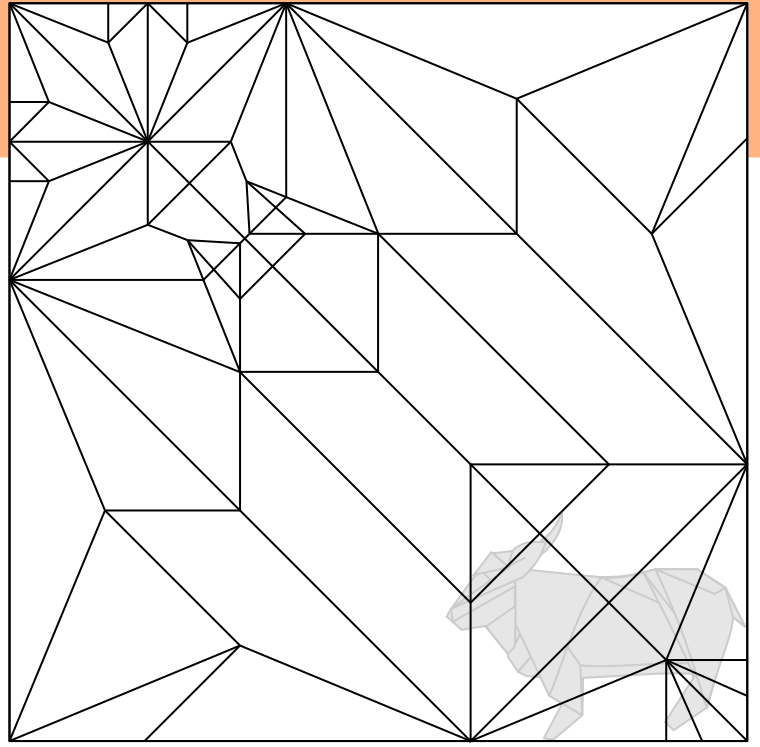


# Heilan Coo

(Scottish Highland Cow)



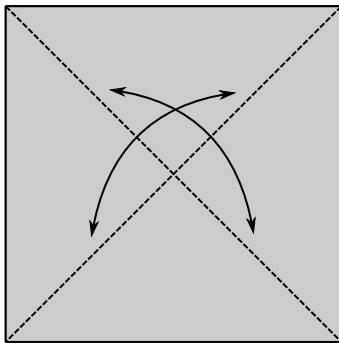
Design: Conor Nally (2023)

Difficulty: Complex

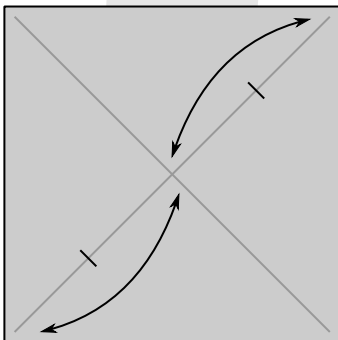
Recommended Paper Size: 20cm

I designed the bulk of this model on a round journey to speak at a conference at the Royal Astronomical Society. In an attempt to spend as little time as possible in London, I took a train with a five hour midnight layover in the Midlands. I bivvied on the platform next to the track and was periodically woken up by freight trains. This however gave me plenty time to lay out the basic structure of my highland cow.

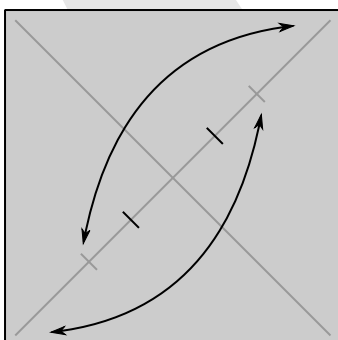
I recommend relatively thin paper the same colour on both sides.



1. Crease along the diagonals.

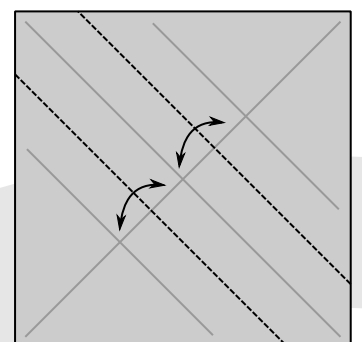
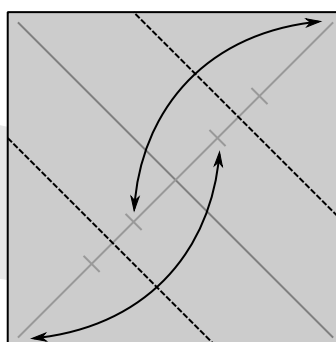


2. Mark the 1/4 points.



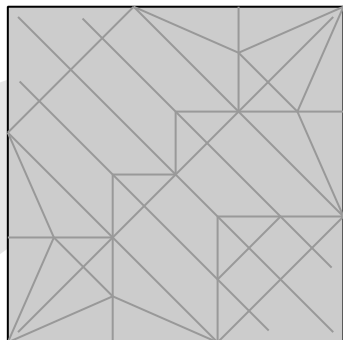
3. Mark the 3/8 points.

4. Crease from the corners to the 3/8 marks.

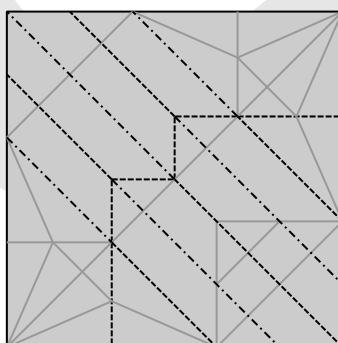


5. Crease half way between previous creases.

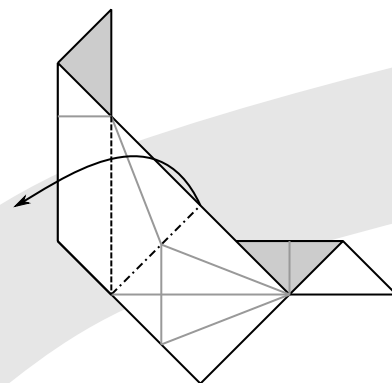
15. Resulting precreases.



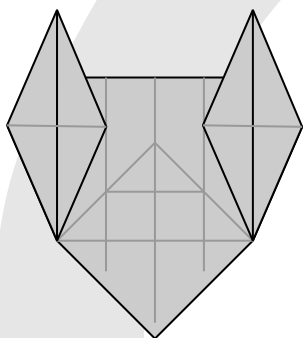
16. Collapse model.



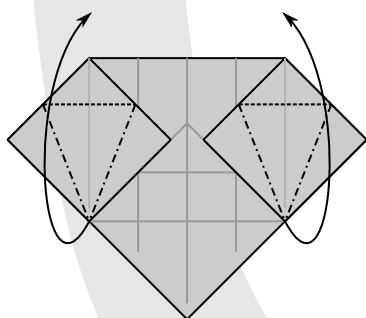
17. Squash large flap.



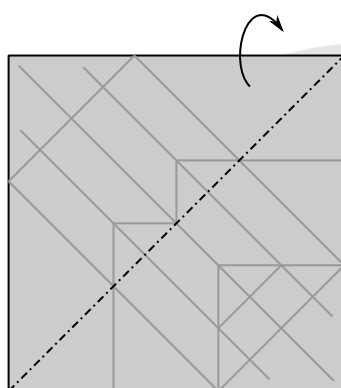
14. Unfold paper.



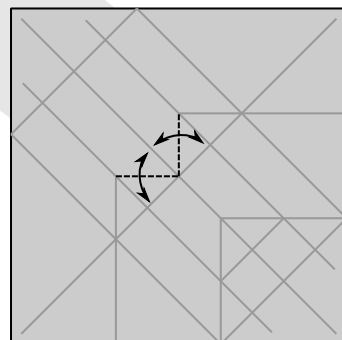
13. Petal fold each side.



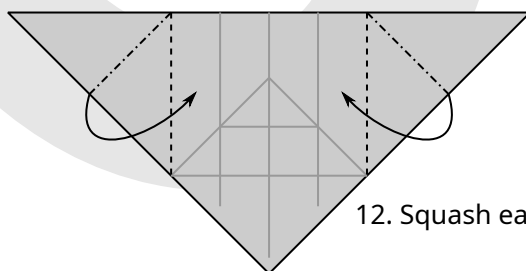
11. Fold along diagonal.



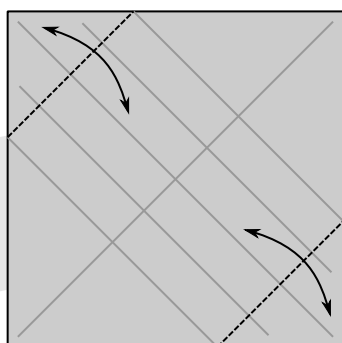
10. Crease between previous step creases.



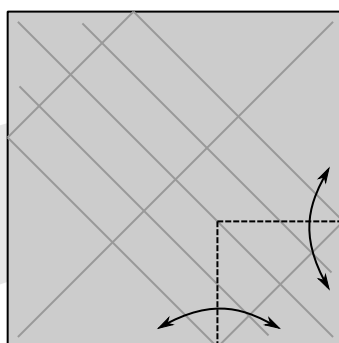
12. Squash each side.



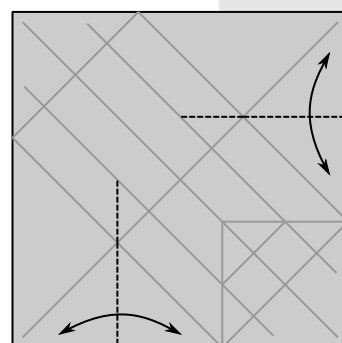
6. Crease between diagonals.



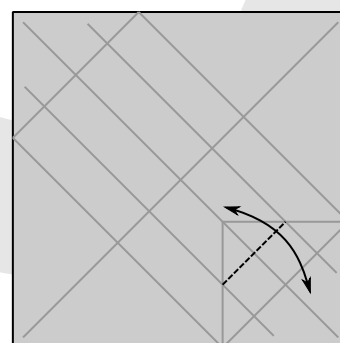
7. Crease between edge and middle diagonal.

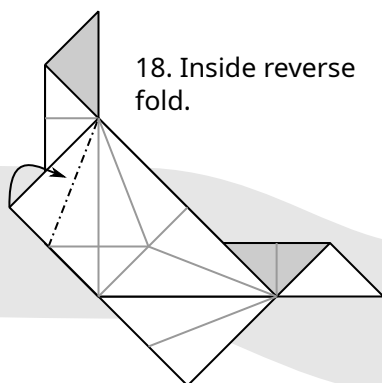


9. Crease between edge and diagonal.

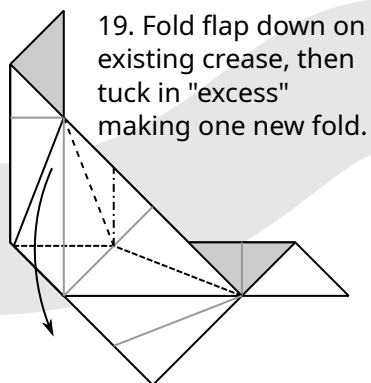


8. Crease between previous step creases.

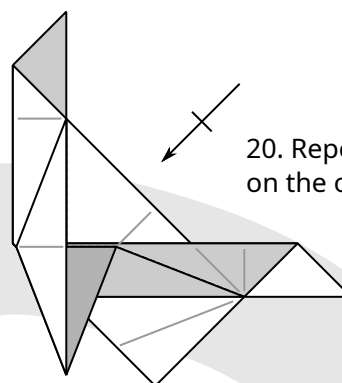




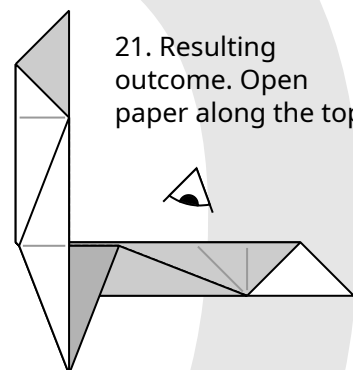
18. Inside reverse fold.



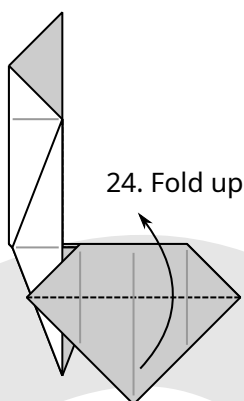
19. Fold flap down on existing crease, then tuck in "excess" making one new fold.



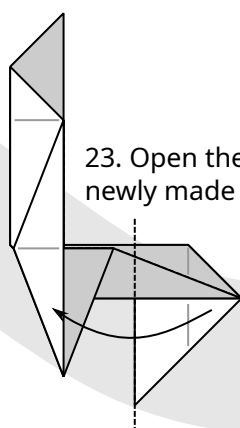
20. Repeat steps 17-19 on the other side.



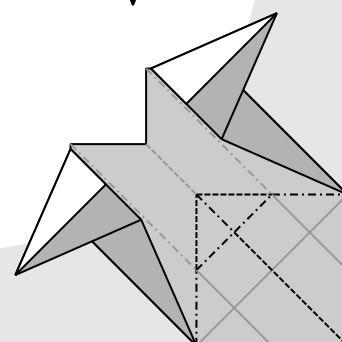
21. Resulting outcome. Open paper along the top.



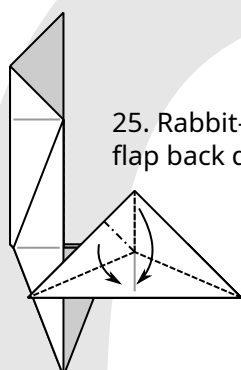
24. Fold up.



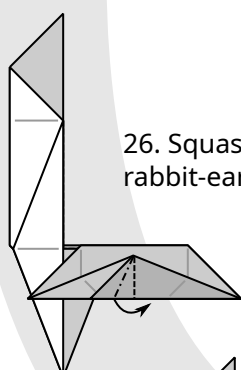
23. Open the newly made flap.



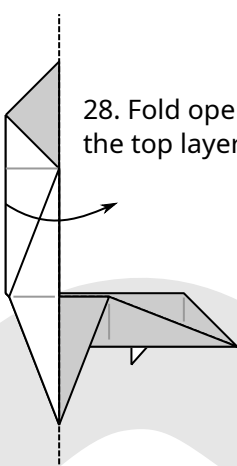
22. Viewed from above. Collapse the inside of the model along existing creases.



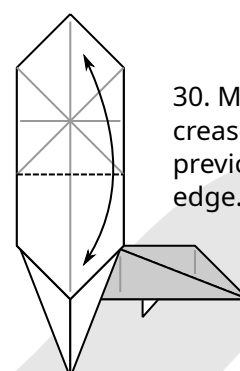
25. Rabbit-ear fold the flap back down.



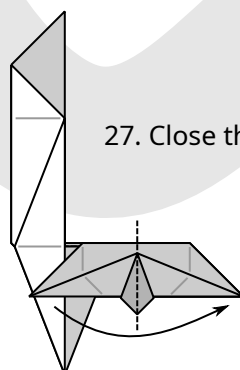
26. Squash the rabbit-ear.



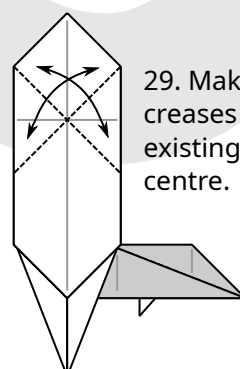
28. Fold open the top layers.



30. Make a horizontal crease where the previous step meets the edge.

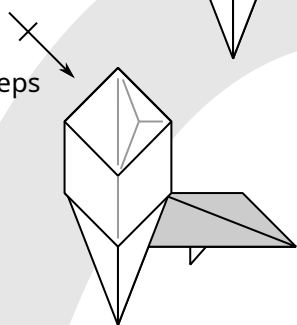


27. Close the flap.

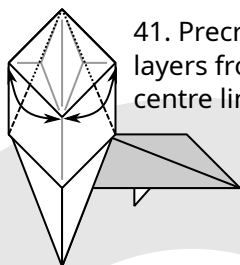


29. Make two diagonal creases intersecting the existing creases in the centre.

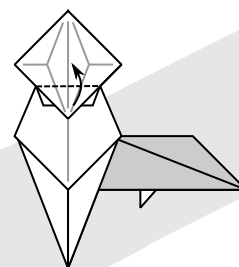
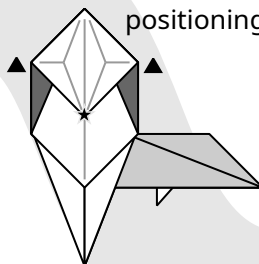
40. Repeat steps 37-39 on the other side.



41. Precrease the **bottom** layers from the edge to the centre line.

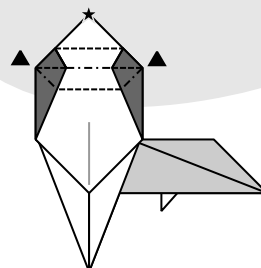


42. Simultaneously open sink the corners underneath. The top flap can be lifted out the way (see the positioning of the ★).

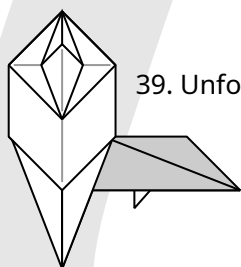


43. Fold up the new flap.

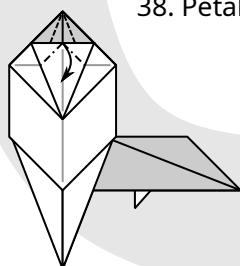
42. (in progress) A series of horizontal creases will be formed between the two areas being sunk.



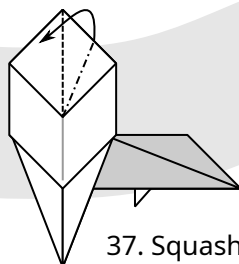
39. Unfold to step 37.



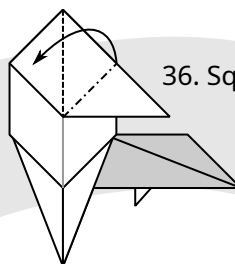
38. Petal fold.



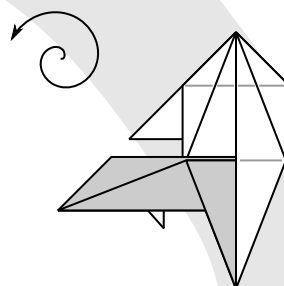
37. Squash the top flap.



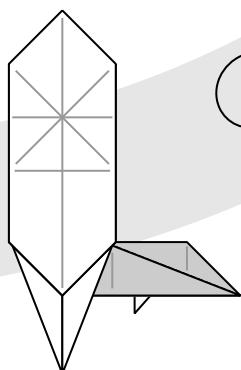
36. Squash the top flap.



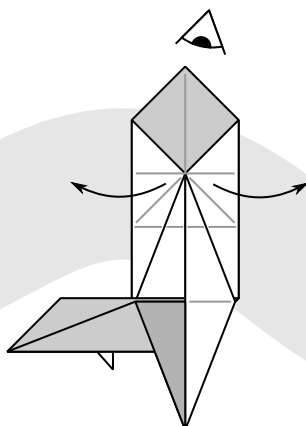
35. Turn the model over.



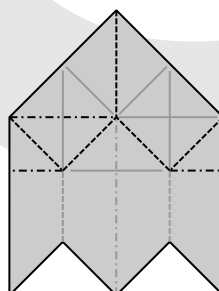
31. Turn the model over.



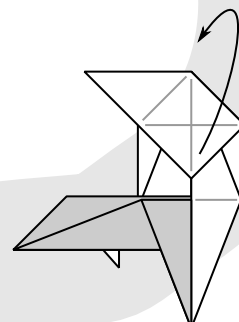
32. Open the layers and look from the top.



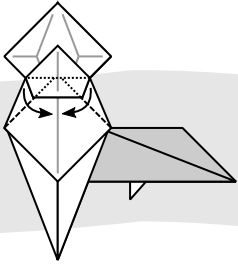
33. Viewpoint change. Collapse along existing creases.



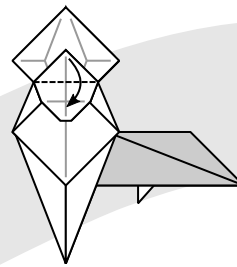
34. Fold the top layers over.



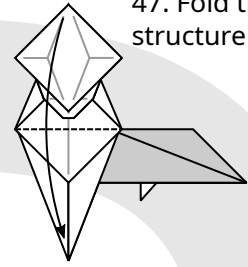
44. Fold the flaps underneath down towards (they won't touch) the centre line.



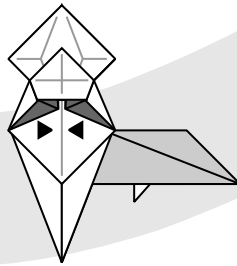
46. Fold the flap down.



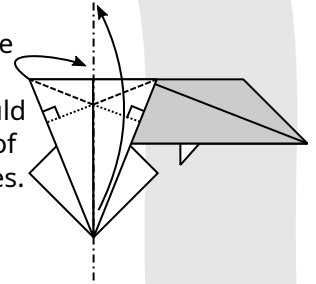
47. Fold the entire structure down.



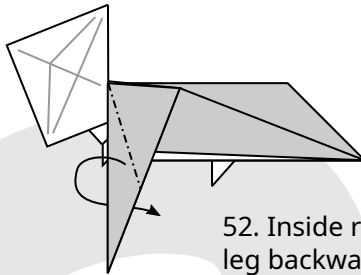
45. Open sink the flaps simultaneously.



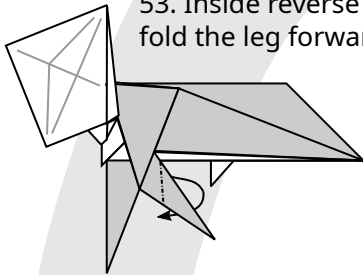
48. Rabbit ear the structure back up through thick layers. The diagonals should extend to reach the edge of the paper at ninety degrees.



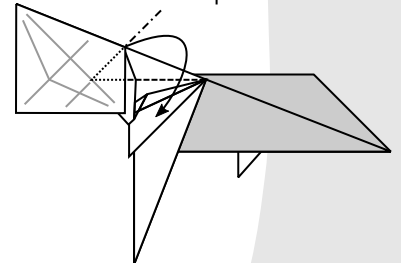
52. Inside reverse fold the leg backwards.



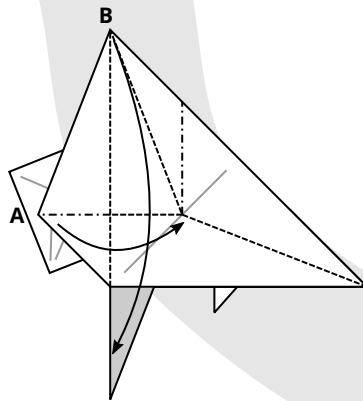
53. Inside reverse fold the leg forward.



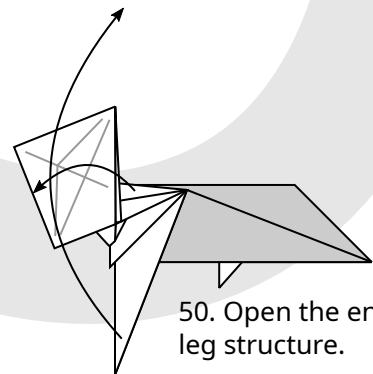
49. Swivel fold through thick layers.



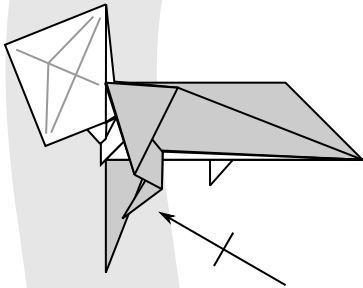
51. Close the structure along existing creases. First fold the corner marked **A** in, then fold **B** down, tucking the excess into the pocket just created.



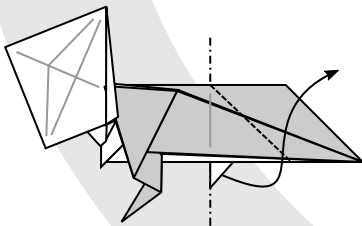
50. Open the entire leg structure.



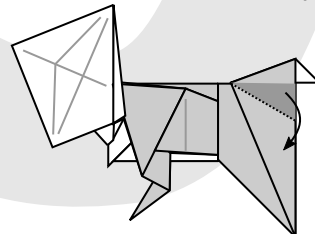
54. Repeats steps 50-53 on the other side.



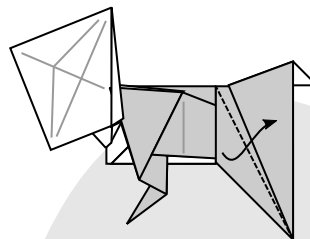
55. Swivel the entire back leg structure down.



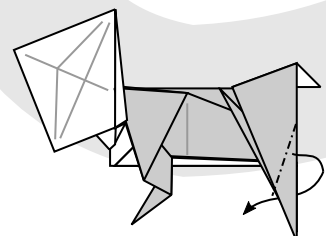
56. Fold the internal flap down.



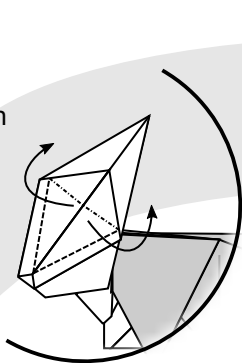
57. Thin the legs by tucking the flap into the pocket.



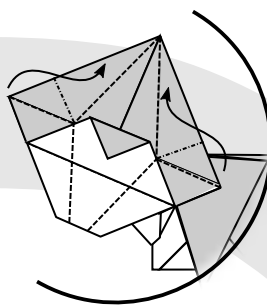
58. Inside reverse fold the hind leg forward.



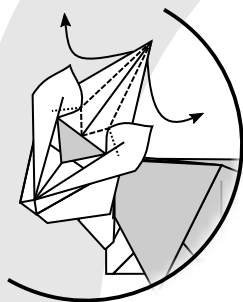
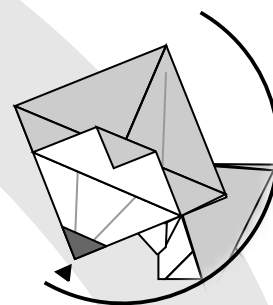
67. Swivel some of the paper back out to form ears (no reference). These will be three dimensional.



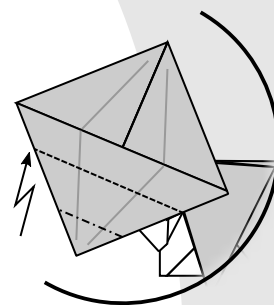
66. Rabbit-ear fold the edges into the centre.



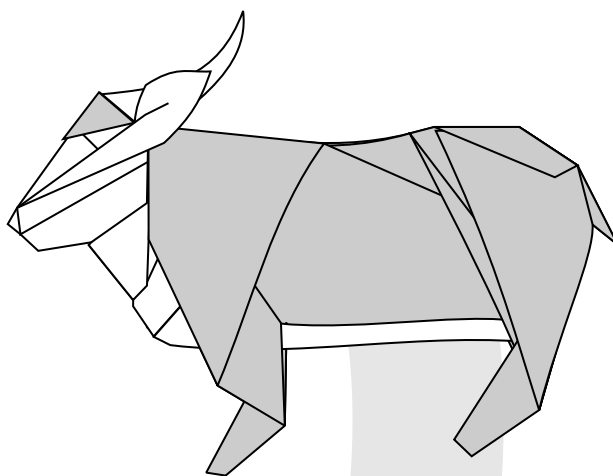
65. Open sink the tip of the structure inside (no reference).



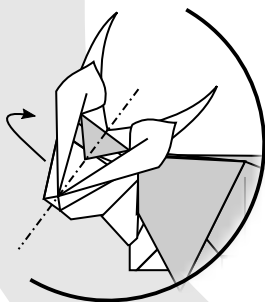
68. Rabbit-ear fold the horns out.



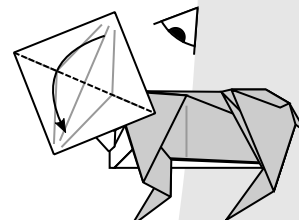
64. Pleat the top flap up (zoomed in view).



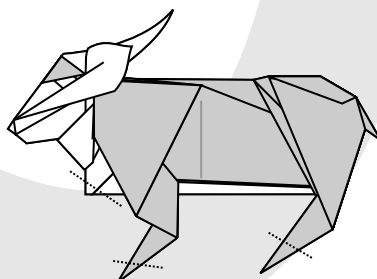
71. Model complete.



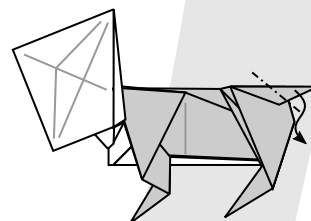
69. Fold the head over down the centre line.



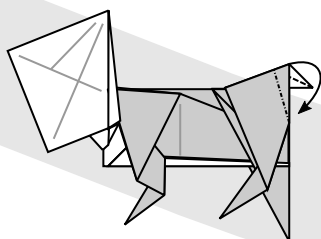
63. Fold the top layer down.



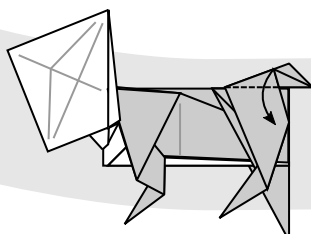
70. Inside reverse fold the sharp edges and shape body to taste.



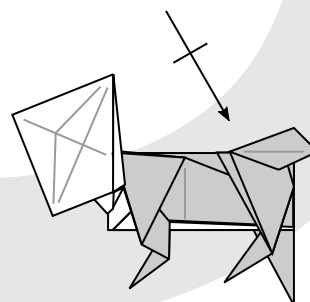
62. Inside reverse fold the tail down.



59. Swivel part of the flap inside the body.



60. Fold the flap down.



61. Repeat steps 57-60 on the other side.