

Creating Blocks of Four Quarter-square Triangles Without Cutting Triangles

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I discovered this technique when I became convinced there had to be a way to do this and started experimenting. I was very pleased when I got it worked out, and am happy to share it with you ☺

My goal was a block that looked like this, where the dashed lines just indicate the perimeter of each piece:



I wanted to be able to make this block with up to 4 different fabrics, let's call them A, B, C and D. So the block has a triangle of each of the four fabrics.

Leaving the suspense aside, here's how you do it without cutting any triangles.

If you want a finished block size of N'' , cut two squares of size $\left(\frac{(N + .5) * 1.4142}{2}\right) + .25$ of each of the four fabrics, A, B, C and D. So, if you are aiming for a finished block size of $6''$, the calculation is:

$$\left(\frac{(6 + .5) * 1.4142}{2}\right) + .25 = \left(\frac{6.5 * 1.4142}{2}\right) + .25 = \left(\frac{9.1923}{2}\right) + .25 = 4.85$$

So you will cut squares of $4.85''$. Feel free to round up to $5''$ and you can cut the resulting block down to $6.5''$ (what you need for a finished block size of $6''$).

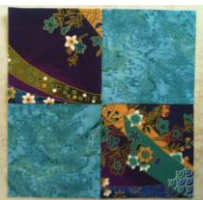
1. Create two four patches from the eight squares, looking like this:

A	B
B	A

C	D
D	C

2. Place the two blocks good sides facing. Sew a $\frac{1}{4}''$ seam all around the perimeter of the square.
3. Then cut the square along the two diagonals.
4. Press the 4 resulting blocks open and you have four blocks of quarter-square triangles with fabrics A, B, C and D in the quarter squares.

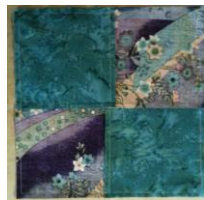
Step 1:



Step 2:



Step 3:



Step 4:



Finished:

