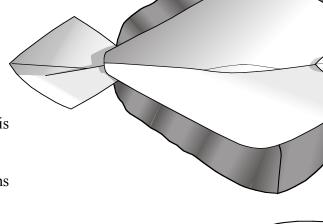
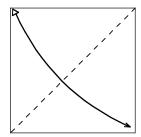
Flatfish

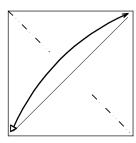
Designed by Bernie Peyton in 2014 Difficulty / High Intermediate Time to fold / 1 hour. Dimension / R=0.92 for length

Author's advice: Use a bi-colored square 15 cm to a side or larger. This model often is not flat and involves folding and unfolding. I encourage you to find your own folds for the fins after you have mastered these.

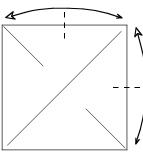




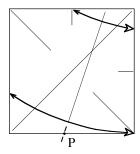
1. Valley-crease the diagonal on the light side of the square.



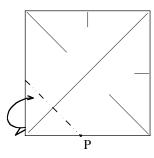
2. Mountain-crease the other diagonal except for its middle third.



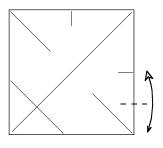
3. Valley-crease midpoints on two sides.



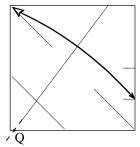
4. Place the bottom right corner on the left edge and right edge at the midpoint of the top edge. Crease the bottom edge at point P.



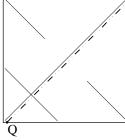
5. Mountain-fold and unfold the bottom left corner through point P.



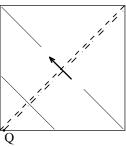
6. Bisect a distance with a crease on the right edge.



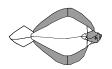
7. Place the top left corner on the right edge at the last crease and crease the bottom edge at point Q.

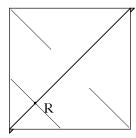


8. Mountain-fold and unfold through point Q parallel to the diagonal.

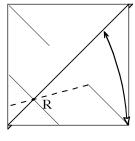


9. Pleat the square on the diagonal with this last mountain fold.

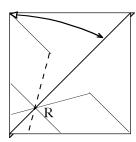




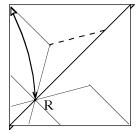
Define point R as the intersection of step 5 and the folded edge of the last step. This edge is the midline of the flatfish.



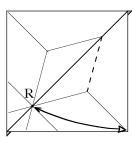
10. Place the bottom right corner on the flatfish midline and valley-crease through point R to the diagonal crease of step 2.



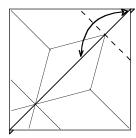
11. Do the same crease by placing the top left corner on the flatfish midline.



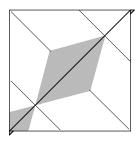
12. Place the top left corner on point R and valley-crease from the diagonal of step 2 to the flatfish midline.



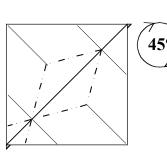
13. Do the same crease by placing the bottom right corner on point R.



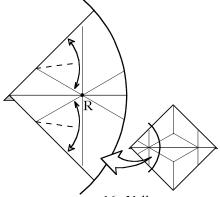
14. Valley-fold and unfold the top right corner through the intersection of the last two creases.



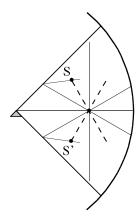
The shaded areas between the last 4 creases define the flatfish body and its tail.



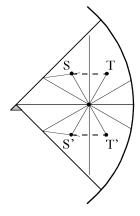
15. Change valley creases to mountain creases. Rotate 45 degrees clockwise.



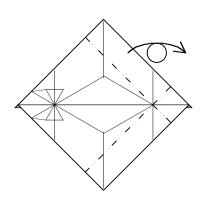
16. Valley-crease angle bisectors at the tail end.



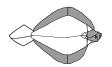
17. Valley crease other angle bisectors. The intersection of these and last two creases are points S and S'.

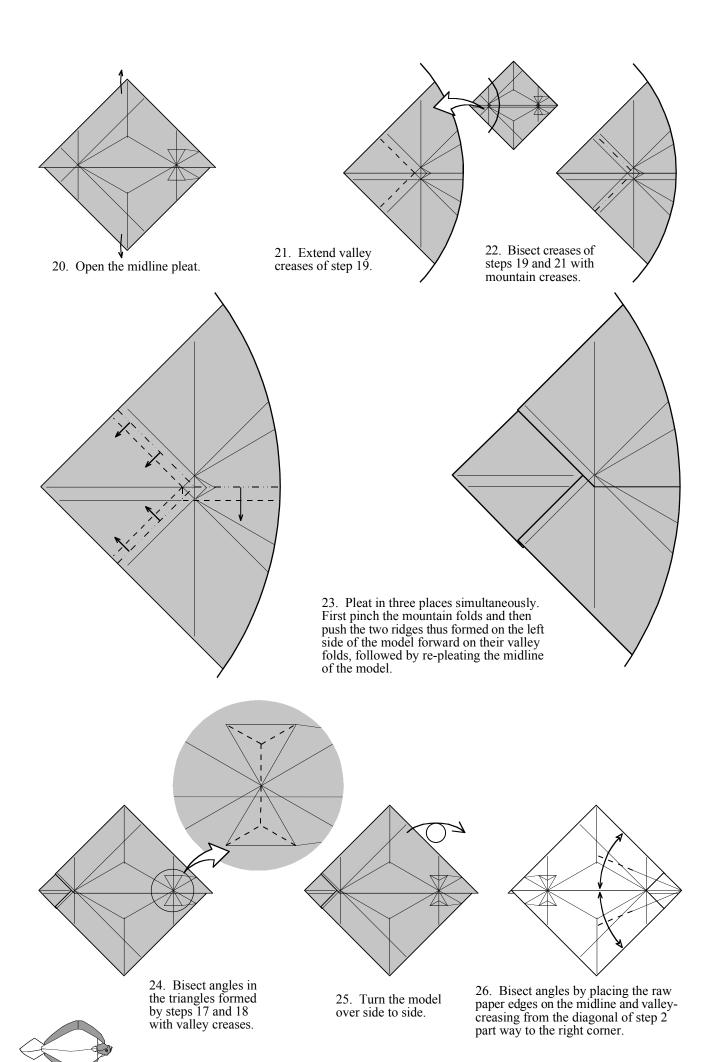


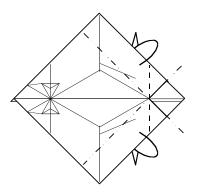
18. Valley-crease parallel to the midline from points S and S' to the angle bisectors at points T and T'.



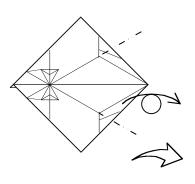
19. Mountain-crease through the intersection of steps 12 to 14. Turn the paper over side to side.



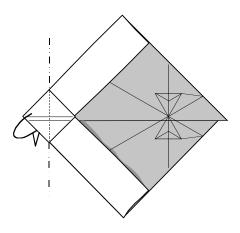




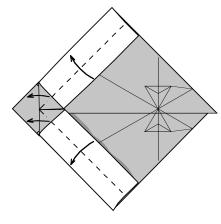
27. Preliminary-fold the right side on existing creases.



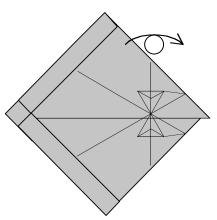
28. Extend mountain creases of step 15. Turn the model over side to side. The next view is enlarged.



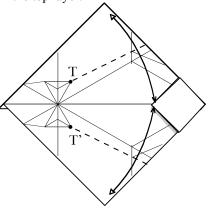
29. Mountain-fold the corner behind through all layers except the top layer.



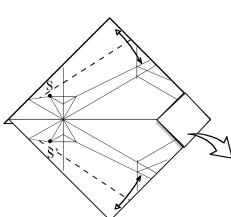
30. Fold the raw paper edges to the outside edges. Open up the pockets on the left side of the model and flatten them.



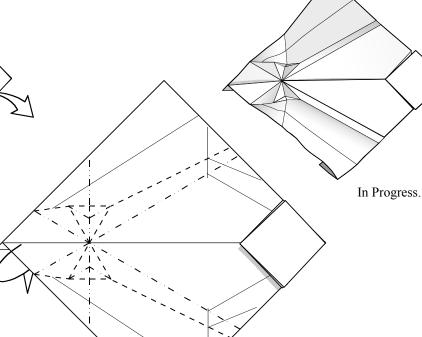
31. Turn the model over side to side.



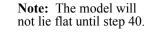
32. Place the corners to the midline and valley-crease through points T and T'.

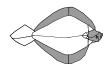


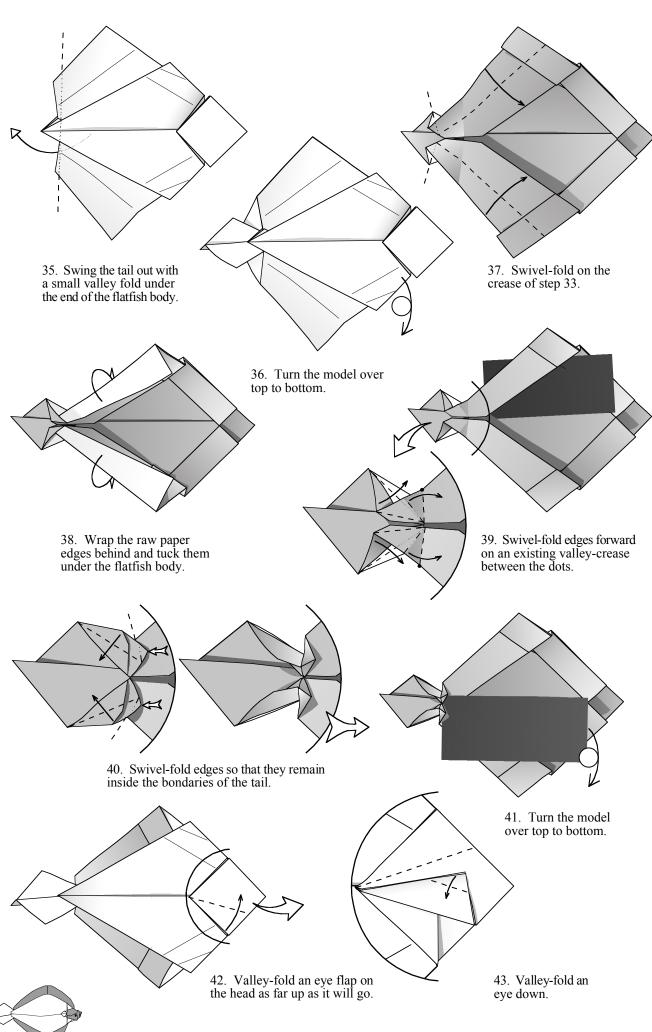
33. Valley-fold and unfold the same corners to the creases of the last step. The left side of these valley creases lie midway between the raw paper edges and points S and S'.

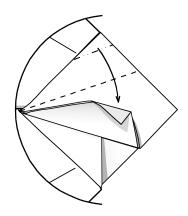


34. Collapse the model on existing creases. The tail will go underneath the body.

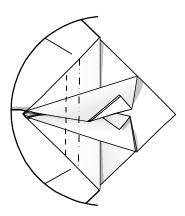




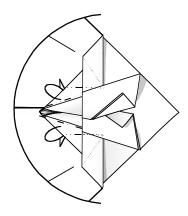




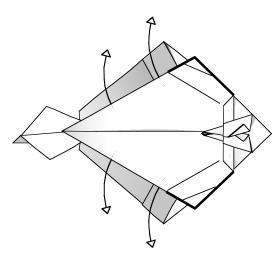
44. Repeat the last two steps on the other eye flap.



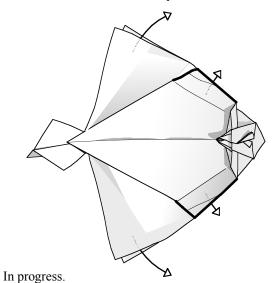
45. Pleat the pectoral fin.



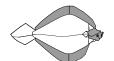
46. Swivel-fold to narrow the pectoral fin.

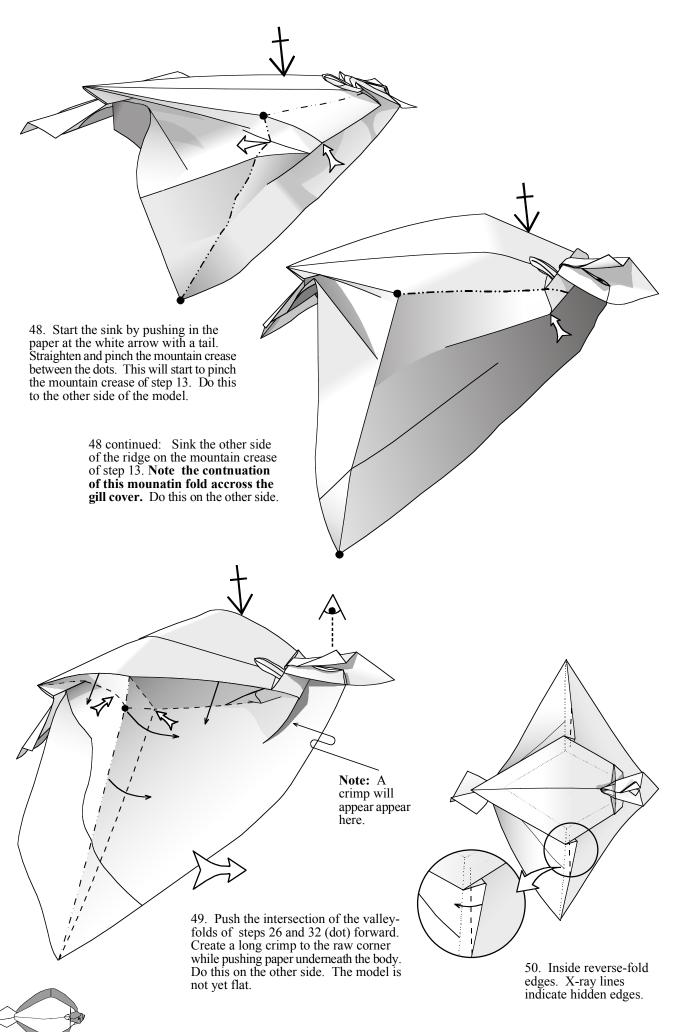


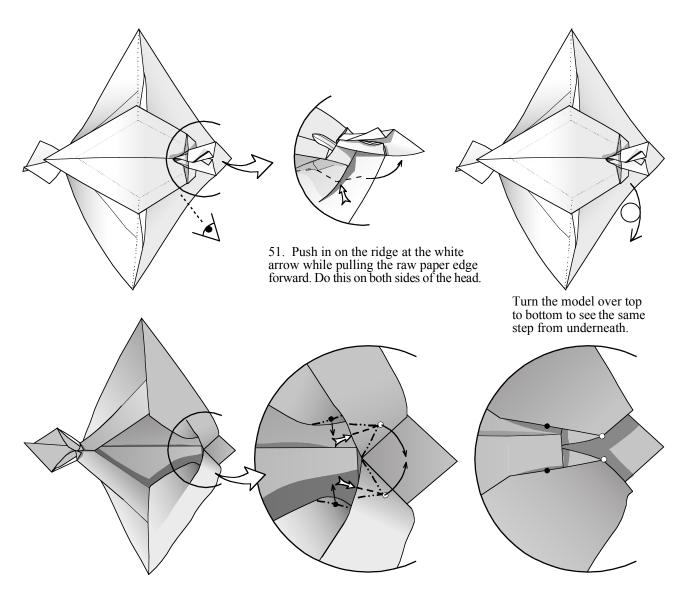
47. Pull out the paper under the flatfish body. The **dark lines** marks ridges you will closesink in subsequent steps.



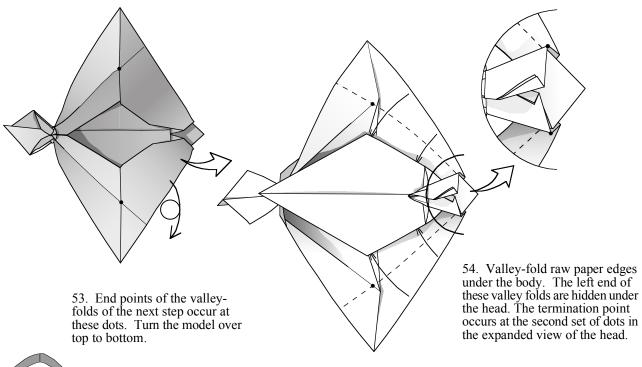
Note: In the next step you will re-crease the mountain folds of step 2, 12, and 13 that meet at the dots, and sink the dark shaded paper to define the body of the flatfish. The result is seen at the right. Let us look at this step from the side.



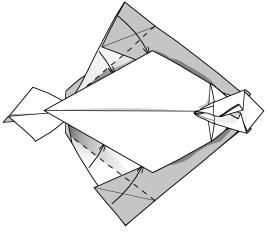


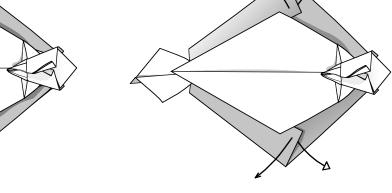


52. As you push the areas at the black dots inward (step 51), dent the edges by the white arrows and bring the spots marked by white dots toward the front of the head.



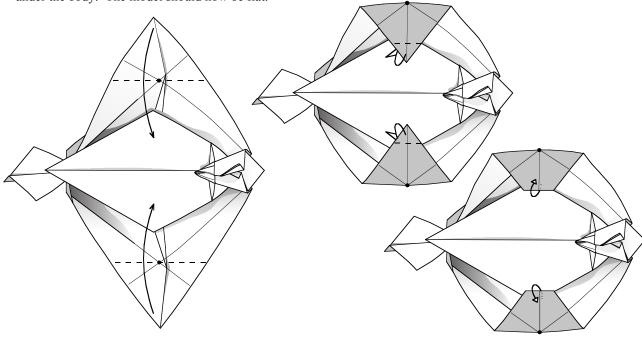






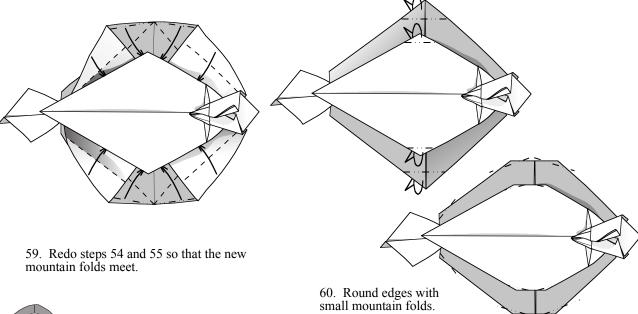
55. Redo the valley folds of step 33. Adjust folds if needed to enable the dorsal and anal fins to fit under the body. The model should now be flat.

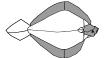
56. Unfold the last two steps.

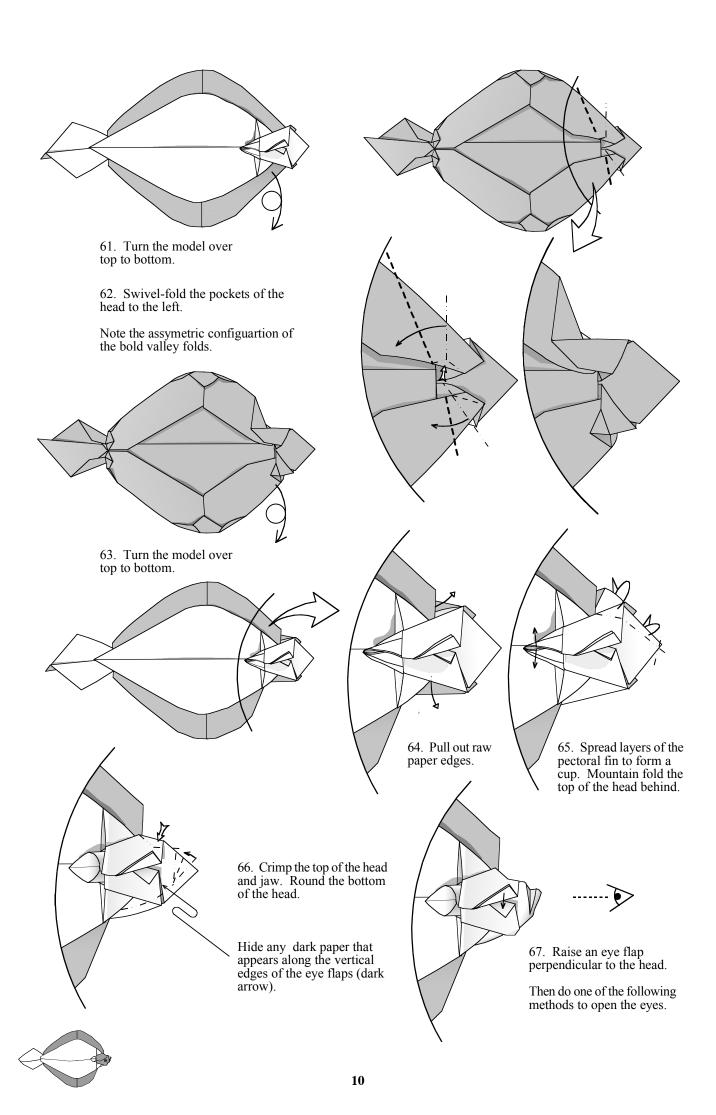


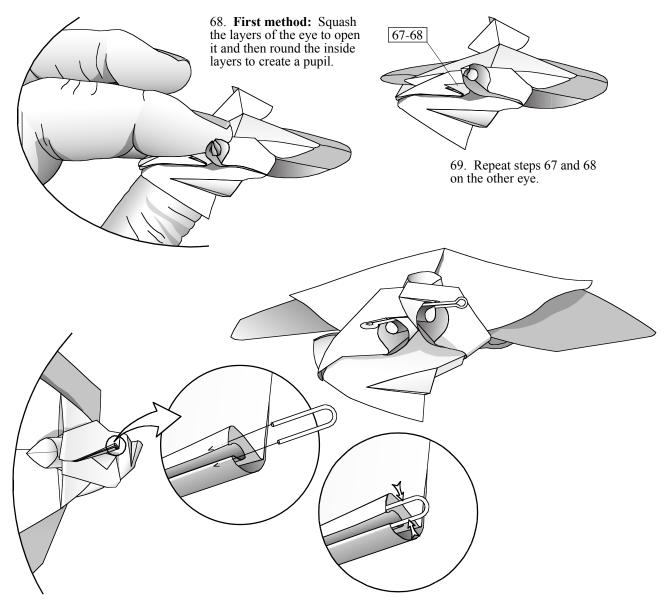
57. Valley-fold the corners through the intersection of the folds of steps 54 and 55.

58. Valley-fold corners behind, and tuck the folded edges under the body. Adjust the valley-folds as needed.









Second method: Insert a wire loop on either side of eye's inner pleat. Squeeze it shut and then shape the pupil by placing a round instrument inbetween its layers. Squash the back end of each eye as in the step above and shape the outer eye layers. I spray it lightly with water. Remove the wires when it is dry.

