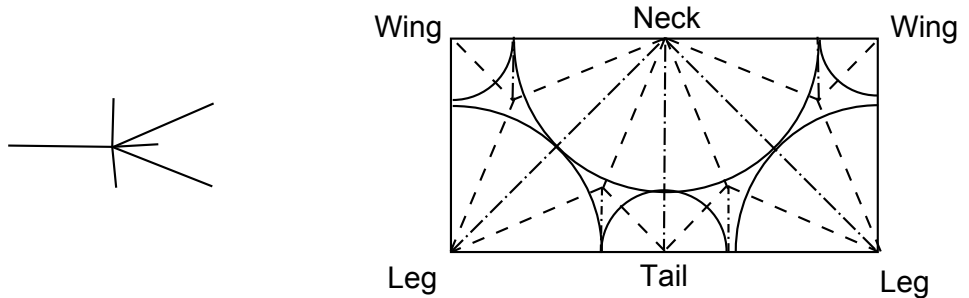
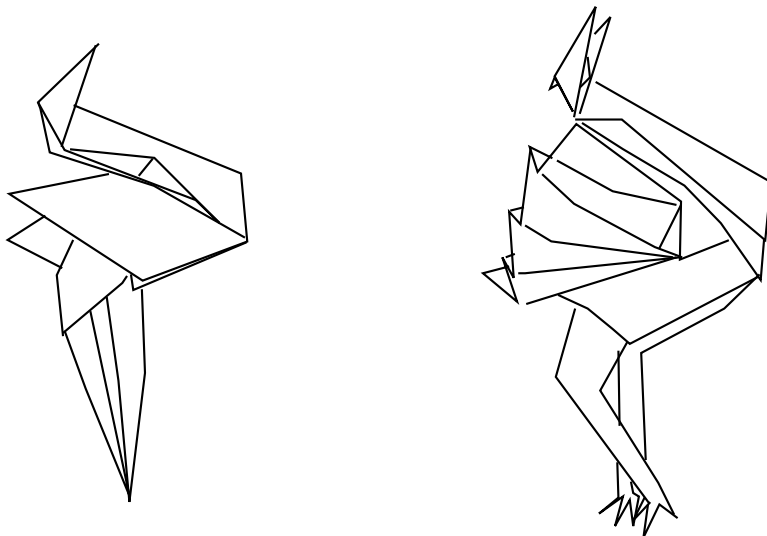


## A study of Tancho Zuru by Roman Diaz .

In the book *Origami for Interpreters* Roman Diaz has given crease diagram and drawing of finished model on page 158. This is an example of elegant use of border graft (O.D.S. page 133). The structure of the fold consists of two legs and neck of equal length and wings and tail of much smaller length. Corresponding stick figure is given below. This can be folded from 1X2 rectangle. Circle packing and crease diagram is given below. Each of the square is folded into a fish base and those

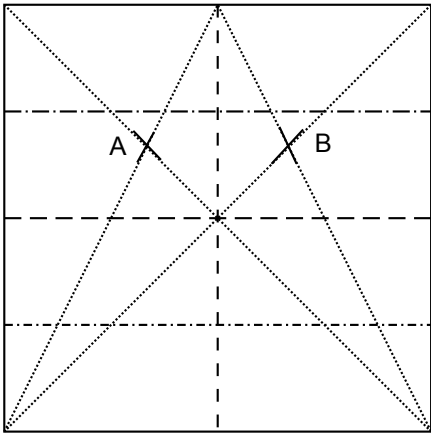


two are joined on one side to give 1X 2 rectangle. Folding this is very simple and can be done taking guidance from full step by step procedure given at end. Folded figure is given on left.

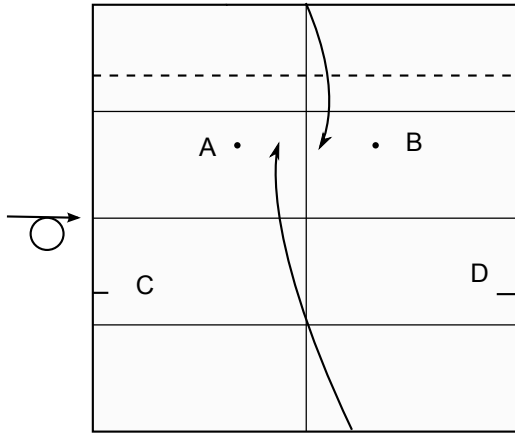


It can be seen that the required structure is incorporated. Now top border graft gives additional paper for wings and head. Thus we can make spreadout wings and add parted beak at top. The bottom graft adds paper to enable us to fold toes for legs and also extra paper for spreading out tail.

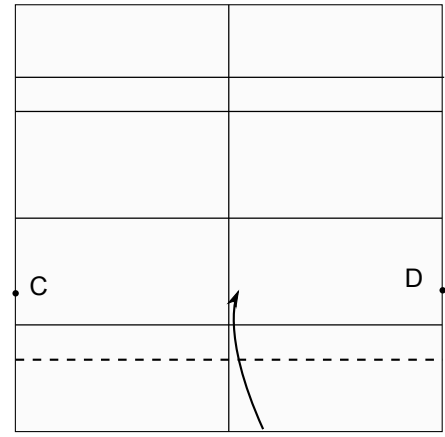
Variation - It is not necessary that top and bottom grafts should be of equal width. We can shift position of central 1X 2 rectangle to change width of these grafts. If we shift the position by  $\frac{1}{16}$  th of paper width we get extra paper for head and wings. There is a corresponding reduction in width of paper available for toes and tail. Now if we divide top  $\frac{5}{16}$  width into 6 parts it becomes too wide. Hence we divide it into 8 parts. This extra pleat makes it possible to have an extra flap for eyes.



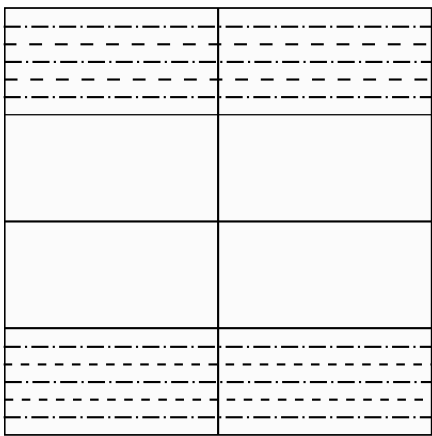
1 White side up. Crease as shown  
A and B are pinches only. Turn over



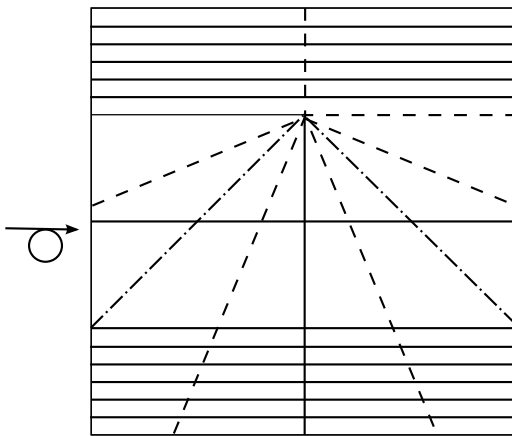
2 - Fold and unfold top raw edge to A-B  
Bring bottom raw edge to A-B and  
only pinch at C and D.



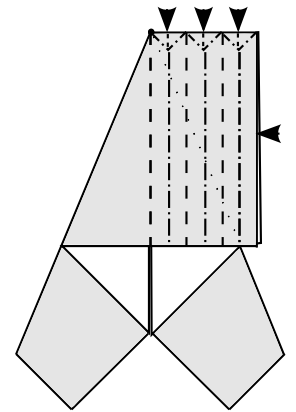
3 - Fold and unfold bottom edge to  
C-D .



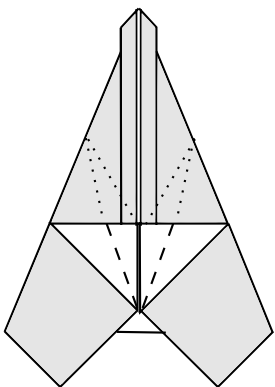
4 Pleat as shown. Open. Turn over.



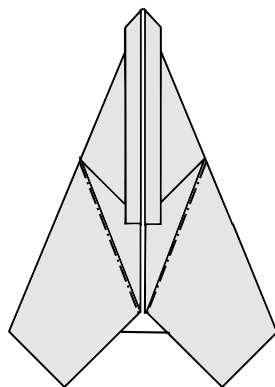
5 Collapse creasing as shown



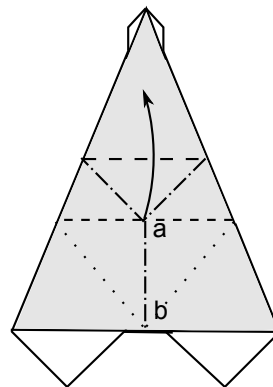
6 - Collapse top portion by  
pleatin



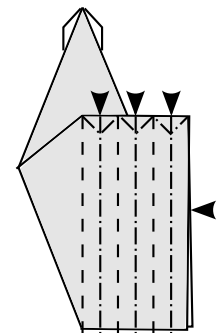
7 - Petal at left and right



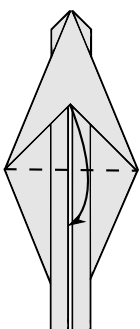
8- Fold mountain creases  
on rear flaps. Turn over.



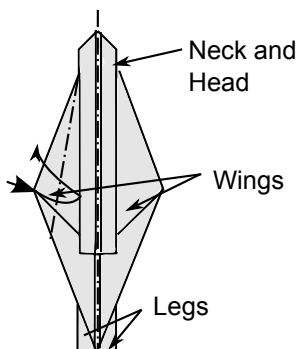
9 - Pinch at a-b and push  
paper up to make a petal  
fold.



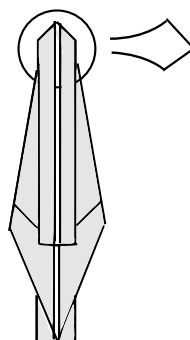
10 - Collapse as  
in step 6.



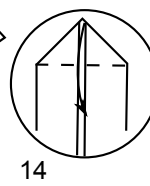
11 - Valley fold  
flap down



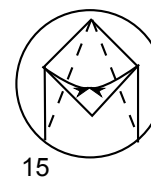
12 - Fold and unfold  
top flap. Aligning edge with  
pleats. Close sink corner.



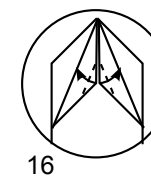
13- Top  
portion details



14



15



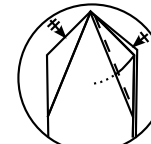
16



17 - Elias's  
stretch



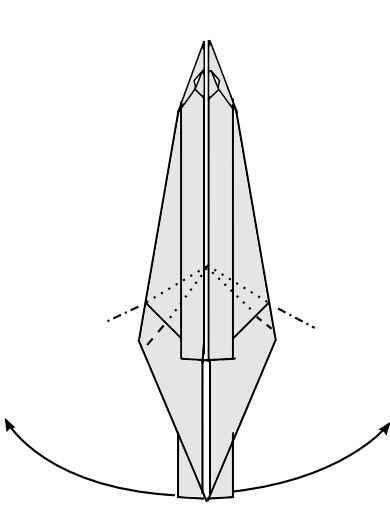
18 - change  
view



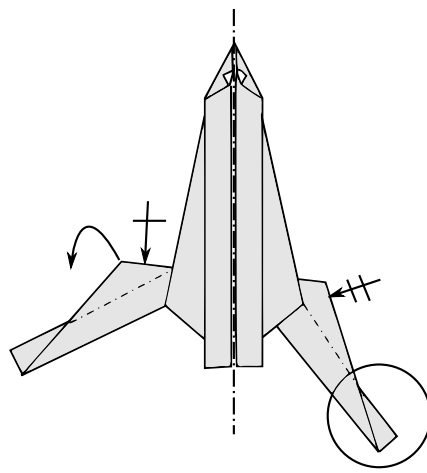
19 - Tuck  
under.

Full view in 20

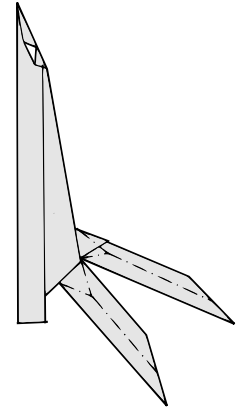
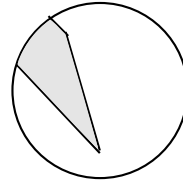
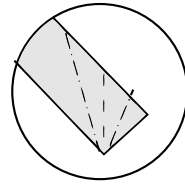




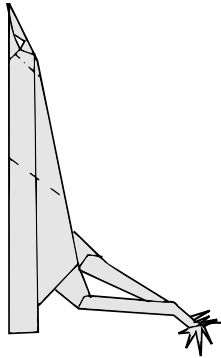
20 - Crimp fold legs.  
Left angle more than right



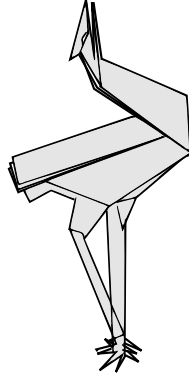
21 - Tuck excess flap inside symmetrically  
Fold three successive reverse folds to narrow toes. Fold model in half.



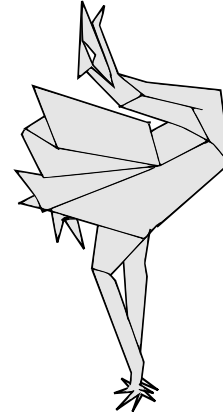
22 - DRE legs. Position them as shown  
Narrow toes further and spread them.



26 - Two outside reverse folds to form neck and head. Rotate model.



27 - Spread and shape wings.  
Reverse fold tail and spread layers.  
Shape neck with soft folds. Open beak.



Finish.