

Darwin Cyclone Motif Designs

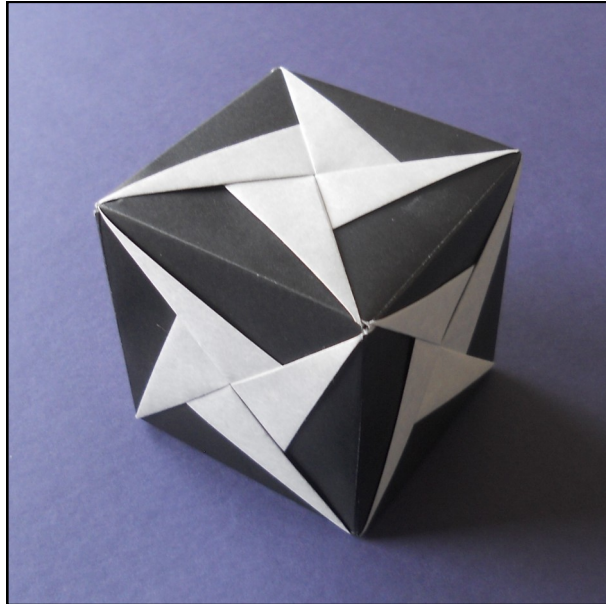
Designed by David Mitchell

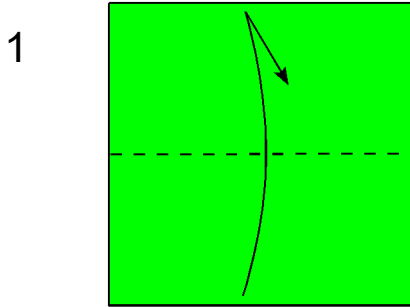
These diagrams show you how to fold the Darwin Cyclone module and how to use it to create a 6-part Darwin Cyclone Cube.

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

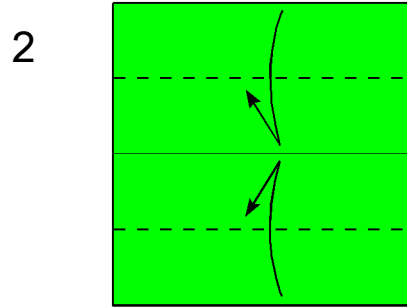
When I originally designed and published this module in 2001 I called it Windmill Cube no 2. The module has since been independently originated by both Aldos Marcell and Tadashi Mori and the 30-part 20-point Stubby Star assembly made using this module has become quite well known under the name Cyclone. I have adopted the Cyclone name, partly in order to avoid confusion, and partly because, as I am sure you will agree, it is a much better name.

The Darwin Cyclone module is 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.





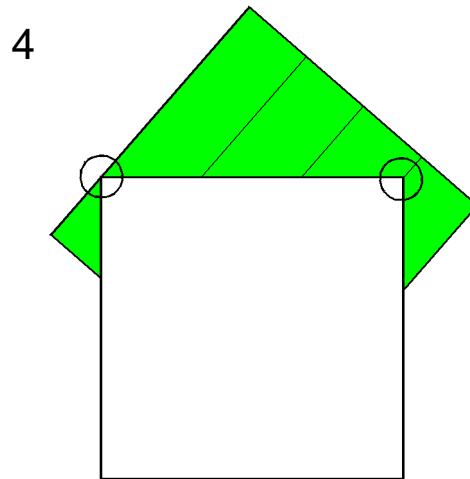
1. Fold the template in half upwards, crease, then unfold.



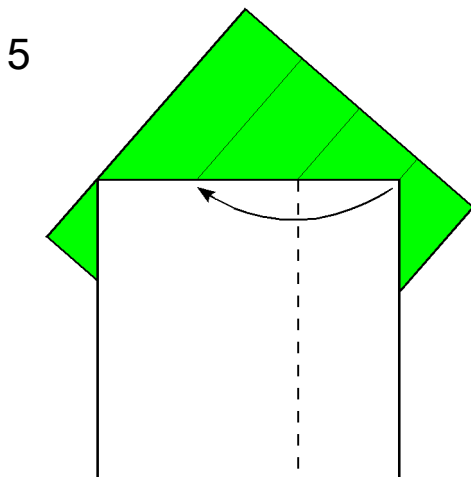
2. Fold both the top and bottom edges to the middle, crease, then unfold.



3. The template is finished.

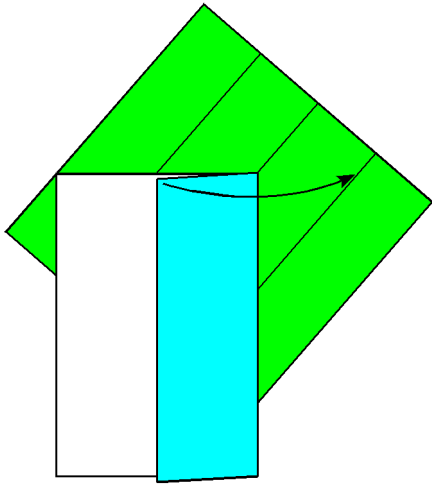


4. Begin by laying your square on top of the template like this, making sure the corners are aligned to the edge of the template and the crease in the way marked with circles here.



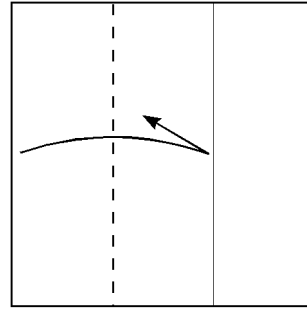
5. Fold the right hand corner inwards as shown. Make sure the two squares don't slip out of alignment as you make this fold.

6



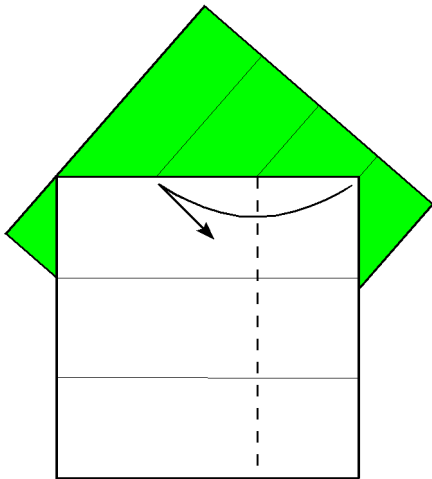
6. Open out the fold made in step 5 and remove the square from the template.

7



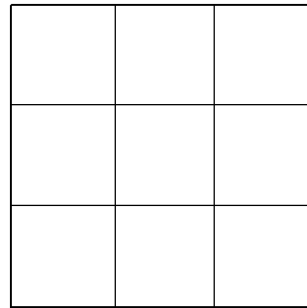
7. Fold the left hand edge onto the crease made in step 5, crease, then unfold.

8



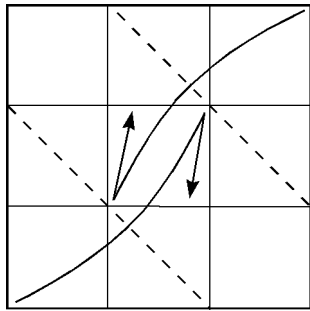
8. Your paper is now divided into thirds. To divide the paper into thirds in the other direction as well, rotate the paper through ninety degrees and repeat steps 4 through 7.

9



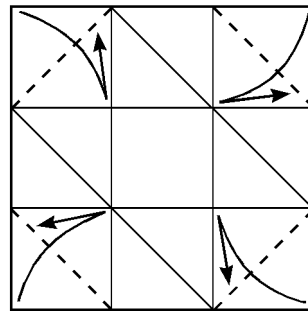
9. This is the result. The paper is now divided into a 3x3 grid of smaller squares.

10



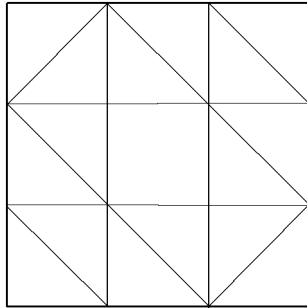
10. Fold the top right corner inwards as shown, then unfold. Do the same thing with the bottom left corner.

11



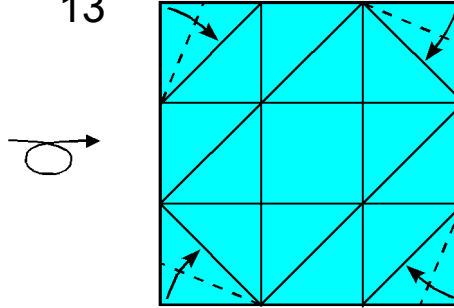
11. Fold all four corners inwards then unfold.

12



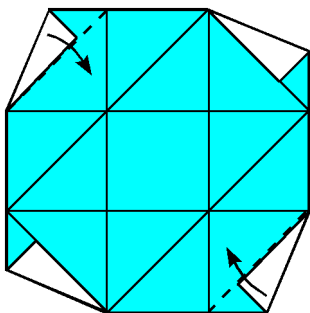
12. Turn over sideways.

13



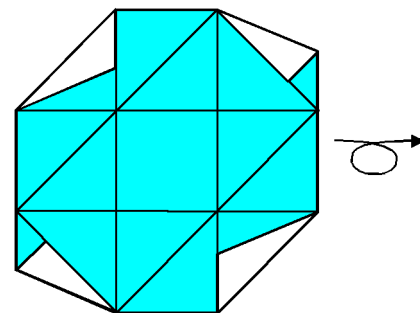
13. Fold all four corners inwards again like this.

14



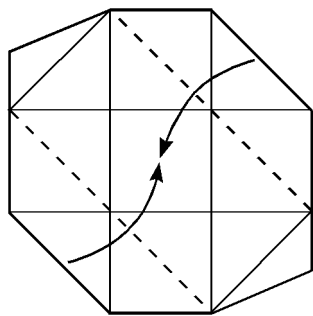
14. Fold two opposite corners inwards using the existing creases.

15



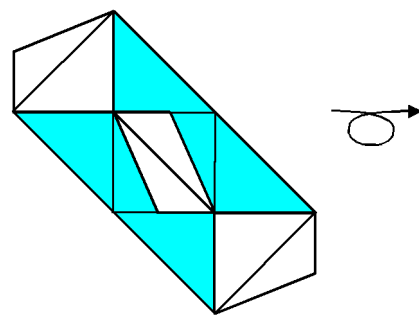
15. Turn over sideways.

16



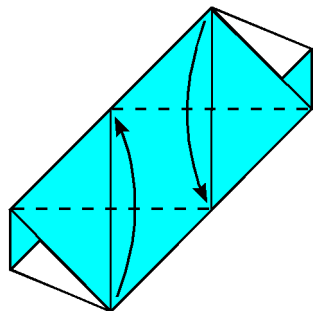
16. Fold the top right and bottom left sloping edges inwards using the existing creases.

17



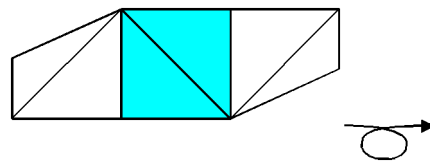
17. Turn over sideways.

18



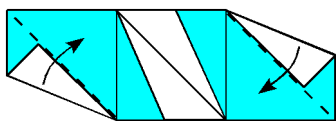
18. Fold the top and bottom corners inwards using the existing creases.

19



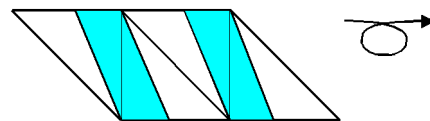
19. Turn over sideways.

20



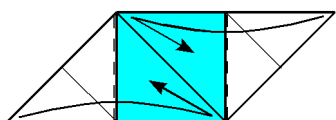
20. Fold the top right and bottom left corners inwards using the existing creases.

21



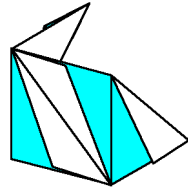
21. Turn over sideways.

22

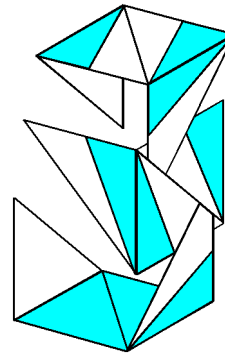


22. Fold the top right and bottom corners inwards then unfold at right angles.

23



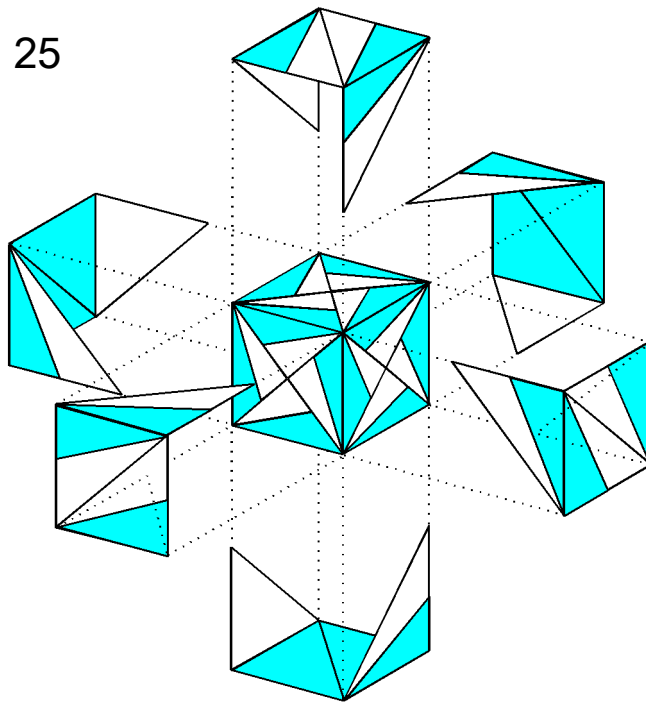
24



23. The module is finished. You will need six to make a Darwin Cyclone Cube.

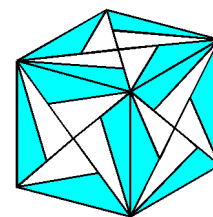
24. Three modules go together like this ...

25



25. ... and all six like this.

26



26. The Darwin Cyclone Cube is finished.

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