

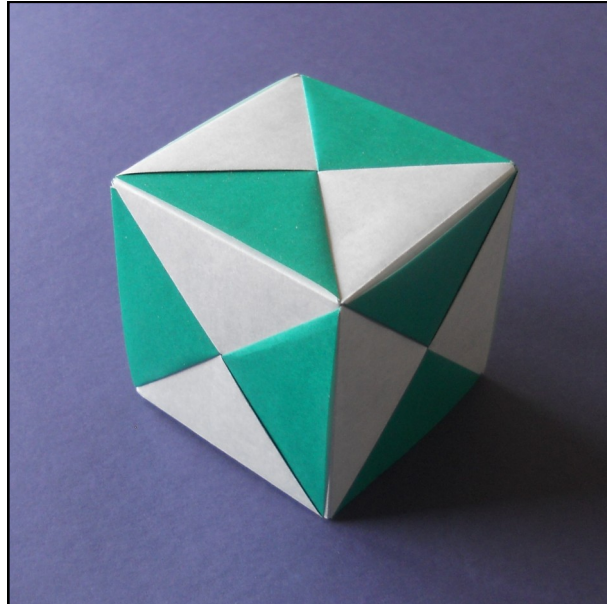
Darwin Diablo and Half Diablo

Motif Designs

Designed by David Mitchell

These diagrams show you how to fold Darwin Diablo and Darwin Half Diablo modules and use them to create 6-part cubes.

The diagrams show you how to make 6-part cubes using six squares of irogami of the same colour but you can, of course, use two squares in each of three colours, or any other colouring you choose.



Like all other parallelogram modules these modules can also be used to make more complex cubes, cube combinations and silverhedra.

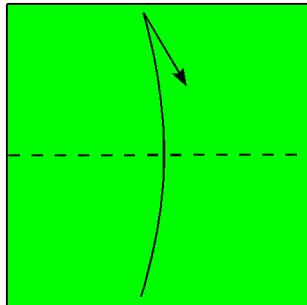
There are other ways to vary the basic Darwin module to make cubes of a similar design.

These modules and cubes were designed in 2001.

The Darwin Diablo and Half Diablo modules are both folded from a square which is first divided into a 3x3 grid. You will need another square of the same size to use as a template to help you achieve this division.

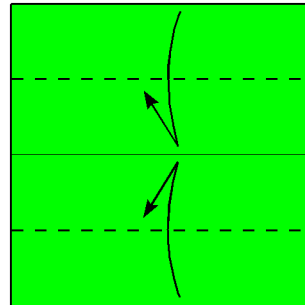
Folding the 3x3 Grid

1



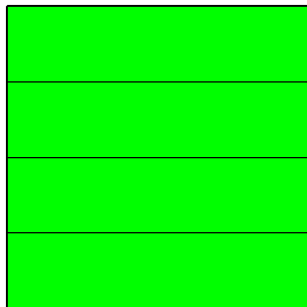
1. Fold the template in half upwards, crease, then unfold.

2



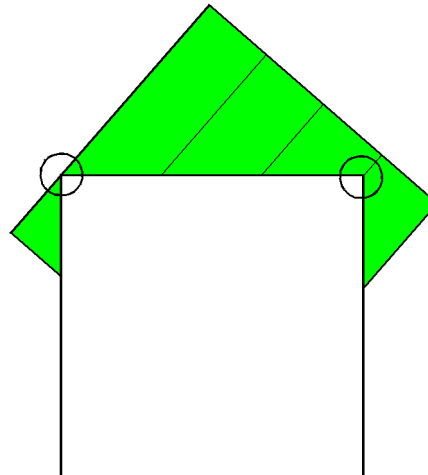
2. Fold both the top and bottom edges to the middle, crease, then unfold.

3



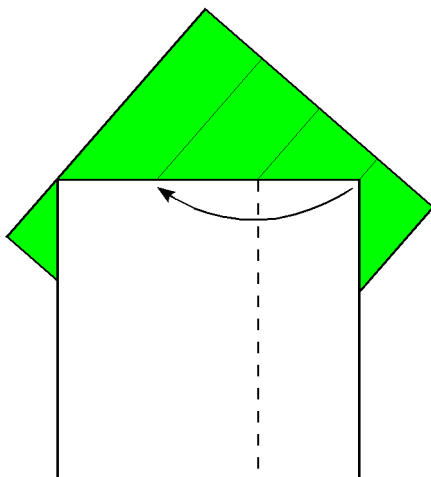
3. The template is finished.

4



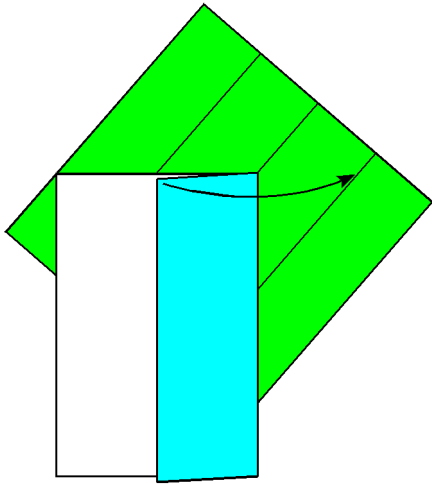
4. Begin by laying your square on top of the template like this, making sure the corners are aligned to the edge of the template and the crease in the way marked with circles here.

5



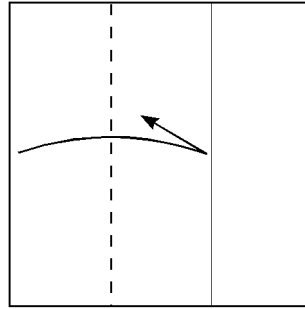
5. Fold the right hand corner inwards as shown. Make sure the two squares don't slip out of alignment as you make this fold.

6



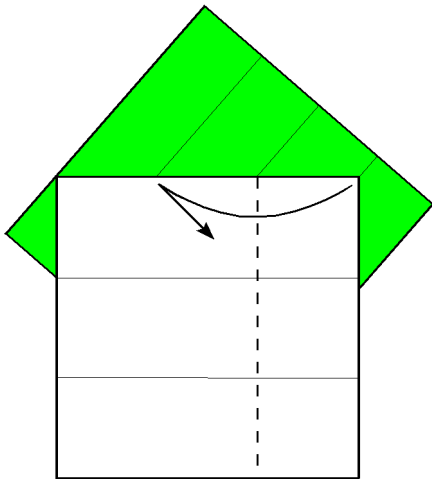
6. Open out the fold made in step 5 and remove the square from the template.

7



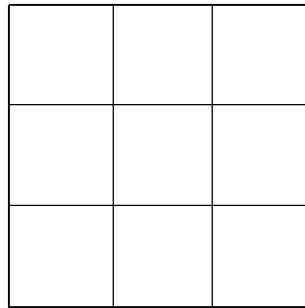
7. Fold the left hand edge onto the crease made in step 5, crease, then unfold.

8



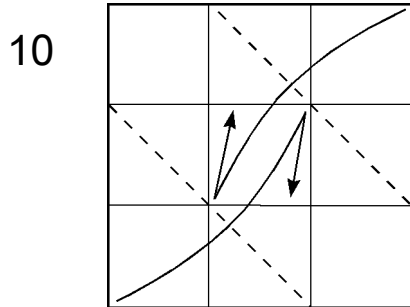
8. Your paper is now divided into thirds. To divide the paper into thirds in the other direction as well, rotate the paper through ninety degrees and repeat steps 4 through 7.

9

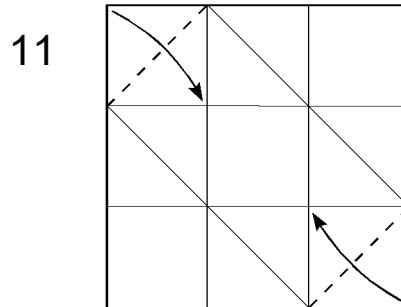


9. This is the result. The paper is now divided into a 3x3 grid of smaller squares.

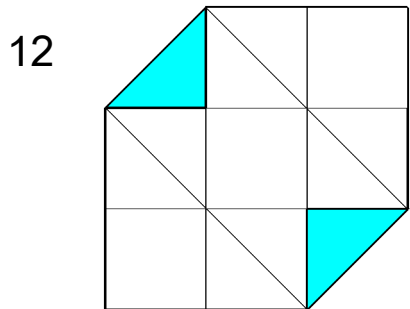
Folding the Darwin Diablo Module



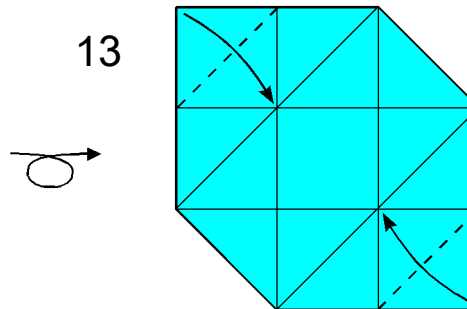
10. Fold the top right corner inwards as shown, then unfold. Do the same thing with the bottom left corner.



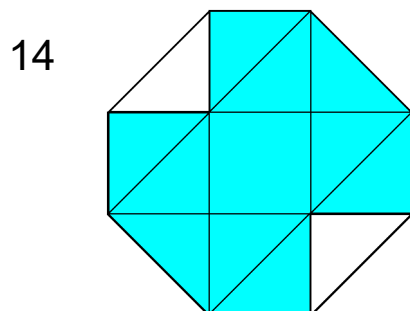
11. Fold two opposite corner squares in half diagonally inwards as shown.



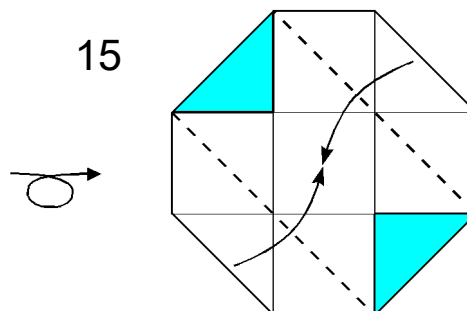
12. Turn over sideways.



13. Fold the other two corner squares diagonally in half inwards as well.

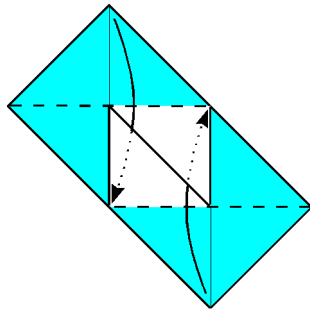


14. Turn over sideways.



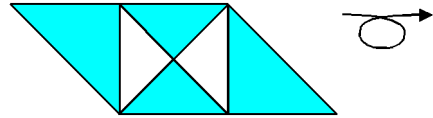
15. Use the creases made in step ten to fold the bottom left and top right sloping edges inwards.

16



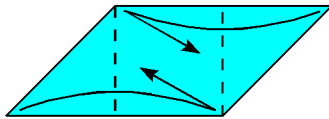
16. Fold the top and bottom corners inwards underneath the central flaps using the existing creases.

17



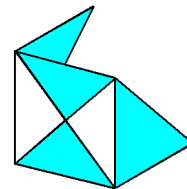
17. The basic module is finished. Turn over sideways.

18



18. Fold both the right and left points inwards as shown then open up to right angles.

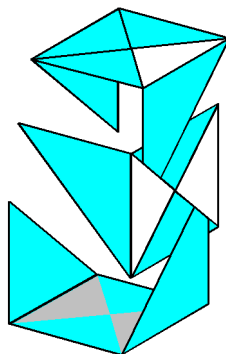
19



19. The finished module should look like this. You will need six to make a Diablo Darwin Cube.

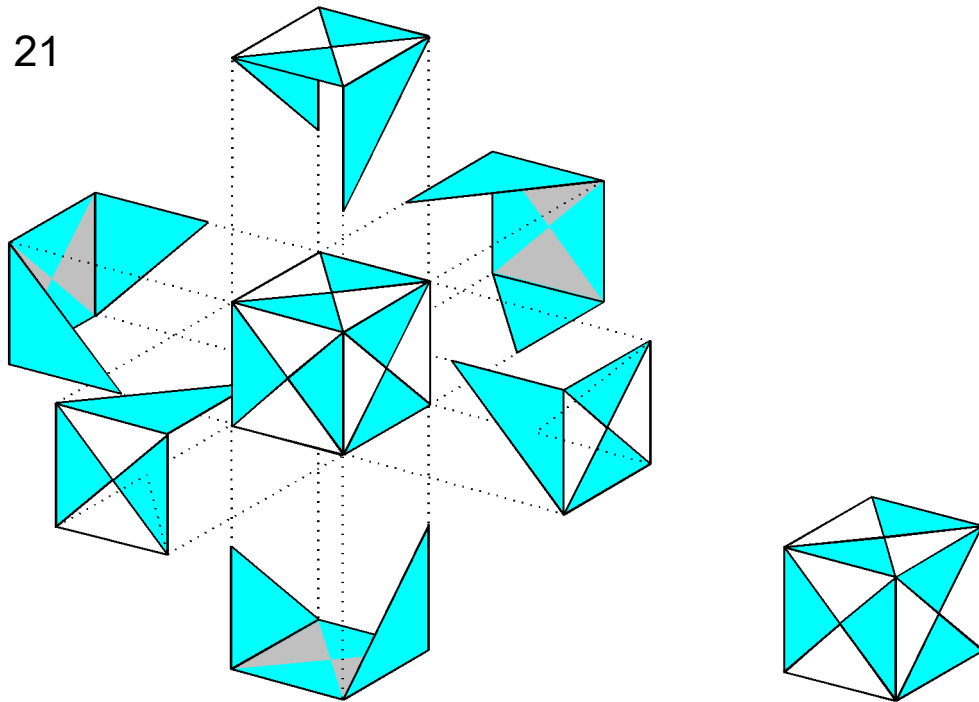
Assembling the Darwin Diablo Cube

20



20. Three modules go together like this to form one face of the cube.

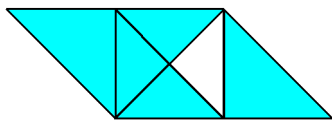
21



21. All six modules go together like this to create the finished Diablo Darwin Cube.

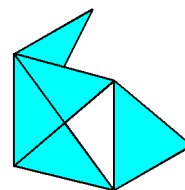
Folding and assembling the Darwin Half Diablo Cubes

22



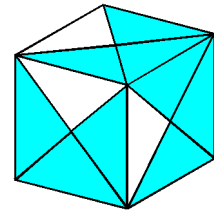
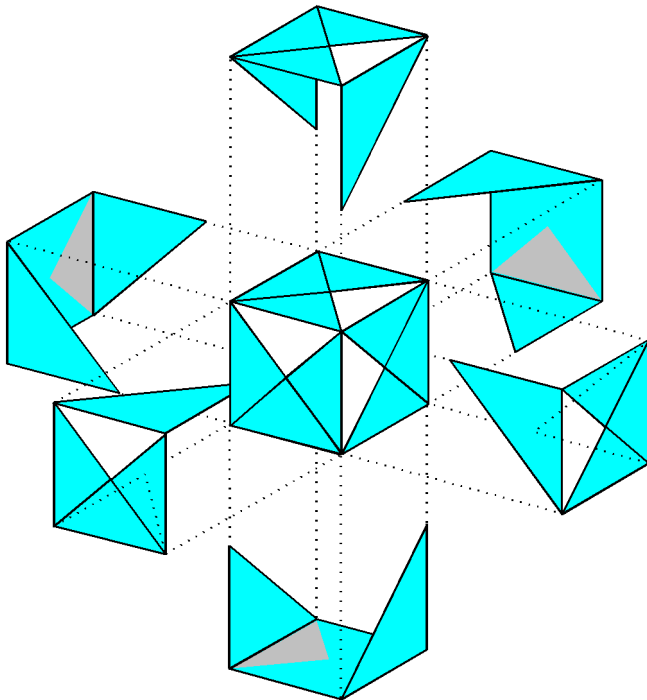
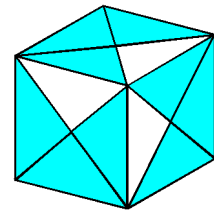
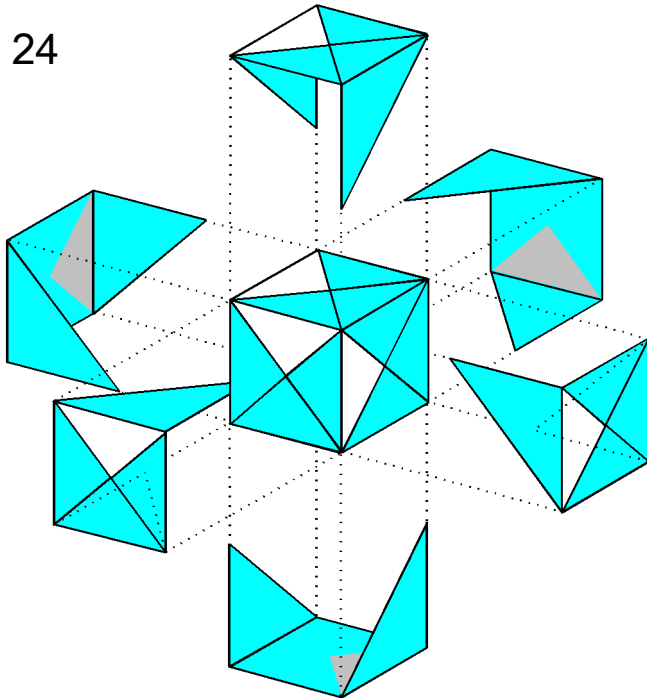
22. If you only fold one corner inwards in step 13 you will end up with a Darwin Half Diablo module that looks like this..

23



23. The finished Darwin Half Diablo module will look like this. Because this is an asymmetric module there are several ways to put six together to form a cube.

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