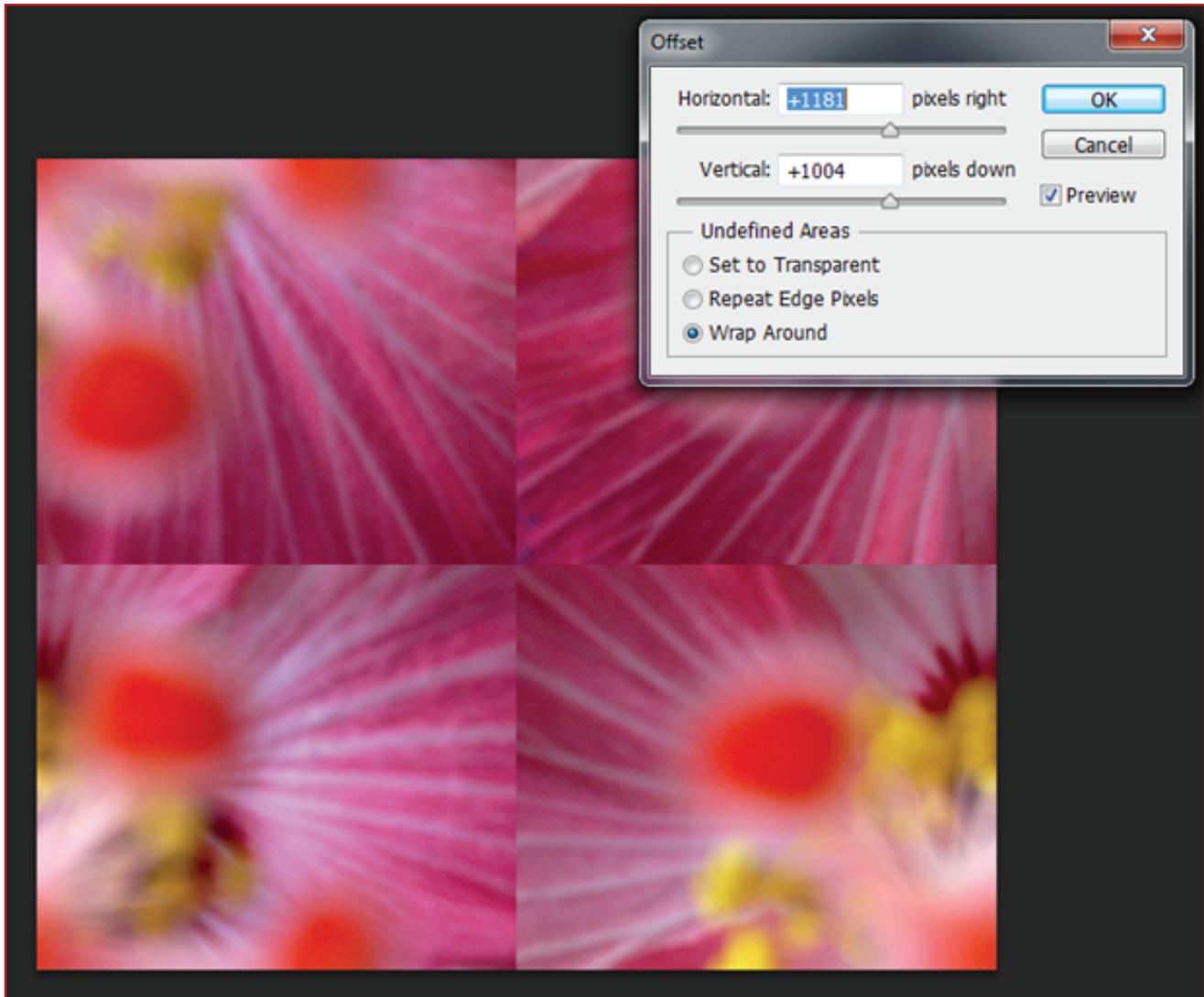


As well as HALF this amount. An easy way to do this is let the computer decide, halve the resolution amount, and re-note the new pixel dimensions. Click cancel as you don't want to actually change the resolution, just take note of it.

# DIGITAL FABRICS



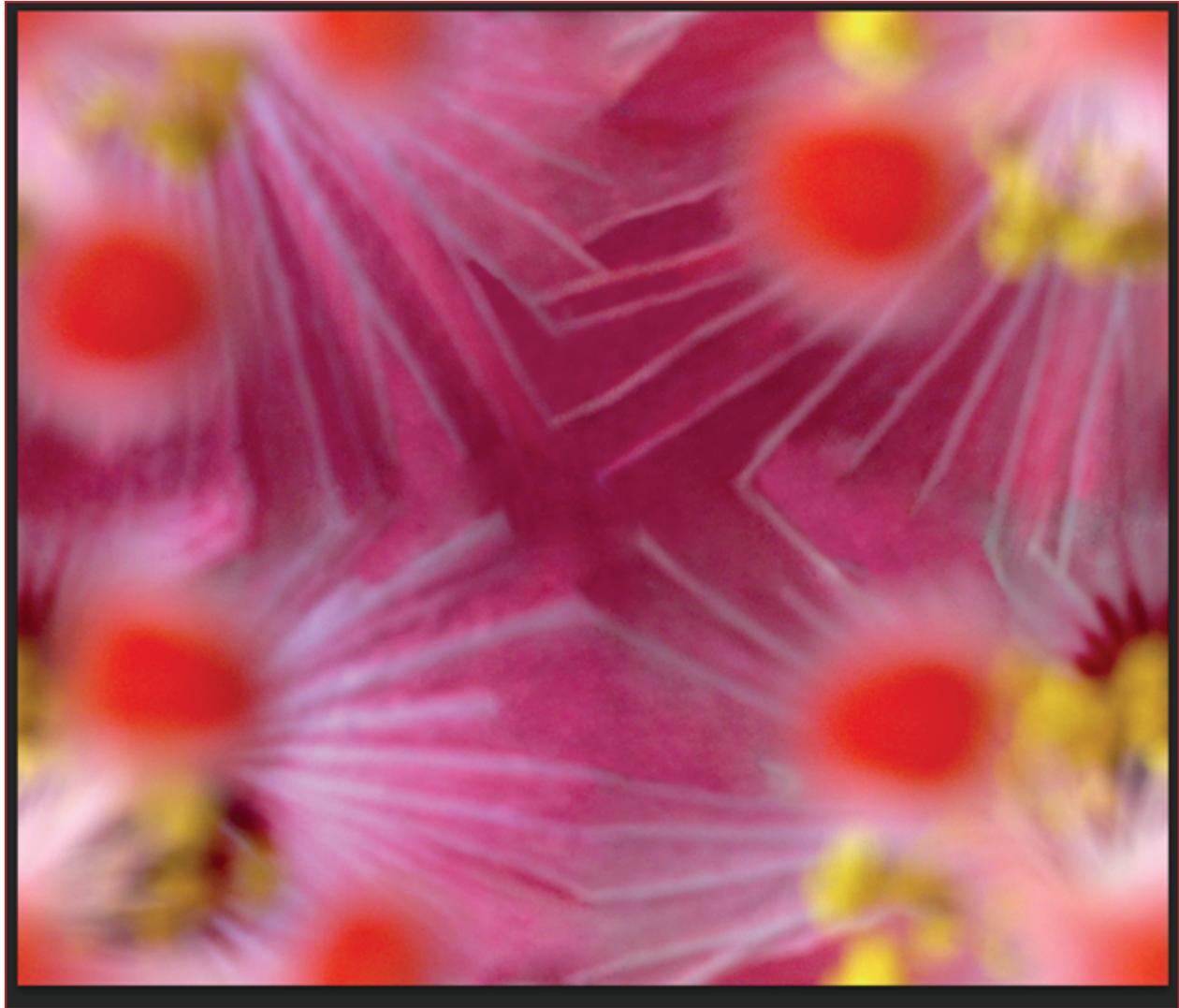
Now cut the image in half both length and width ways. This will give the edges or seams that need to be fixed for seamless repeating. It is ideal to do this step with a flattened layer. (Filter – Other – Offset) Now put in the HALVED horizontal and vertical values determined in step 2 and make sure that Wrap Around is selected. Click OK.



# DIGITAL FABRICS



It is clear to see where the image needs to be fixed to create a seamless repeat, where no harsh contrasting lines can be seen as in the above image. There are several tools to use in photoshop that you can use to do this including (but not limited to) stamp, blur, patch, clone...enjoy the play!



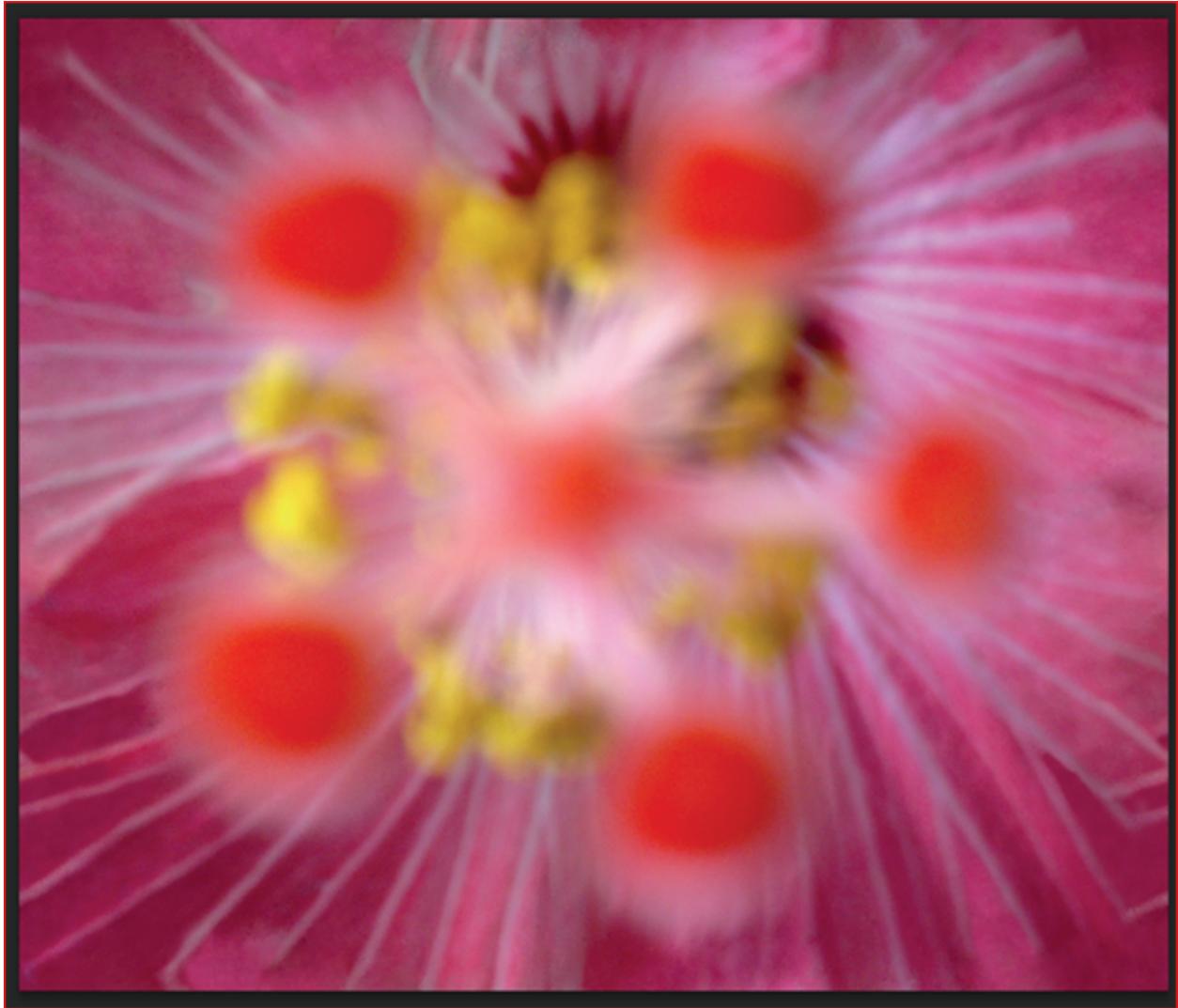
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It is a good idea to offset the now fixed image, just to check the four points that you haven't missed anything and nothing is looking odd.



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This now forms your Repeat Tile and is generally all that is required when sending artwork to a printer. **SAVE!**

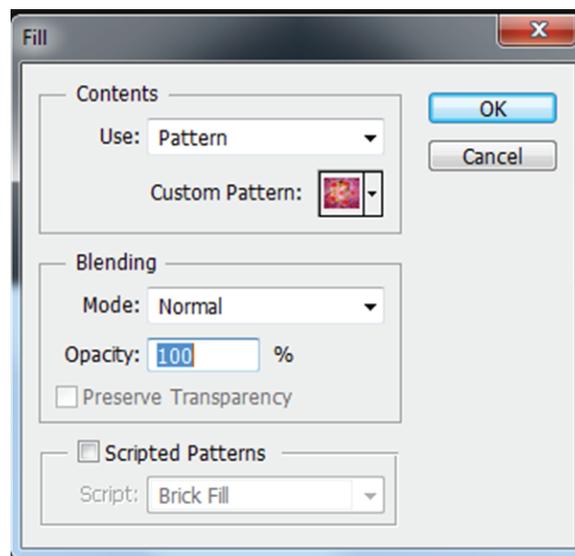
Save file as (Artwork Name)\_Repeat Tile

N.B. Keep in mind that dimensions and specific tiling information should be sent as instructions to all printers

You can now check your repeat and to see it duplicated across the width and down the length of your fabric. An easy way to do so is to define your reworked artwork as a pattern. Menu>Edit>Define Pattern>Save as preferred name.

Open a new blank document with a set up reflecting something similar to a roll of fabric i.e. 145 x 100 cm depending on you repeat tile dimensions.

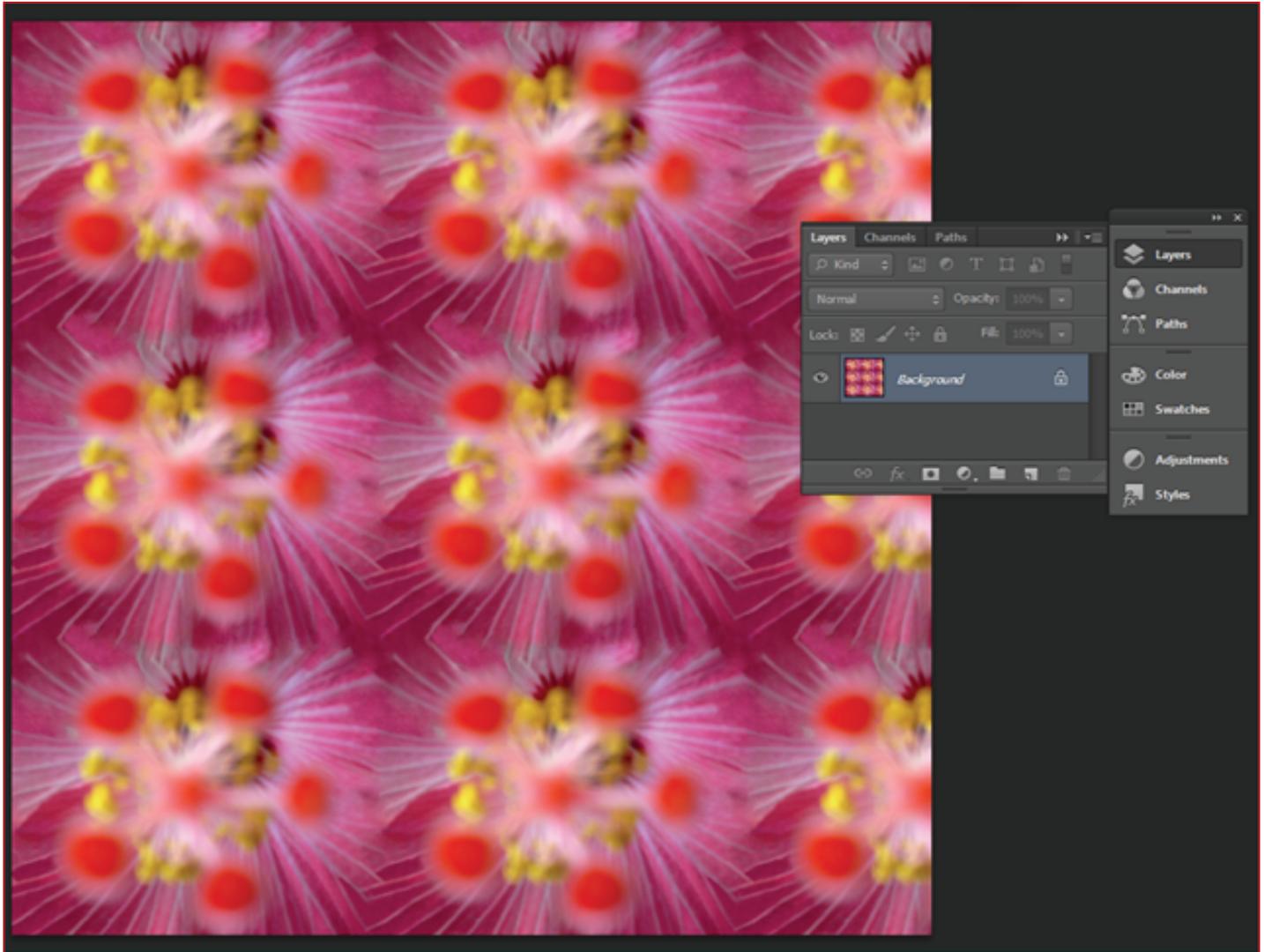
Menu>Edit>Fill>Select your saved pattern from the drop down box>OK



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(shown below is only 50 x 50 cm)



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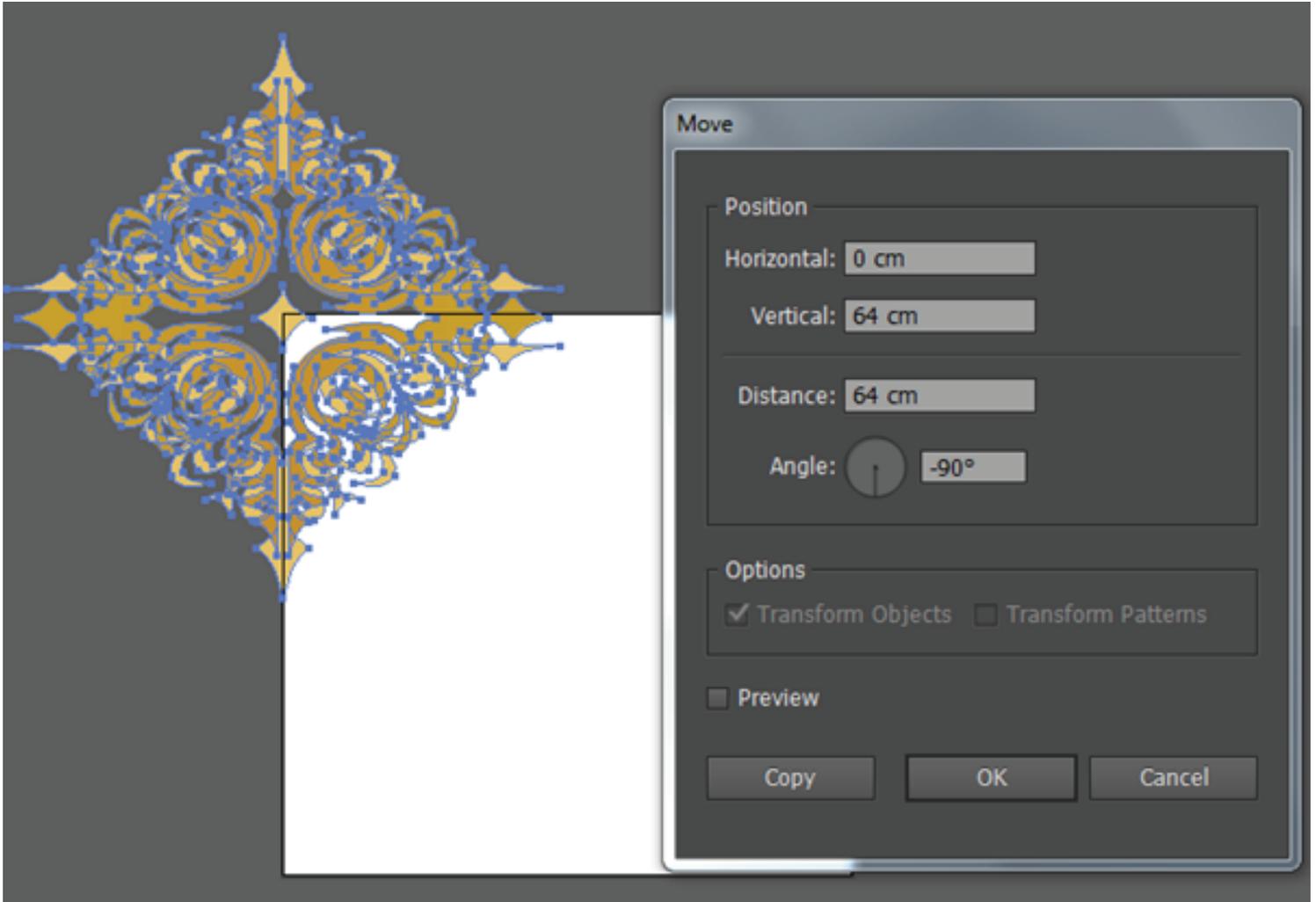
# HALF DROP REPEAT IN ILLUSTRATOR

Open up an existing illustrator artwork or create a new vector graphic to your specifications. Set up your art board to the repeat size that you'd prefer. Here I'm using a 64 cm repeat. Starting off with squares can be easier to work out half measurements at a late step.



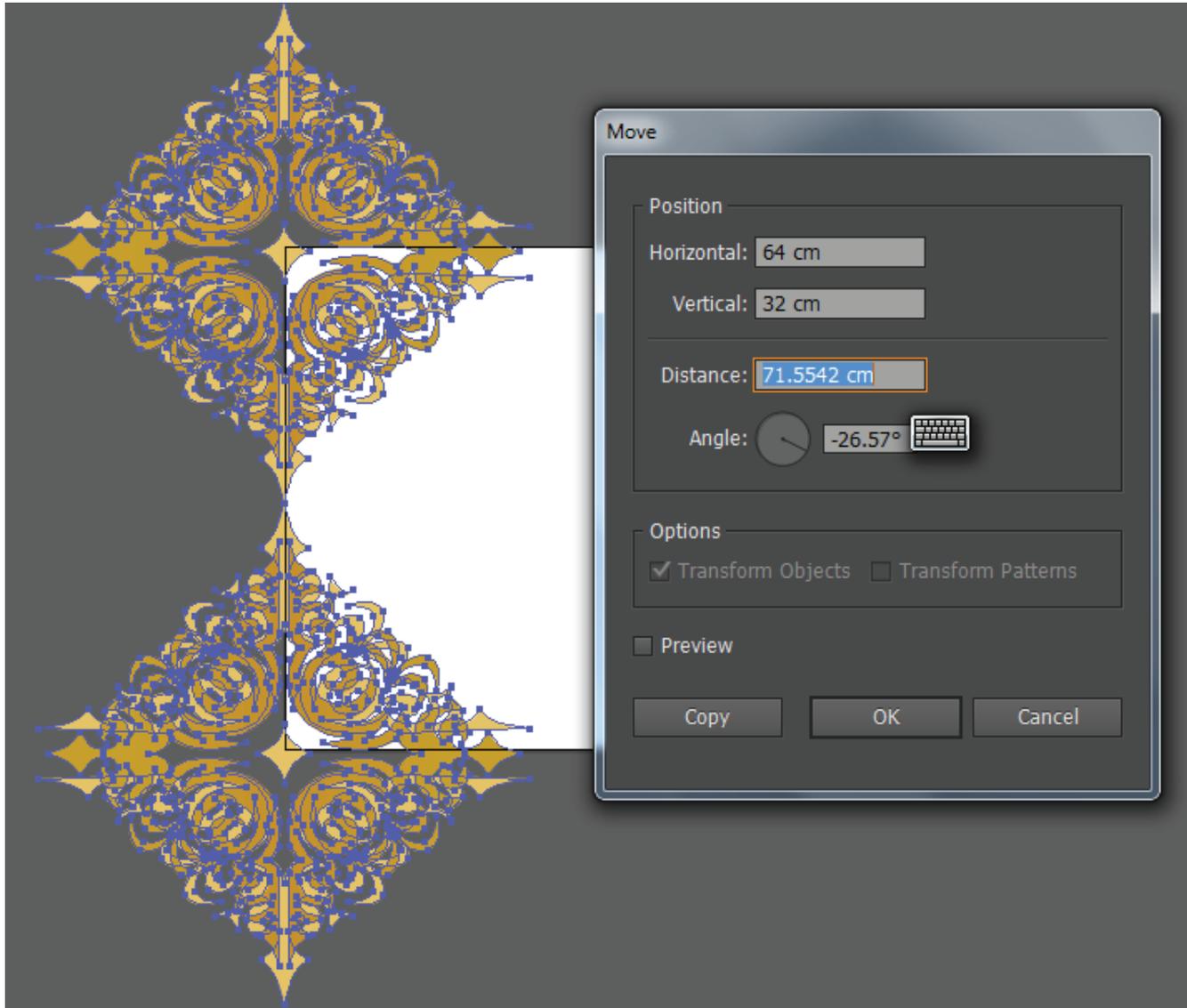


When you are happy with your artwork, move it to the top left corner of your art board so it hangs off the edge. Then as the previous tutorial, double click on the move tool to duplicate (click copy) the object the exact repeat size **vertically**.





Now with all objects selected, use the move tool again. This time you will duplicate the objects **across** the full repeat width but **down** by **HALF** the repeat size, in this case 64 x 32 cm. Click copy.



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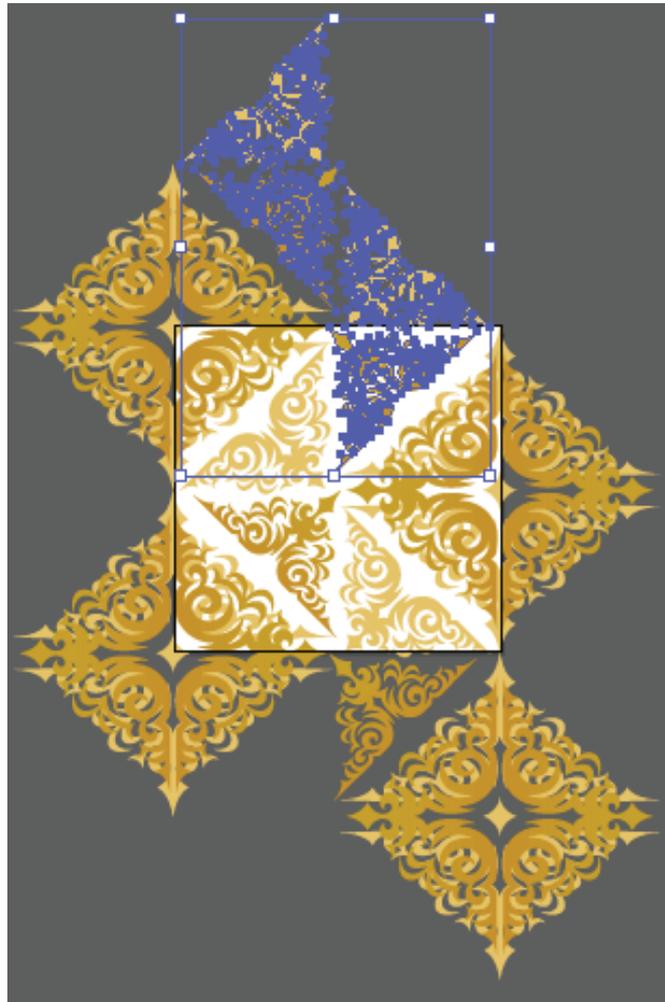
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# DIGITAL FABRICS



At this stage you can adjust the scale of the original object or add in additional motifs. This is not always necessary and depends on your individual artwork but it has the potential to add variety and interest in the overall design.

N.B. Don't forget that what happens on the top 'line' of your artboard must happen on the bottom i.e. repeat





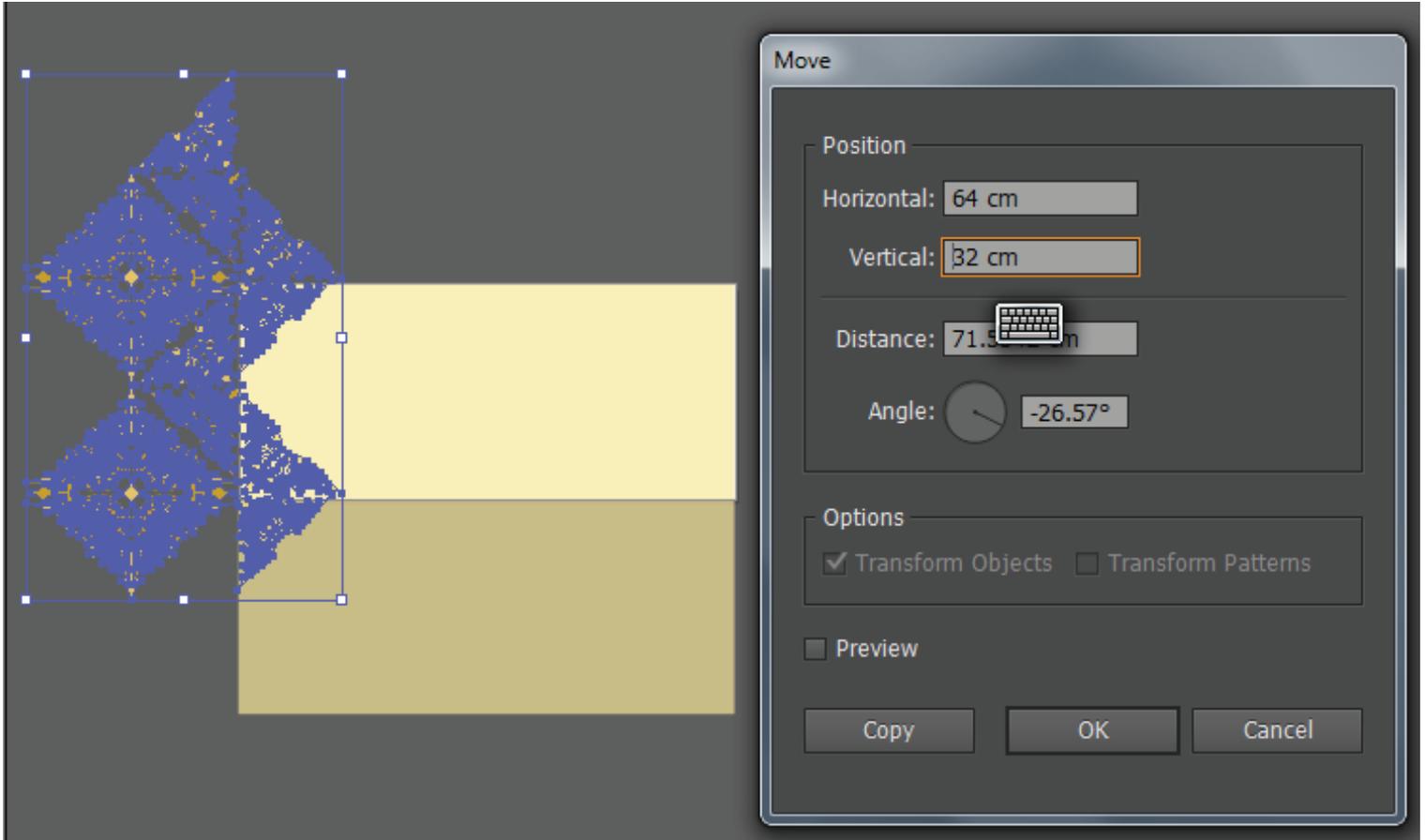
When you are happy with the layout for your half drop, delete any duplicated objects (across the right side and bottom of artboard) so that you only have one group of objects.



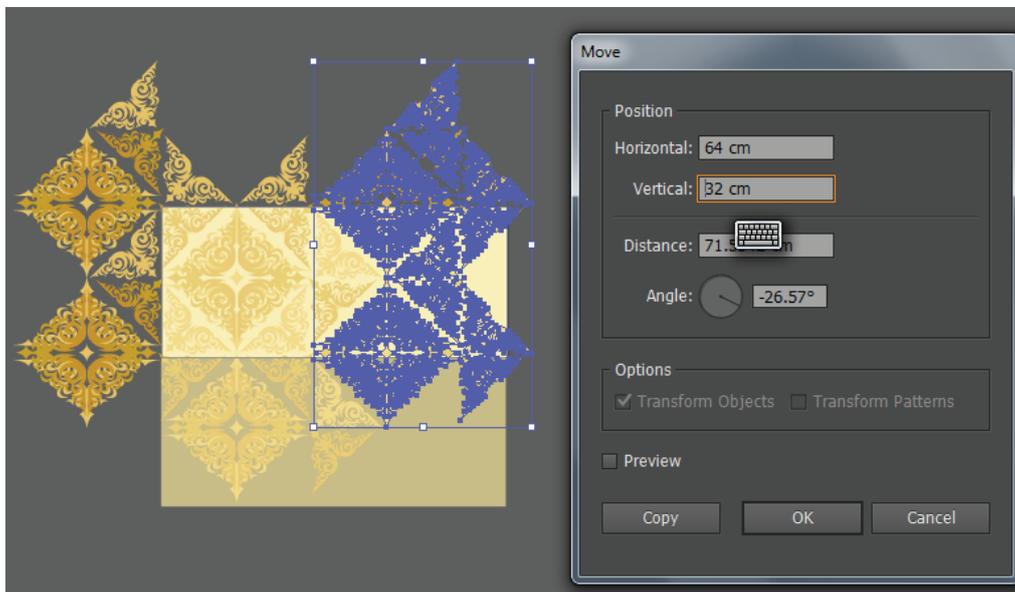
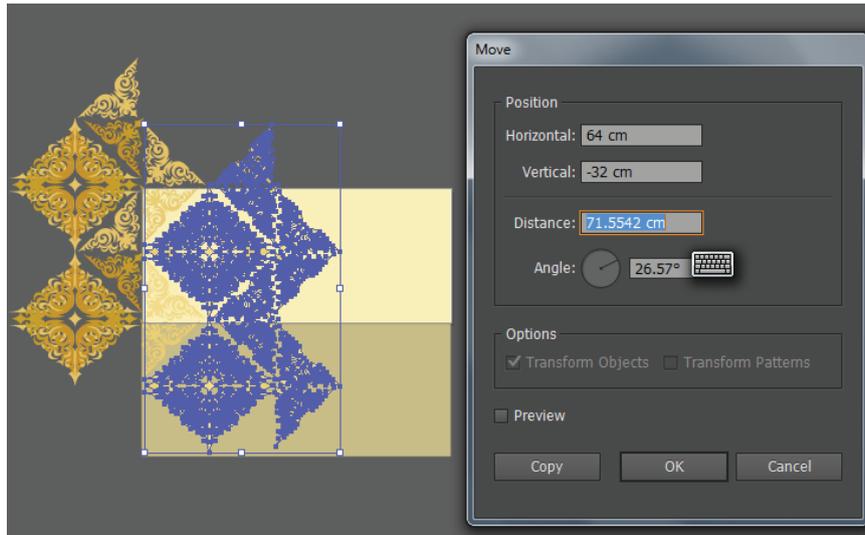
# DIGITAL FABRICS

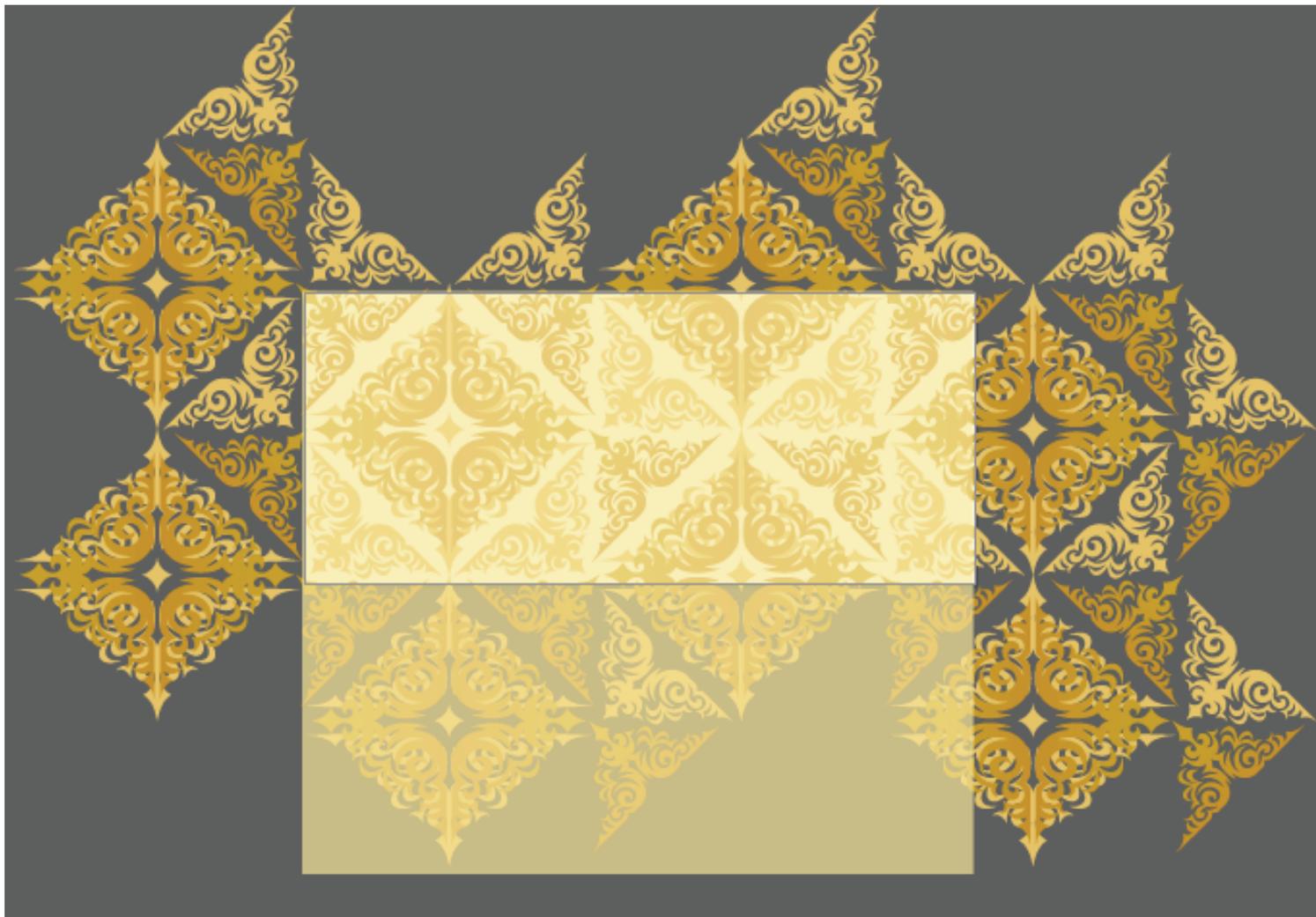


Adjust the artboard dimension to to be a full print width, in this case 147cm and proceed to duplicate the objects so that it fills and over hangs the artboard. Remember that it is a half drop, so follow the previous steps for duplication.



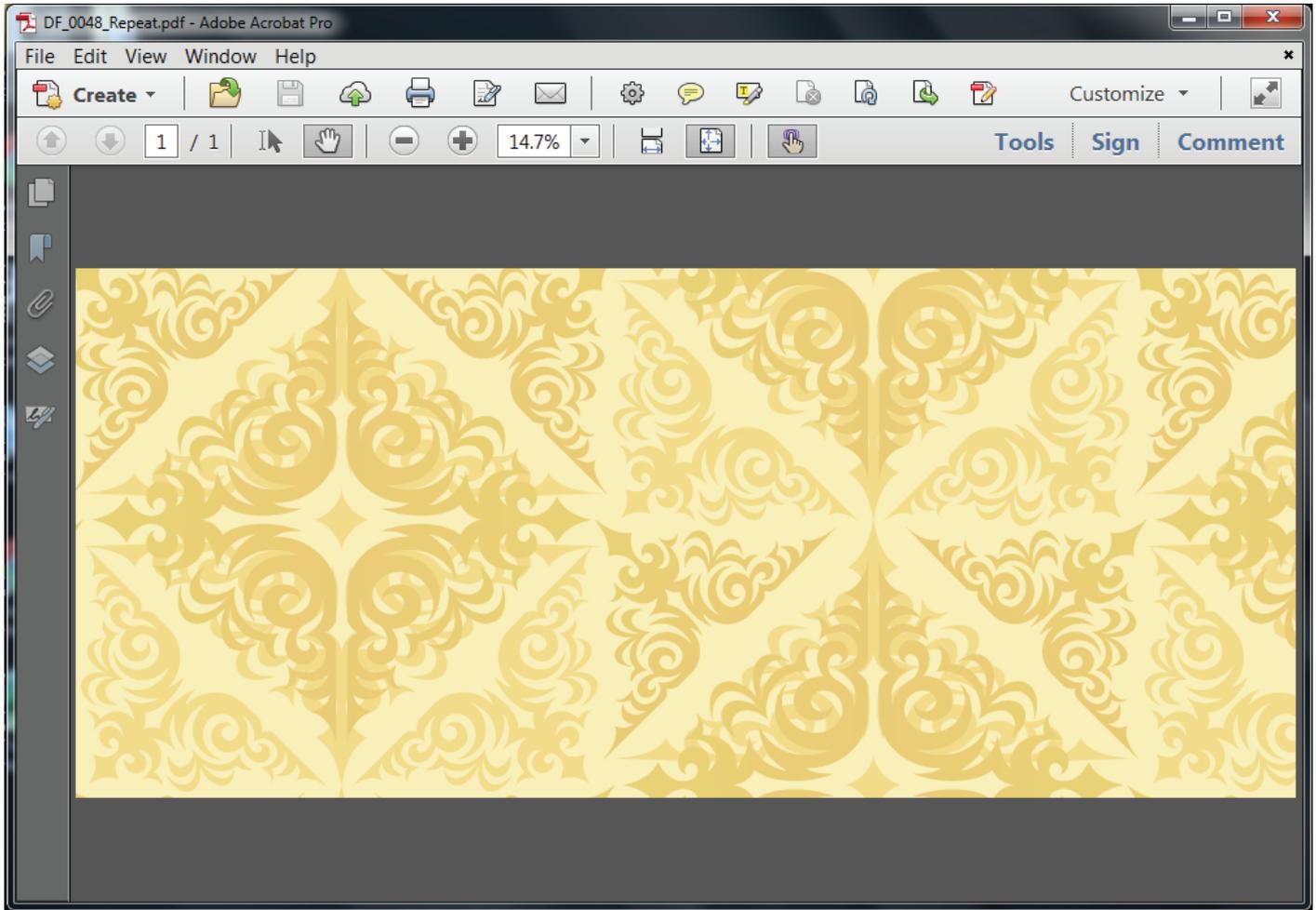
# DIGITAL FABRICS





A colour overlay was added purely for aesthetic purposes. Save as pdf as previous tutorial.

# DIGITAL FABRICS

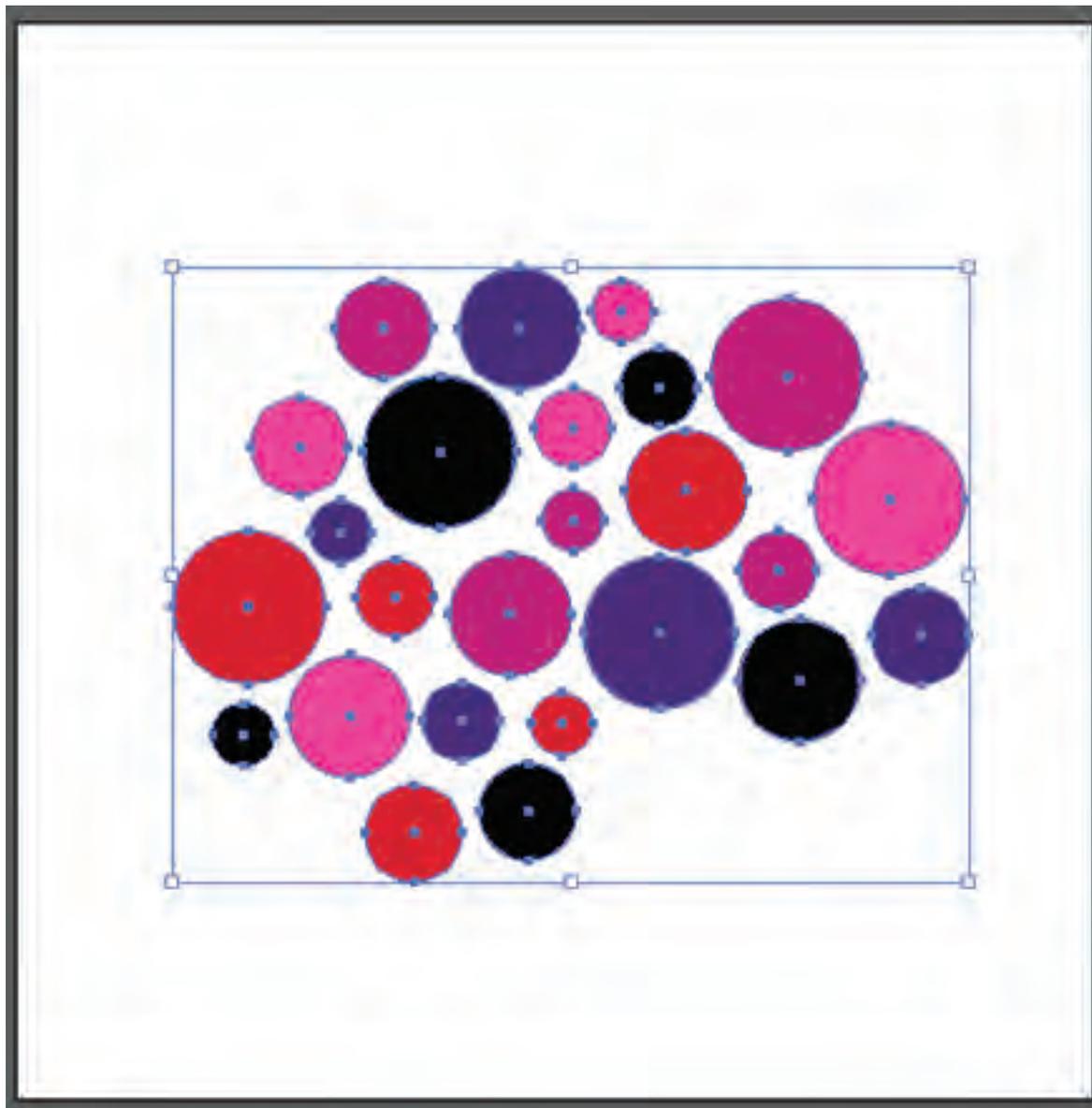


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# FULL DROP/SQUARE REPEAT IN ILLUSTRATOR

Either open up an existing illustrator file or begin by developing your vector image that you desire to repeat. I have started with a basic spot, varying the size and colour to add variety and this will form the base of the repeat.



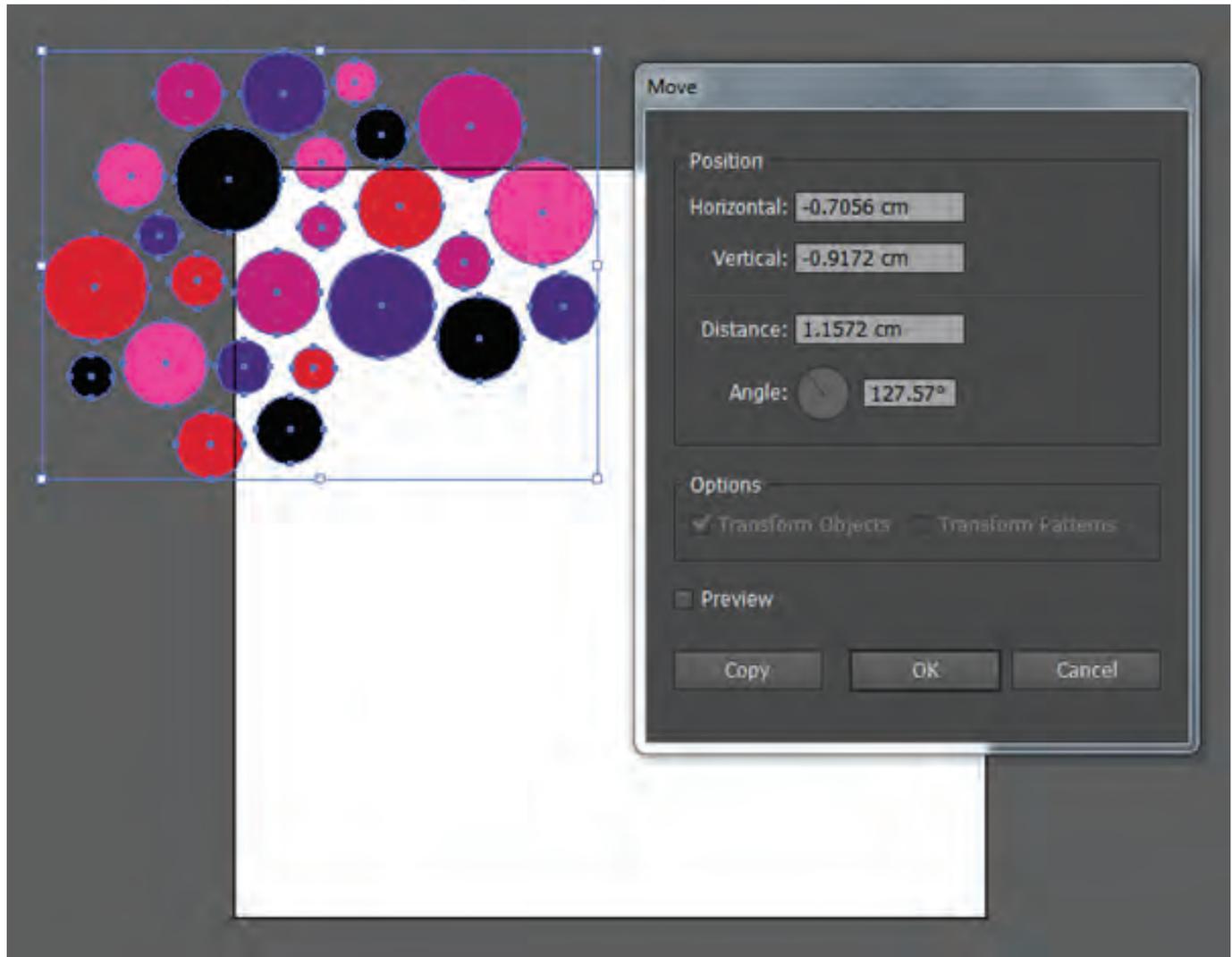


Set up your art board to your desired repeat size. This depends on your end product, but to start off with, work with squares to help with calculations. I have set up my repeat to be 32 x 32 cm. For interested sake, this is a standard *rotary* repeat set up. Place your initial artwork to the top left corner of the art board, letting it hang over the edge.





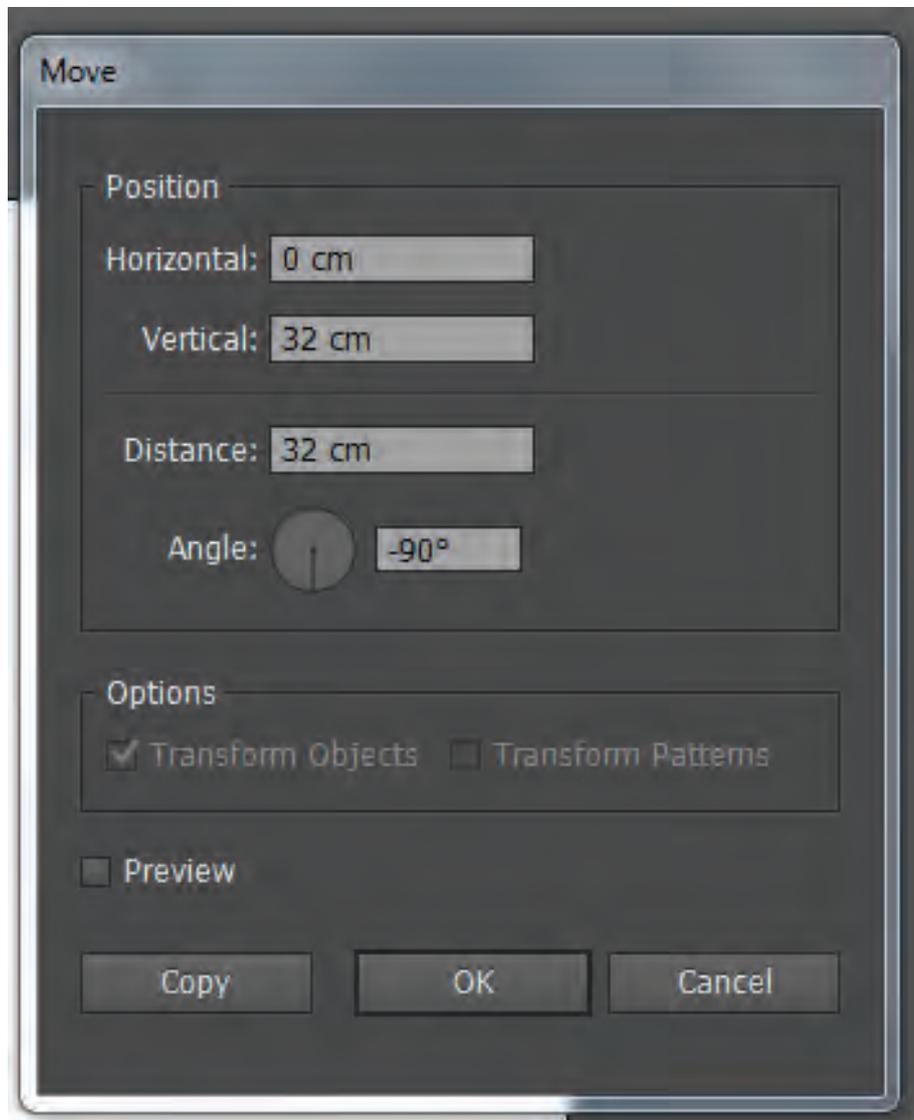
Select all objects (sometimes helpful to group them so you don't miss any when duplicating). Double click on the black selection tool in the tools panel and a dialogue box will appear.



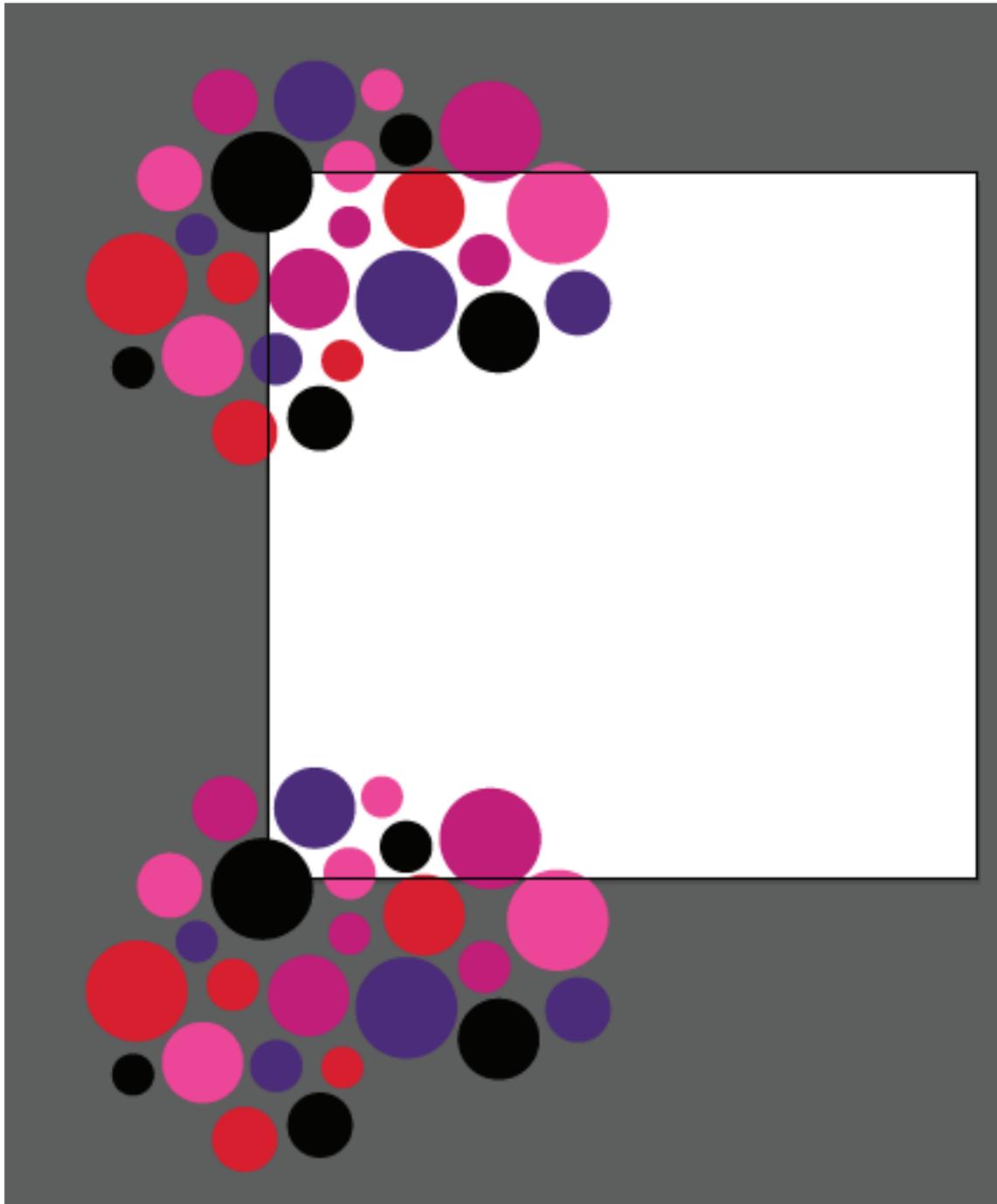
This is how you can move objects an exact amount i.e. the repeat size and know that all objects within that repeat will align perfectly.



First duplicate the selected objects the **repeat size down** or **vertically**. My repeat is 32 cm, so they are moved 32 cm vertically. Make sure the horizontal value is 0. Click COPY.



# DIGITAL FABRICS



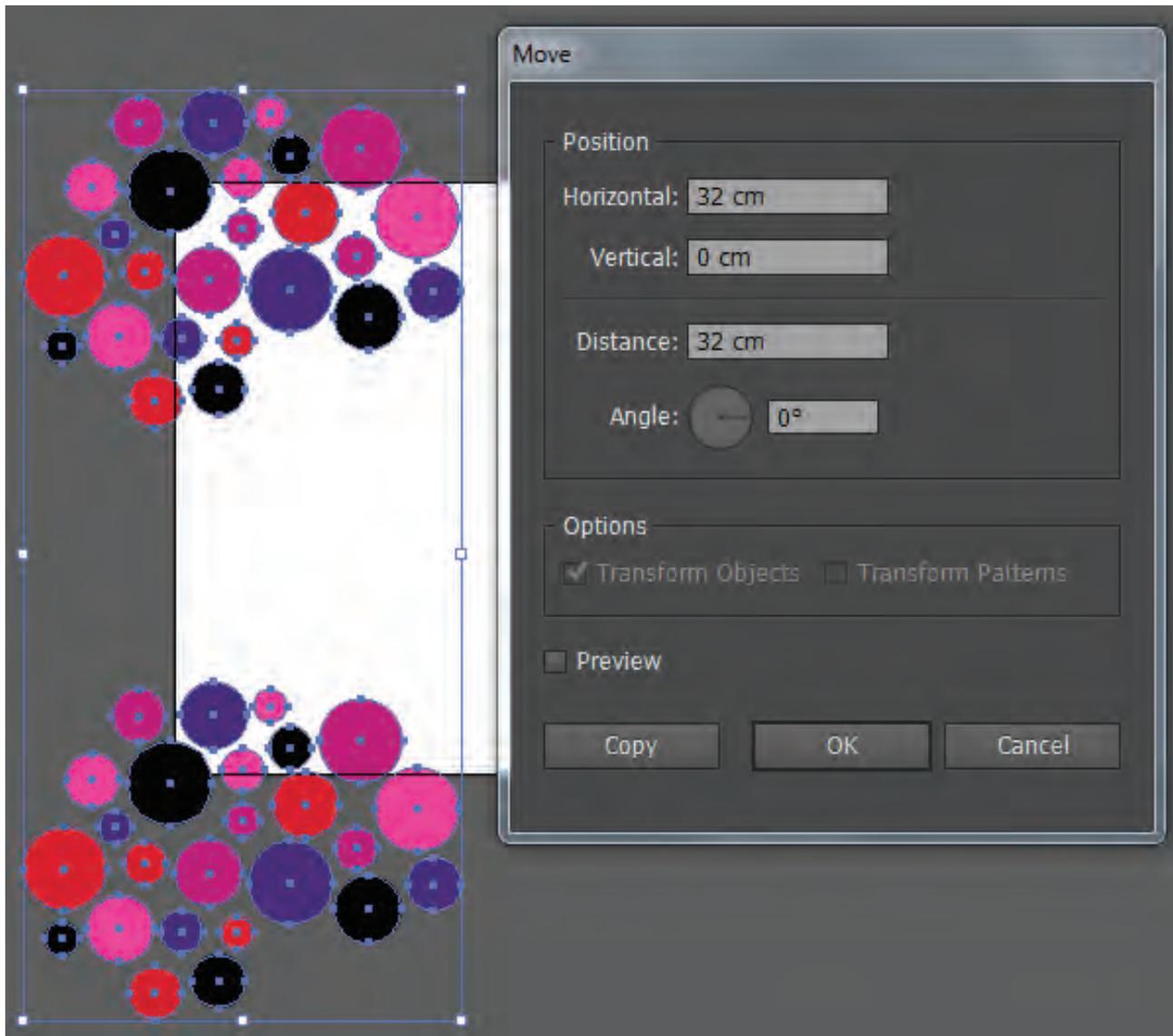
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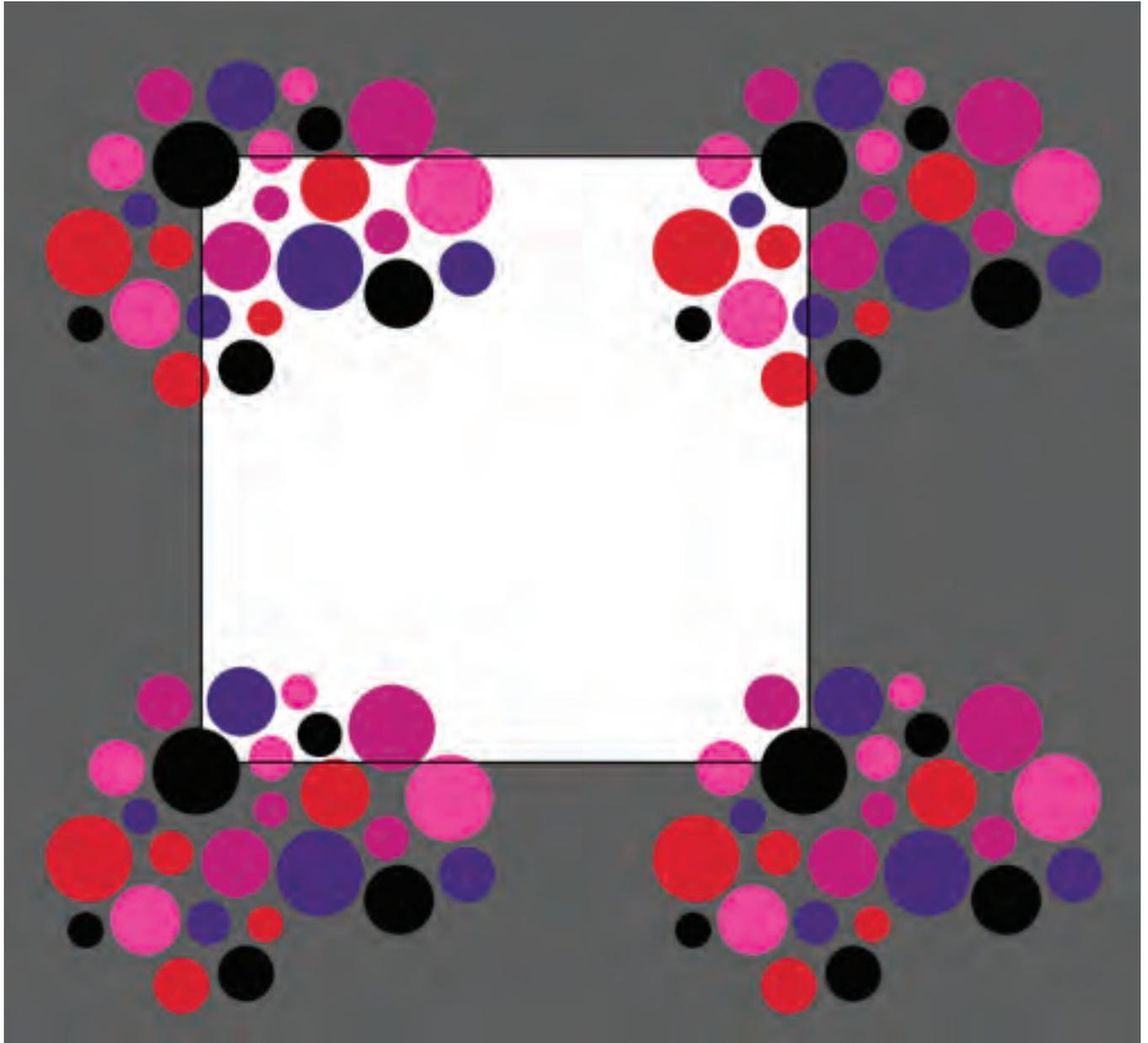
# DIGITAL FABRICS



Now repeat horizontally by selecting both groups of objects along the left side. When in the move dialogue box make sure the **horizontal value** is the repeat size and the vertical value is 0. Click COPY.



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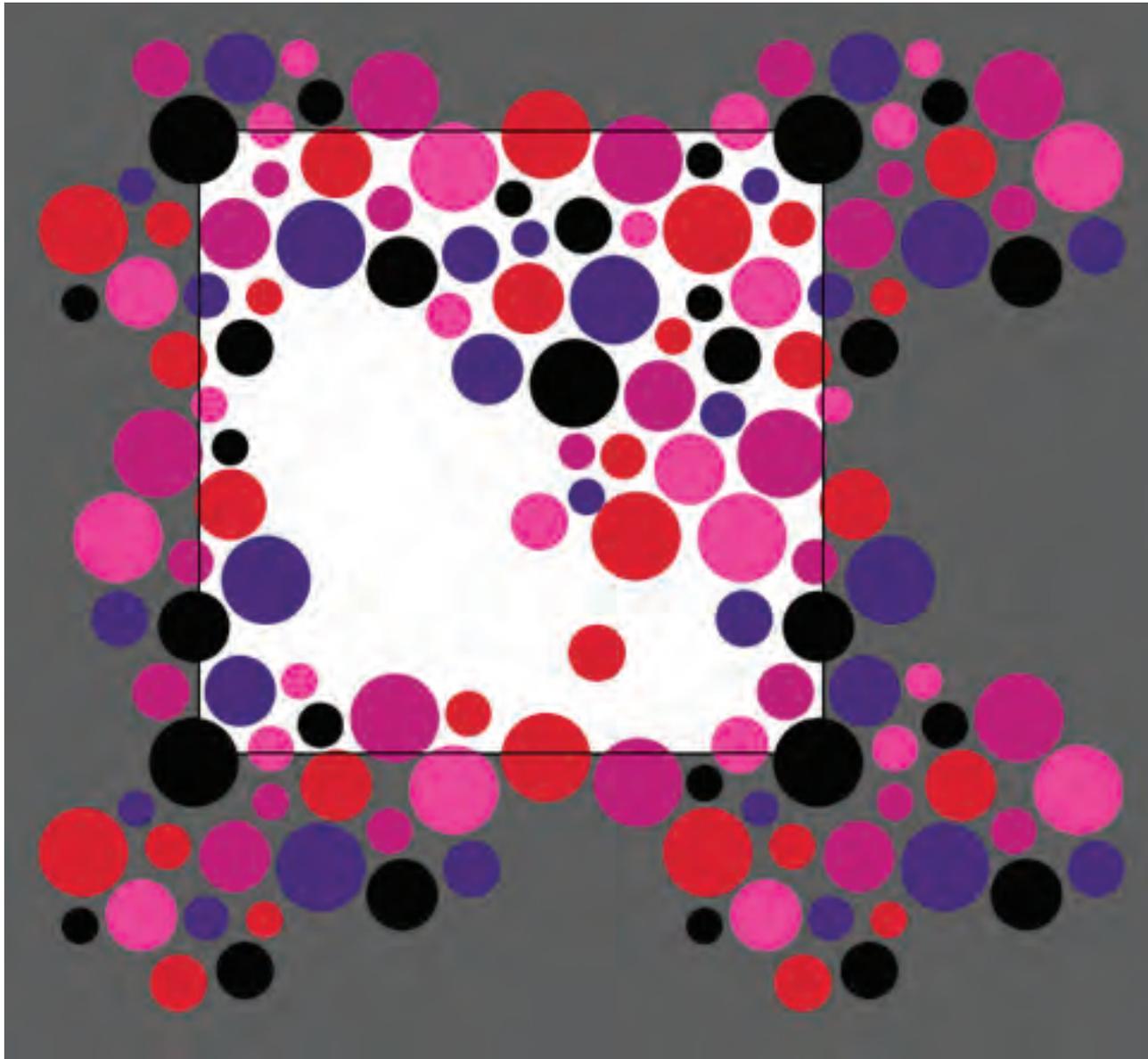


Now is the time to fill in the blank space in the middle with additional objects. Tip: Lock the three extra sides of the repeat or put them on a separate locked layer so they can be easily deleted in a following step. This may require some more advance knowledge of illustrator, but don't let this deter you if you are new, it could be helpful in mastering the program! The level of difficulty here will greatly depend on the style and type of original artwork you are using and will call into play several design elements and principles such as space, balance and unity. Watch out for anything that forms a definite line or **track mark** through your design. You may need to shift or adjust parts of your original artwork to make the repeat work, in which case it can be a good idea to work in layers (with a copy of the original locked) in case you want to jump back to the beginning.

# DIGITAL FABRICS



Work towards filling in the edges, duplicating them down/across to the repeat edges, till all you have is the middle to fill.



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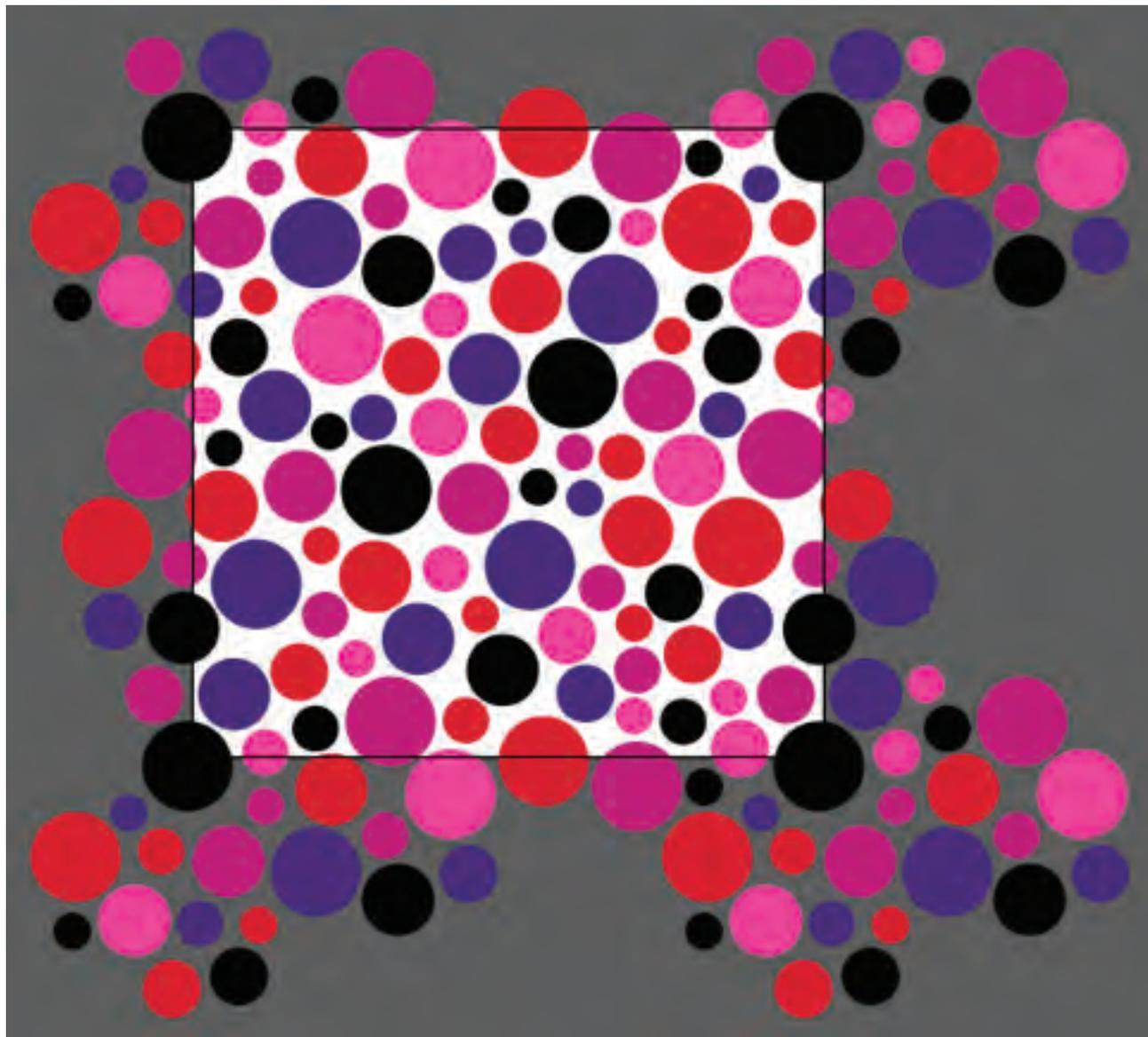
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Continue until you are happy with the flow and feel of the design.



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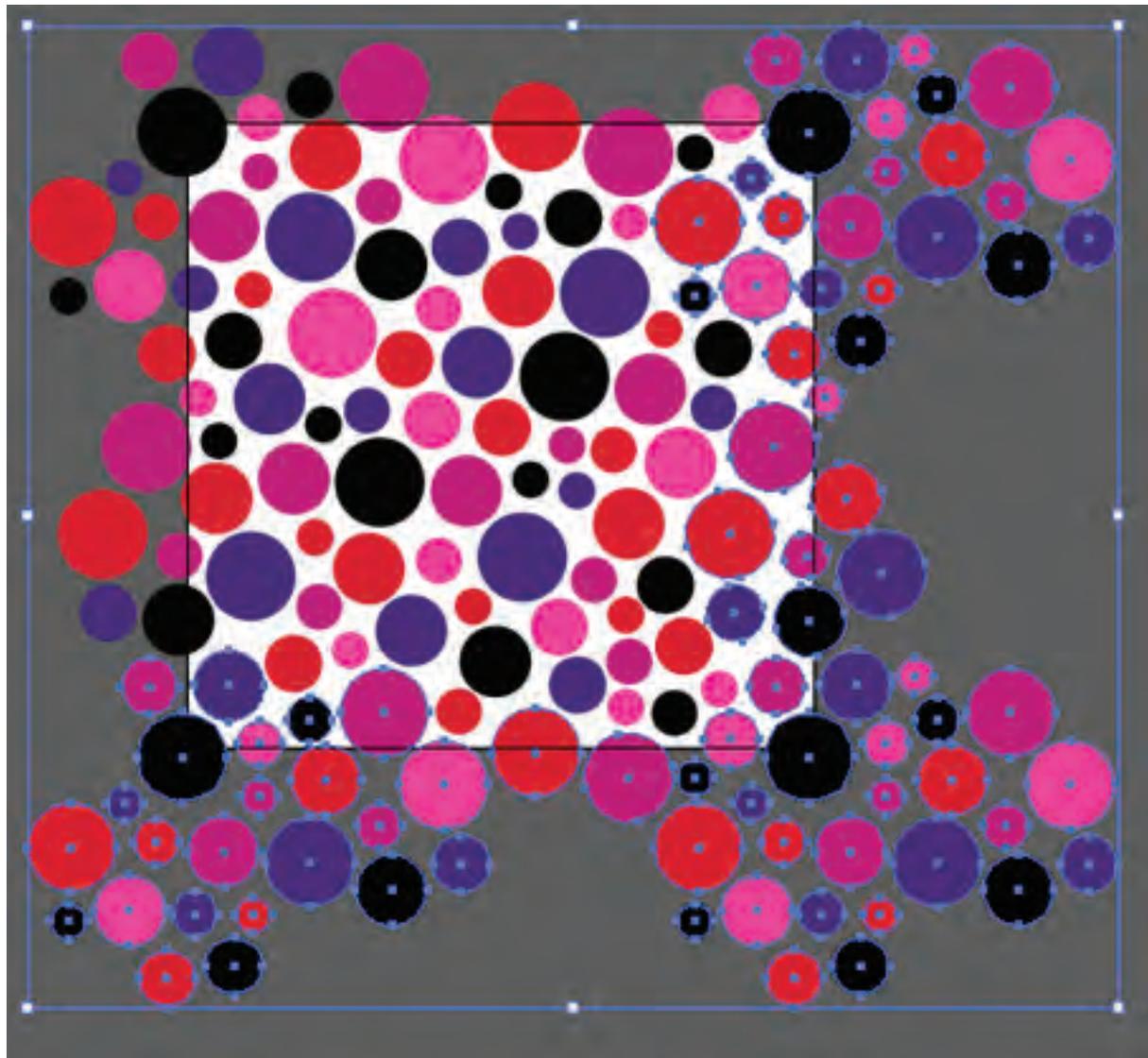
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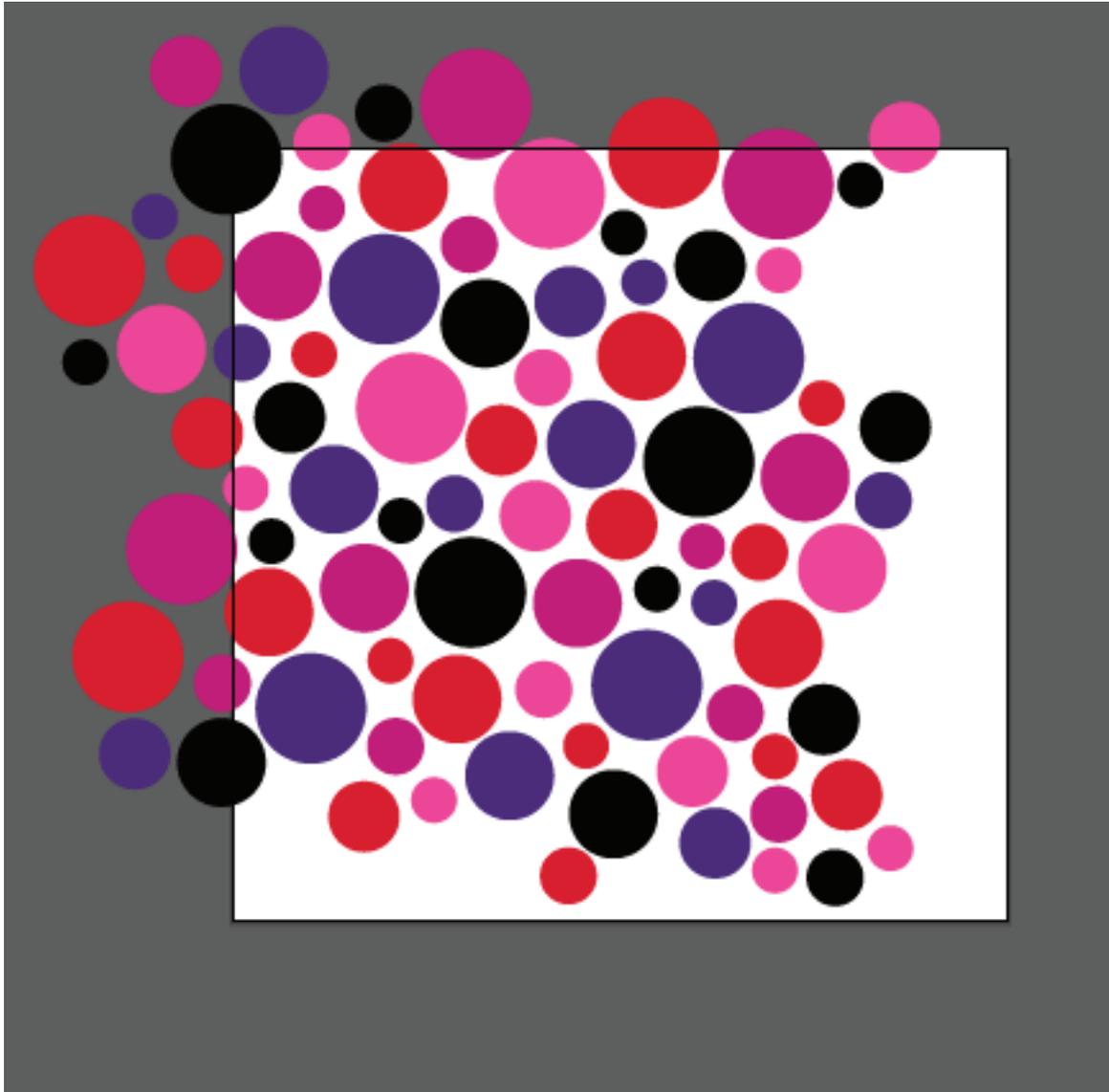
# DIGITAL FABRICS



Now delete the three extra sides that were locked in step 6. Then repeat the duplicating sequence with all the added areas of the design. This will help you check anything that may have doubled up or just doesn't look right in the repeat.



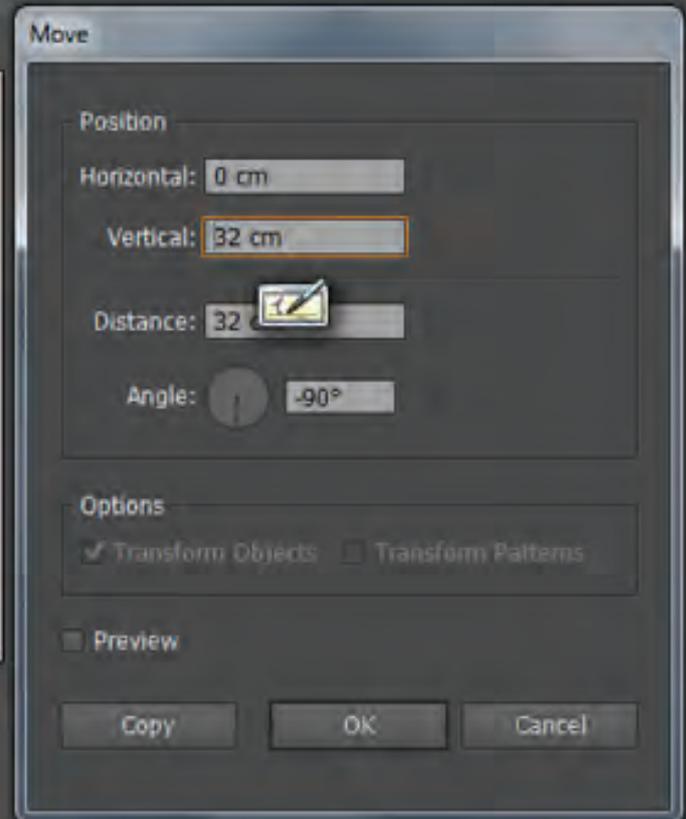
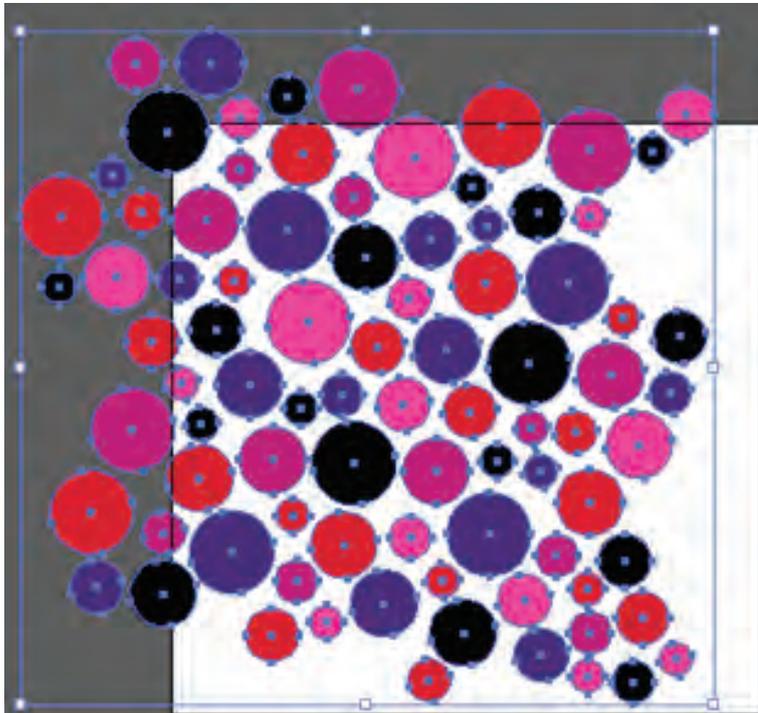
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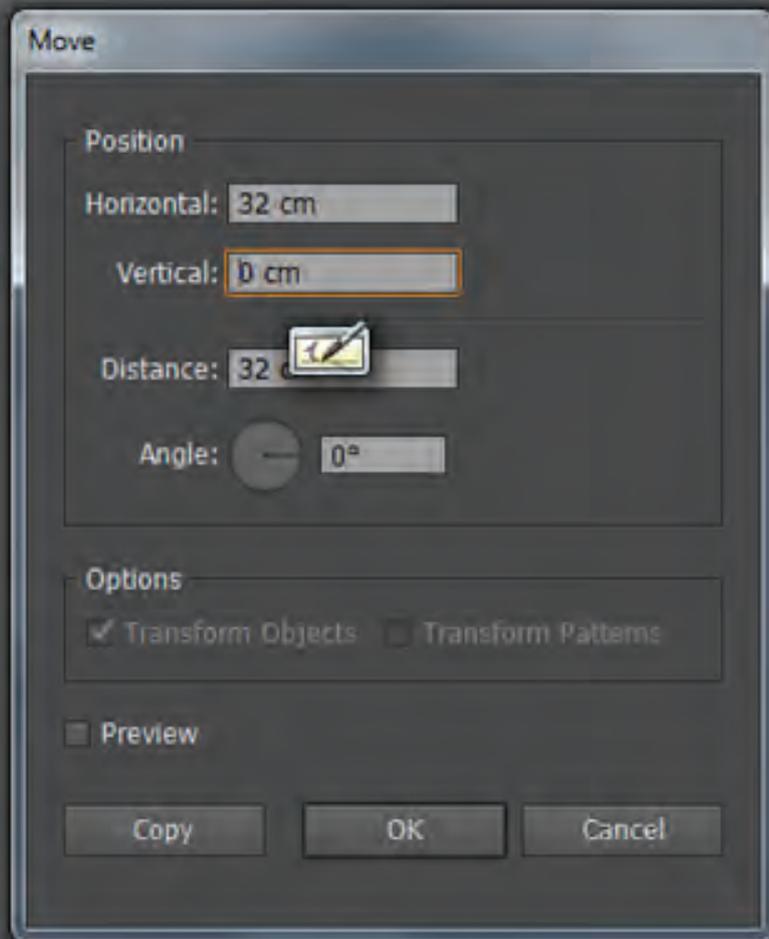
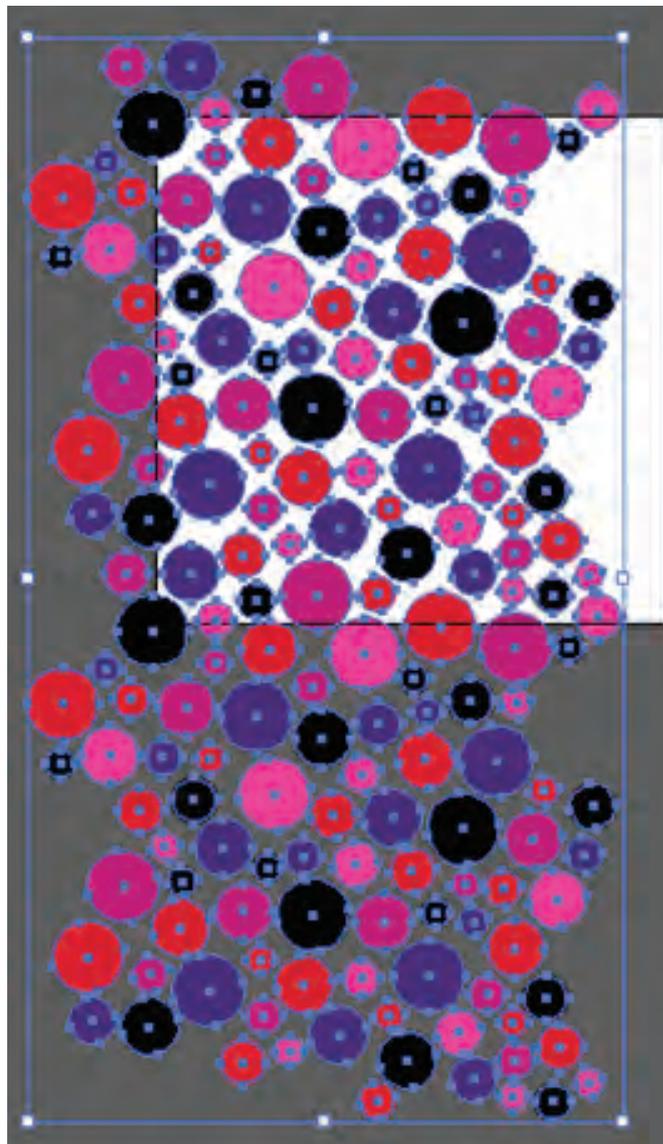
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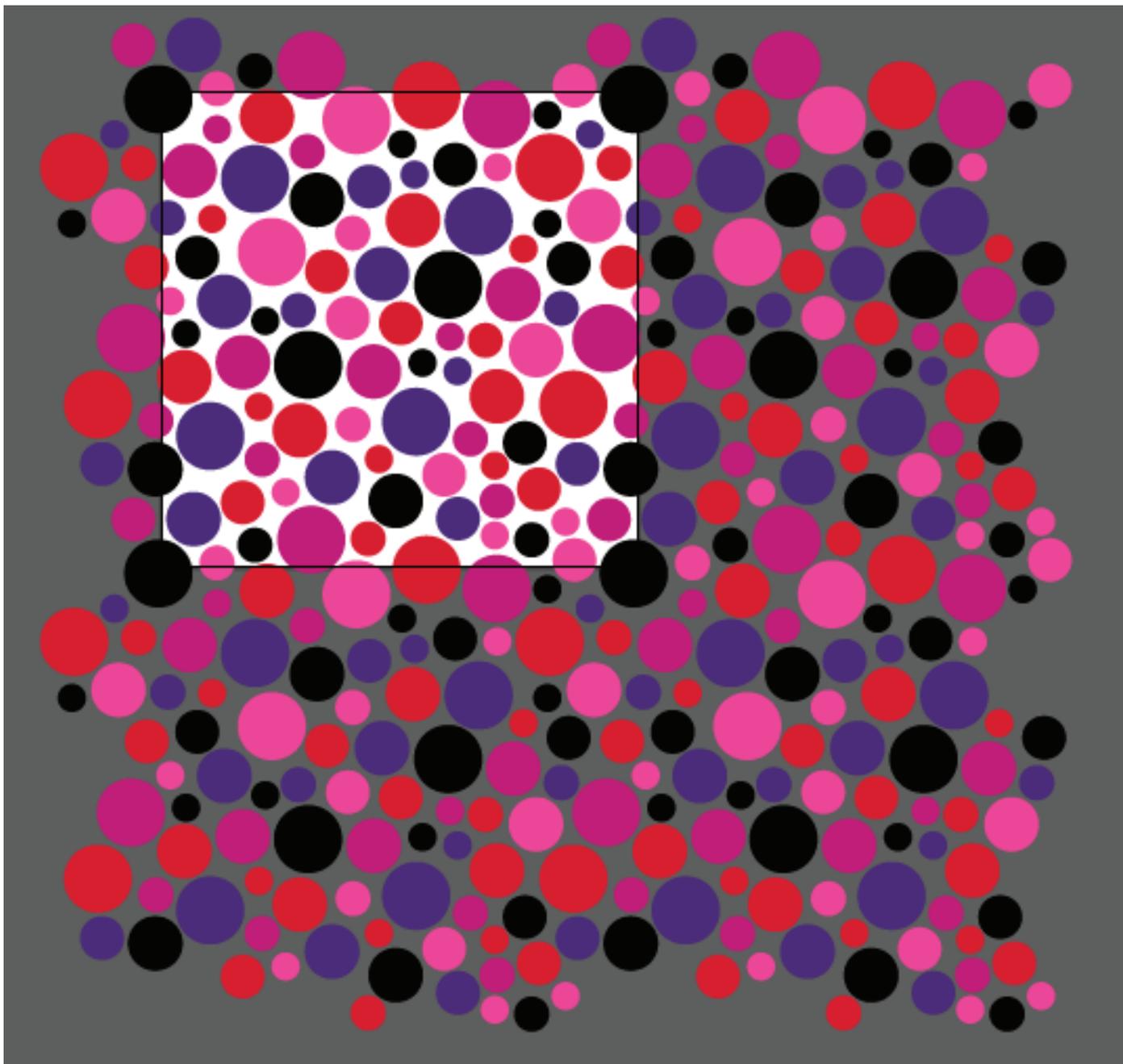
# DIGITAL FABRICS



# DIGITAL FABRICS



# DIGITAL FABRICS



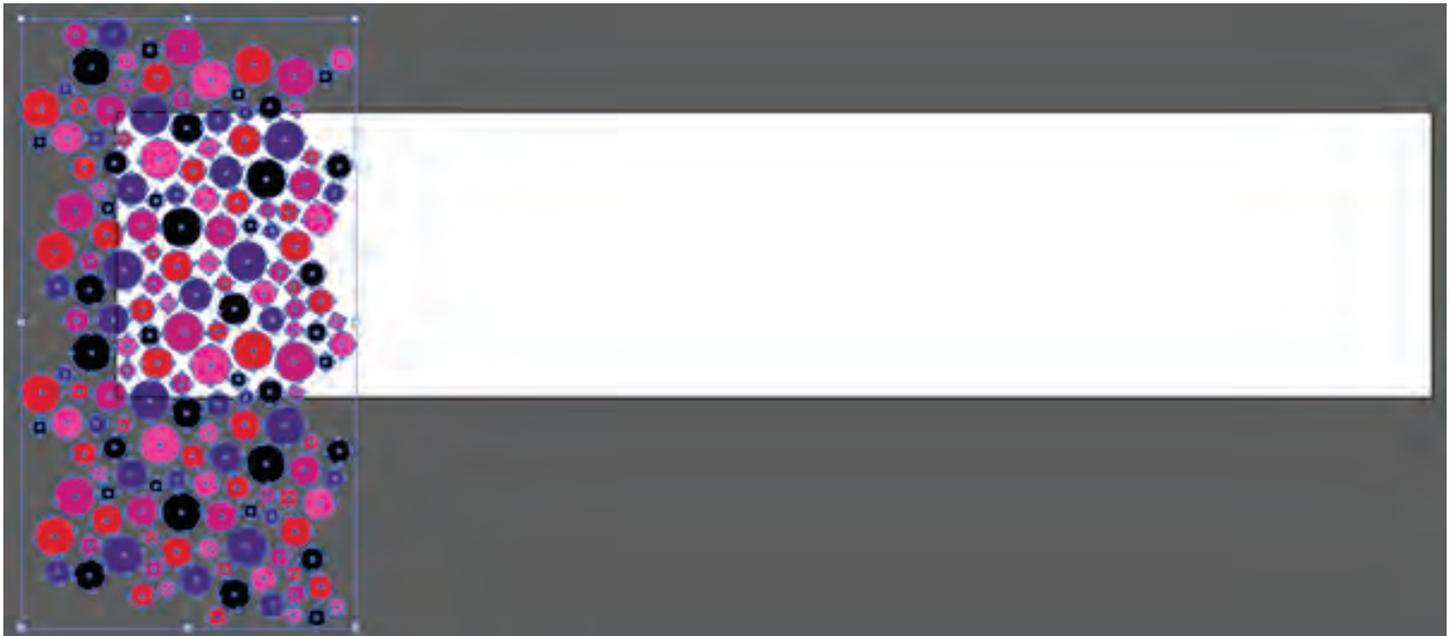
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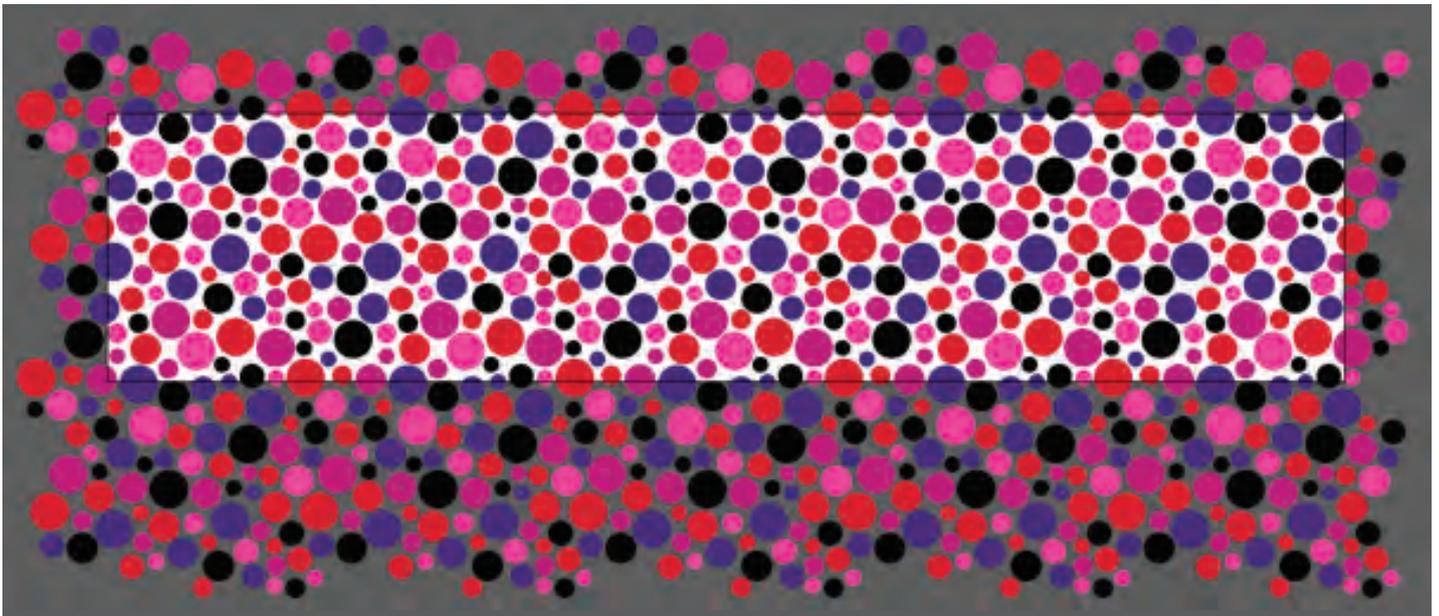
When you are satisfied with your repeat tile, you can set it up for printing. N.B. the following is relevant for digital printing only. To set this up follow screen printing would involve a few more steps. Position two repeat tiles (vertically) so they hang over the left side of the art board. Increase the artwork **WIDTH** to the width of the fabric (in this case 147cm), keep the **height** of the art board as the repeat size.



# DIGITAL FABRICS



Duplicate the selected objects across the width of the art board so it is covered completely. Tip: Once you have used the move tool to move the exact repeat size and clicked **copy**, ctrl D to duplicate the exact last action.



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# DIGITAL FABRICS



Save As a PDF. Even though there are objects hanging off the edge of the art board, because they have been moved the exact repeat size, they will all meet up when printed seamlessly. This is now your Full Width Repeat Tile which repeats top and bottom.

