

WRAPPING PAPER BOW

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This origami work starts off with a variation on the traditional origami pin wheel, and looks at an infinite sequence that continues the pattern. They are all tessellatable.

This is a fold that you can do step by step, to some extent, in that you can fold to look like first stage, then second, then third, and so on. But you do need to fold a grid first, and then the diagonals needed - you can just about get away with creasing/folding diagonals as you go along, but it will look neater if you crease them first. After the first step, maybe easier to fold the rest from the back.

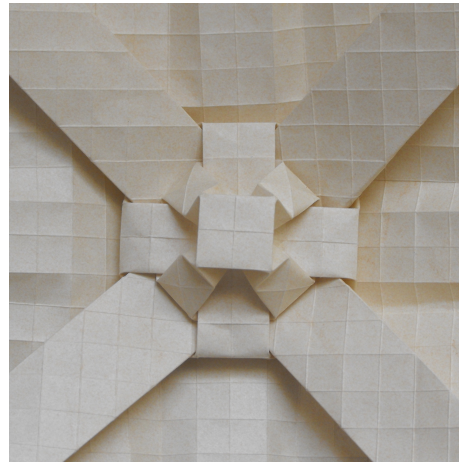
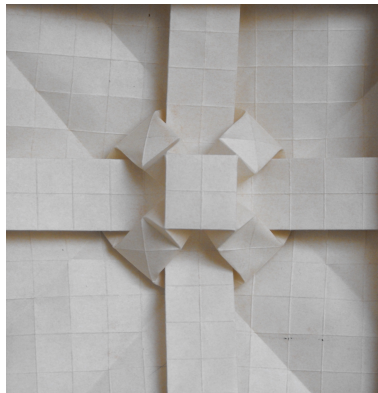
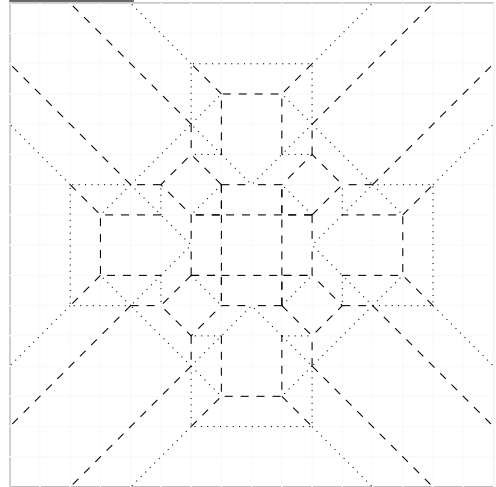
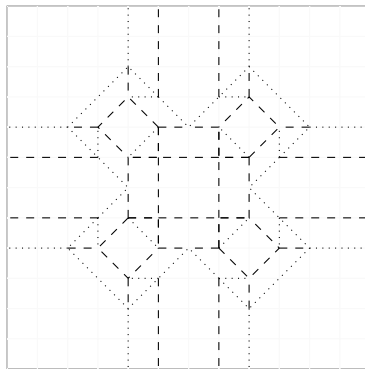
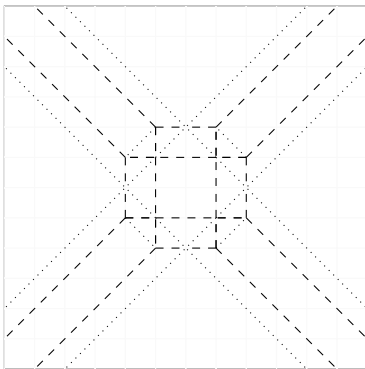
Here are crease diagrams for the first five stages - you could go on for as many steps as you have paper large enough for! At each stage, there is a piece which is scaled by a factor of $\sqrt{2}$ and rotated by 45° . There are four of these pieces, added rotationally symmetrically. This added piece looks like:



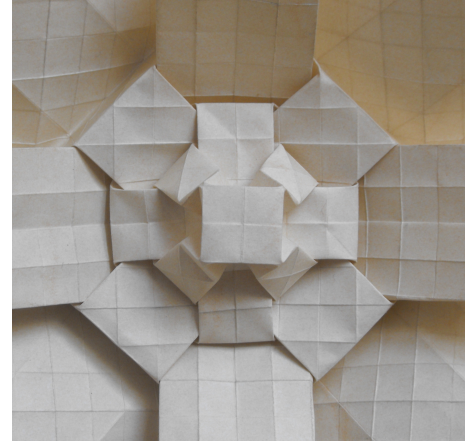
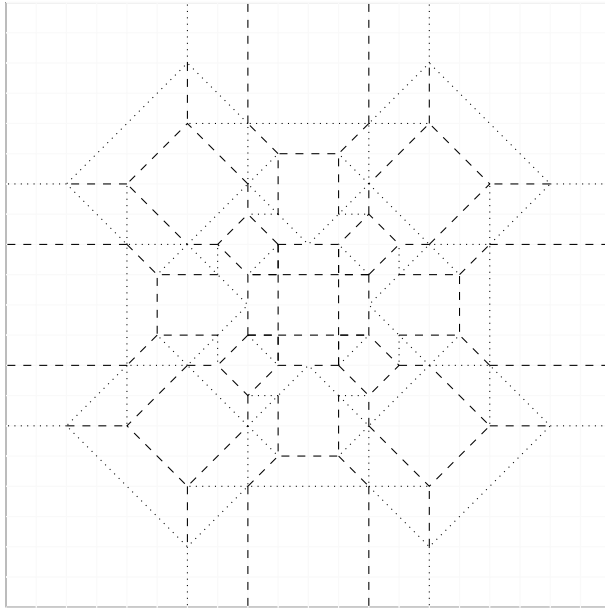
first step

second step

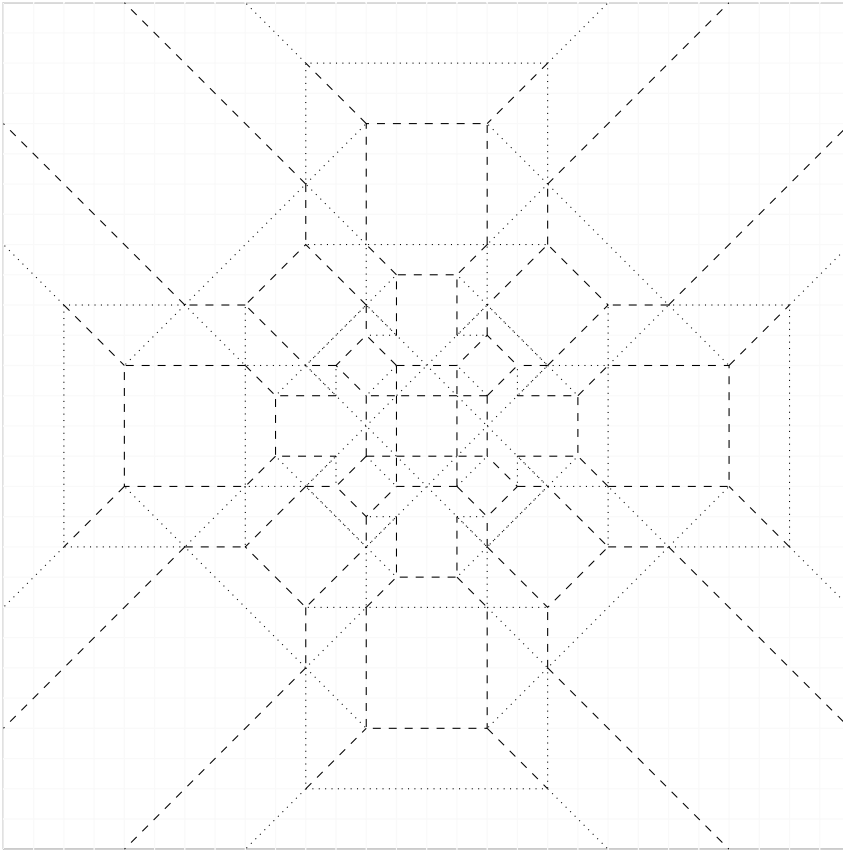
third step



fourth step



Fifth step:



These origamis can all be found in the following picture, which also includes a few other variations on the same theme.

