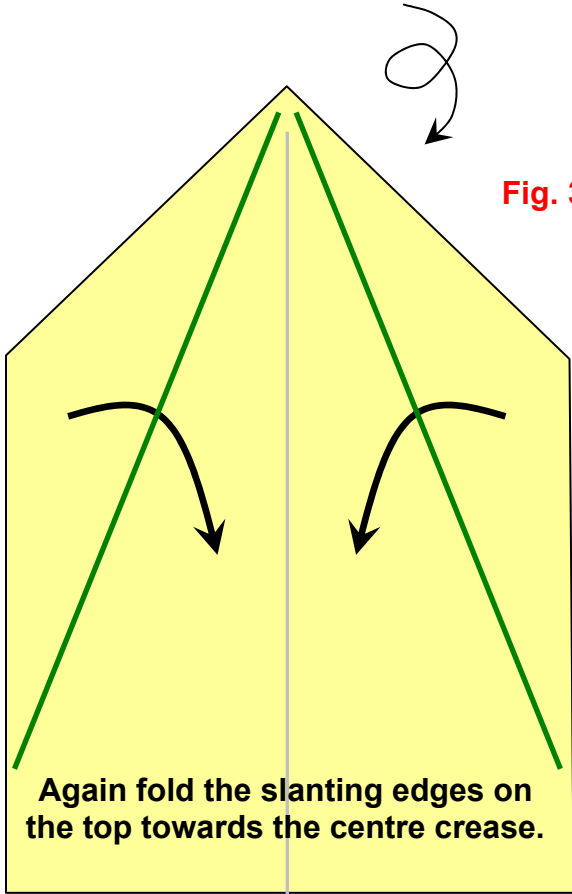
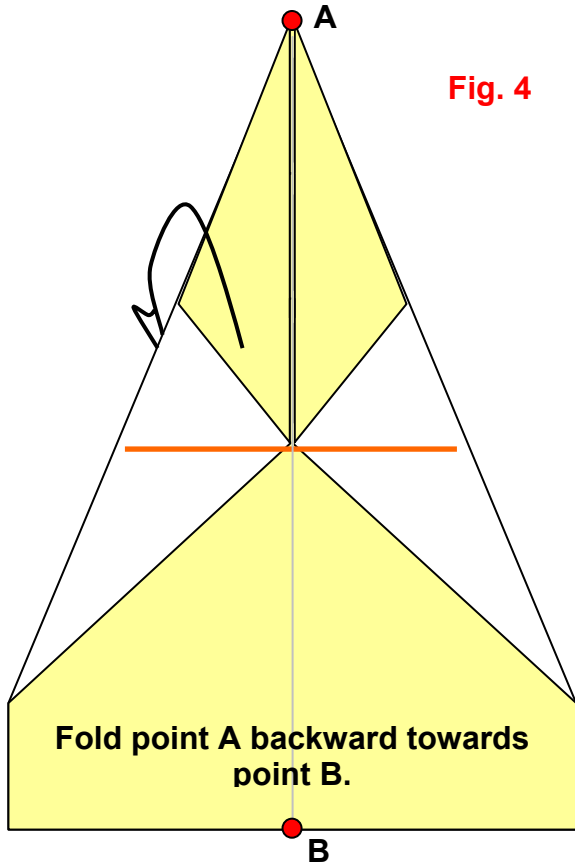
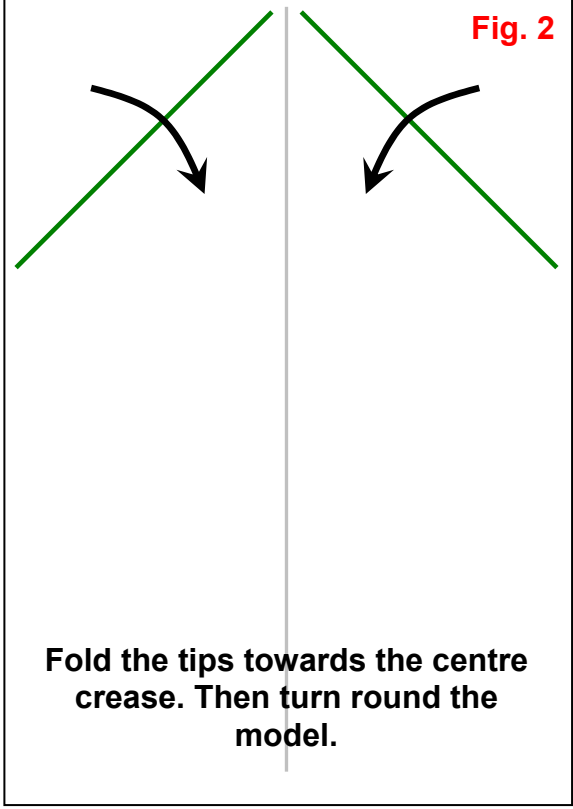
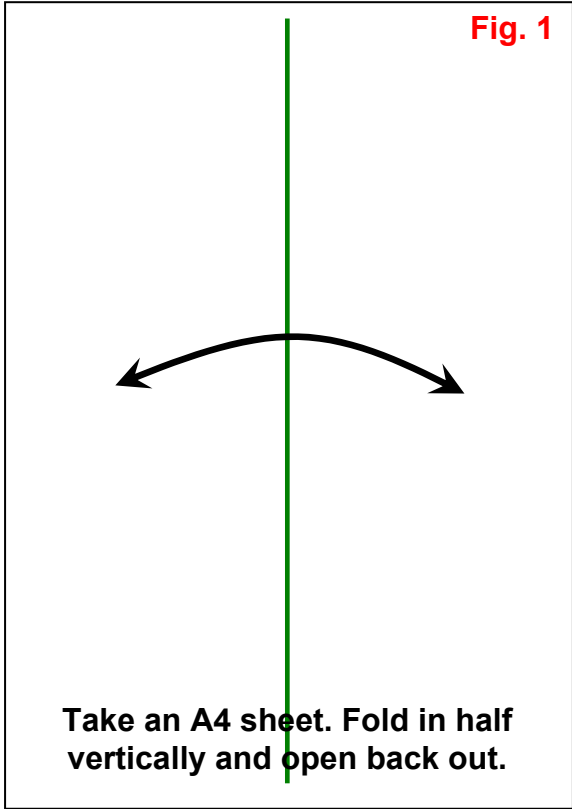
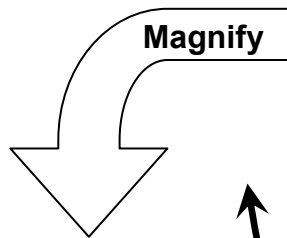
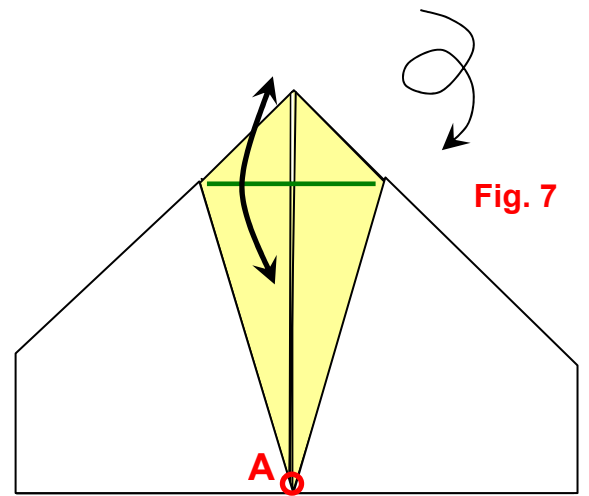
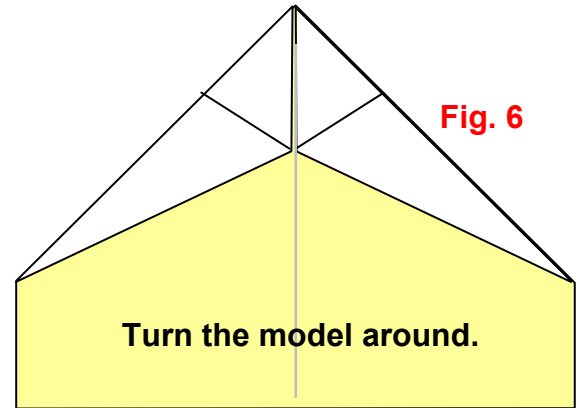
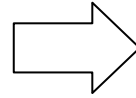
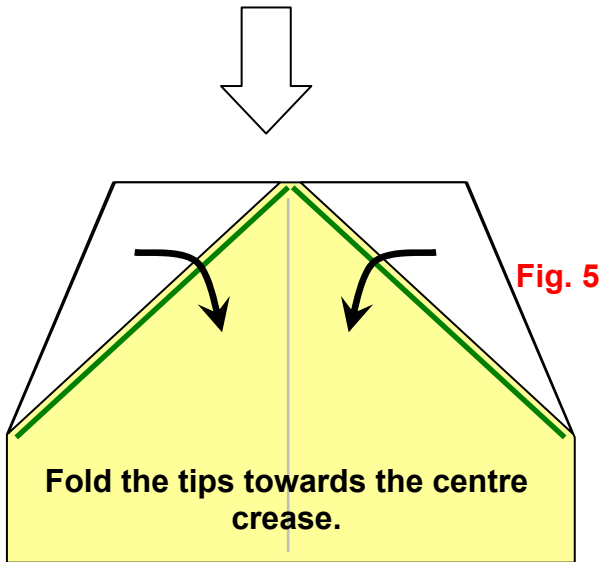
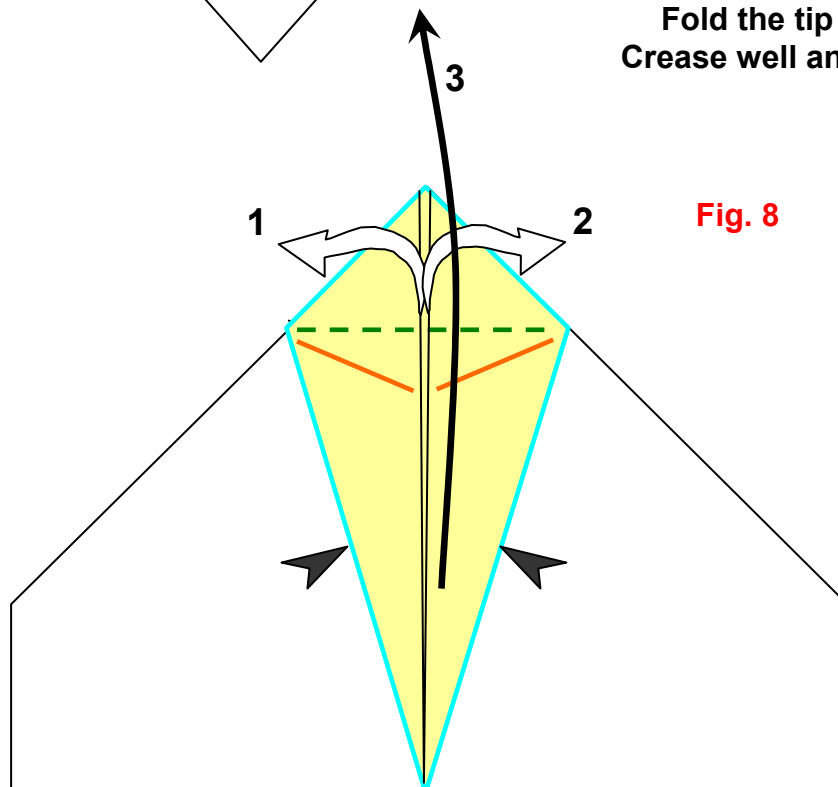


Folding the Saayi (advanced)



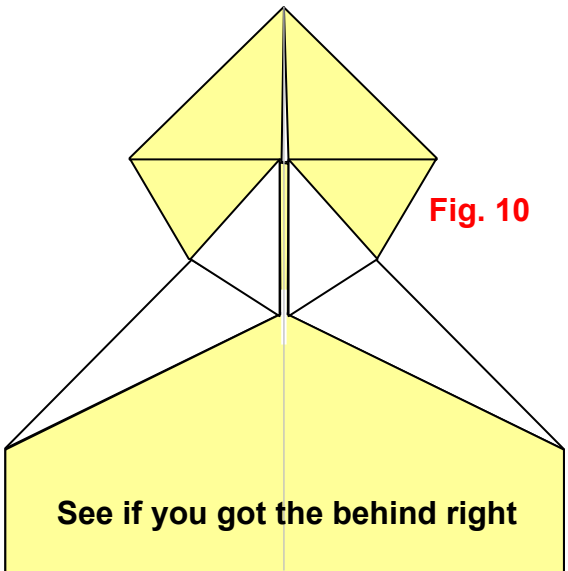
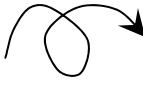
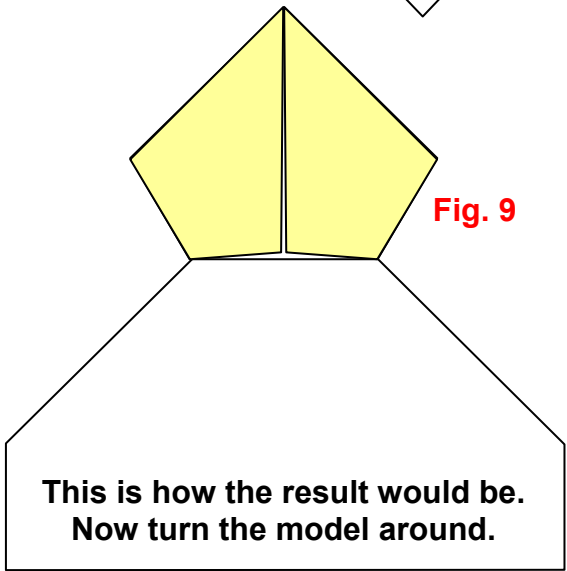



Fold the tip **A** upwards.
Crease well and then unfold.

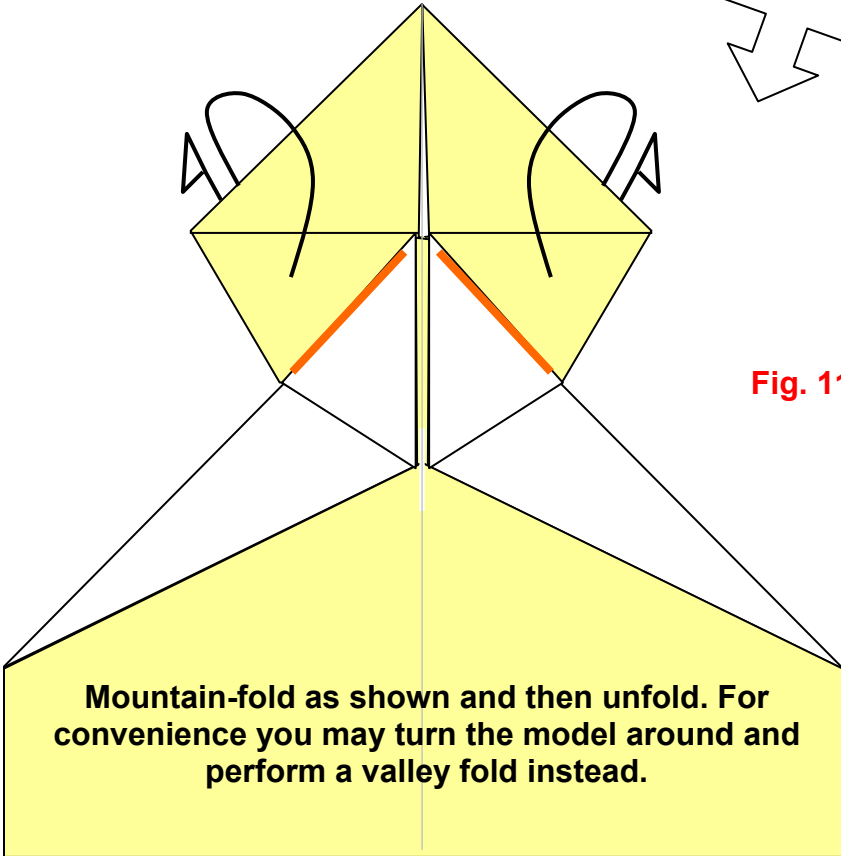


Open flaps as indicated by the white arrows.
Fold '3' along the dashed-green
(which was created in Fig. 7).
Do observe the blue unfold lines.

Demagnify

Magnify




Magnified

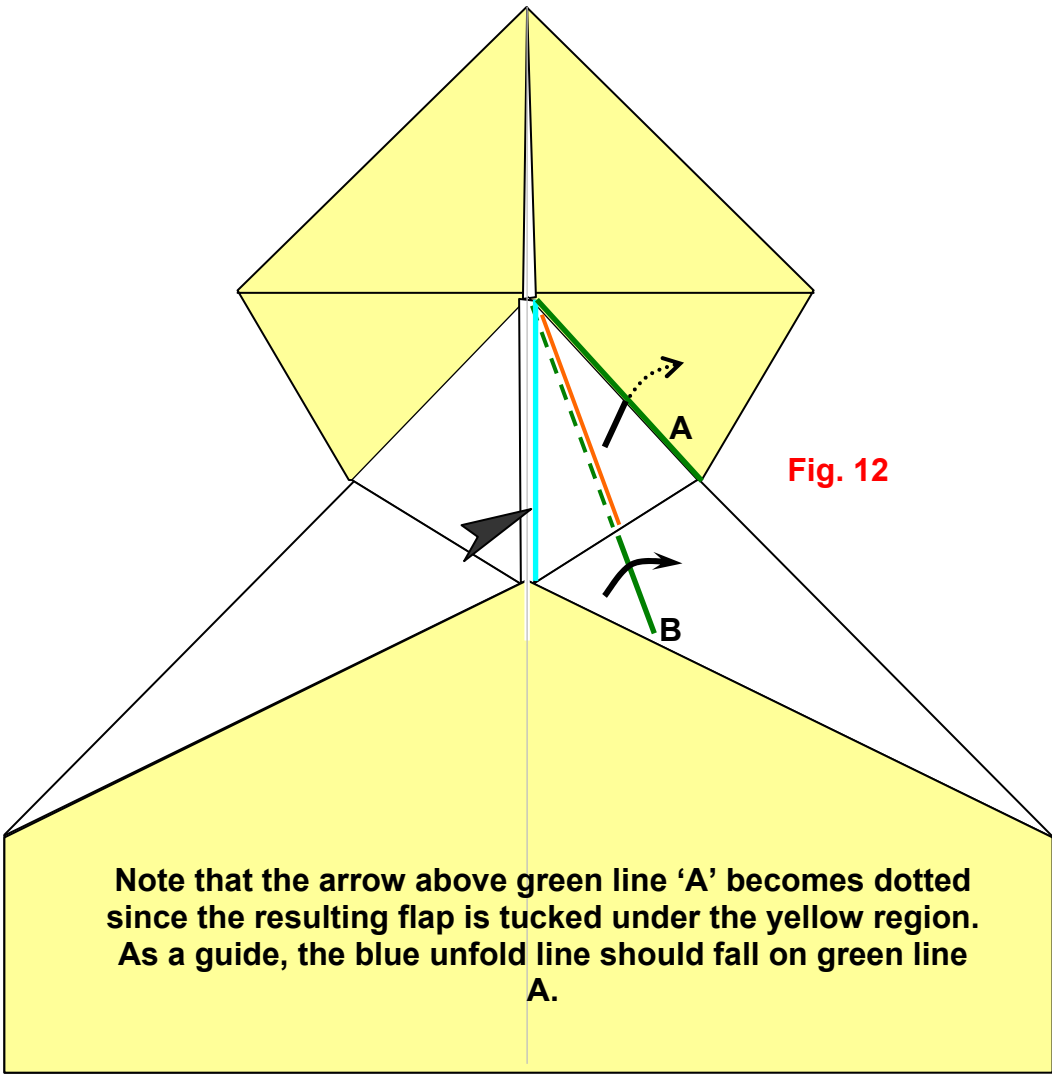
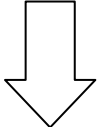
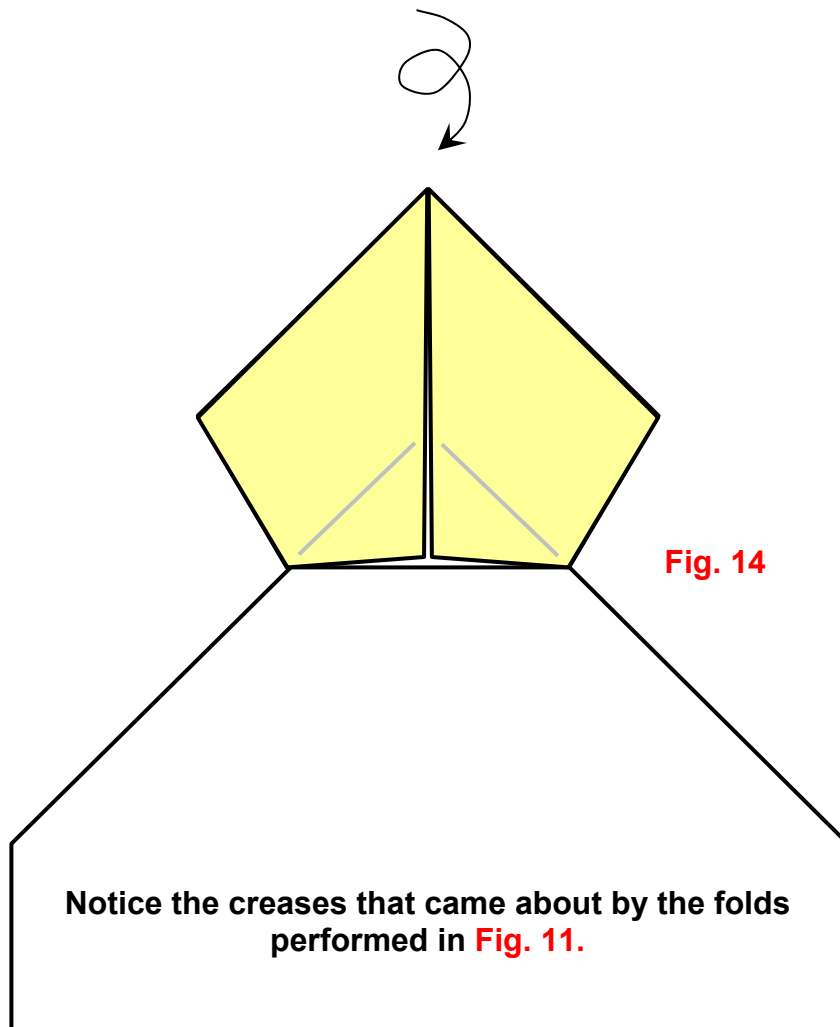
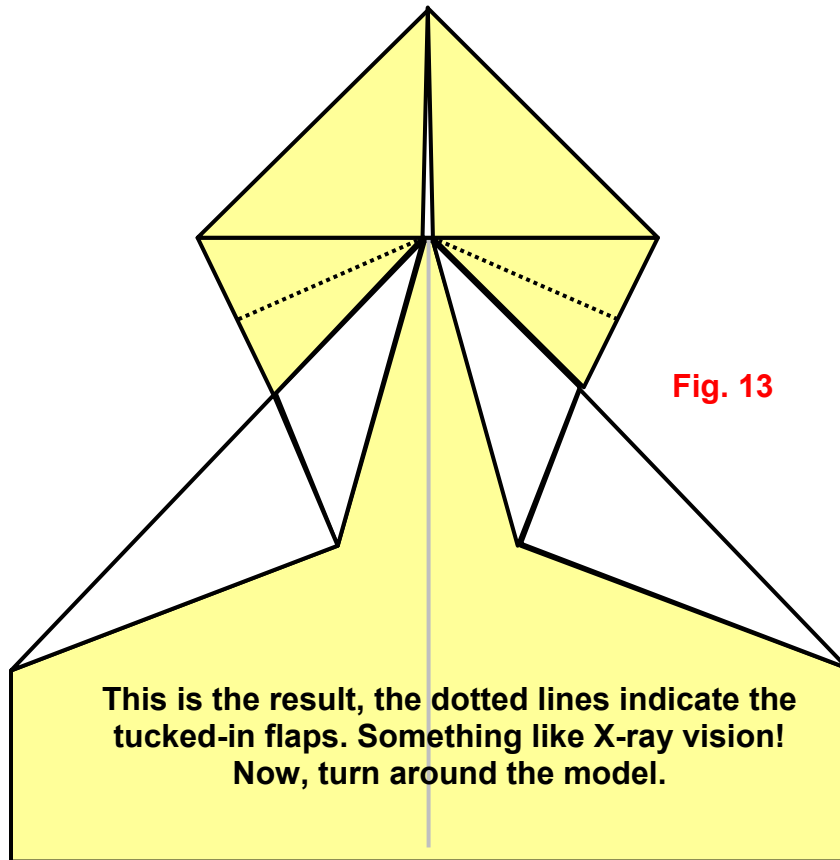
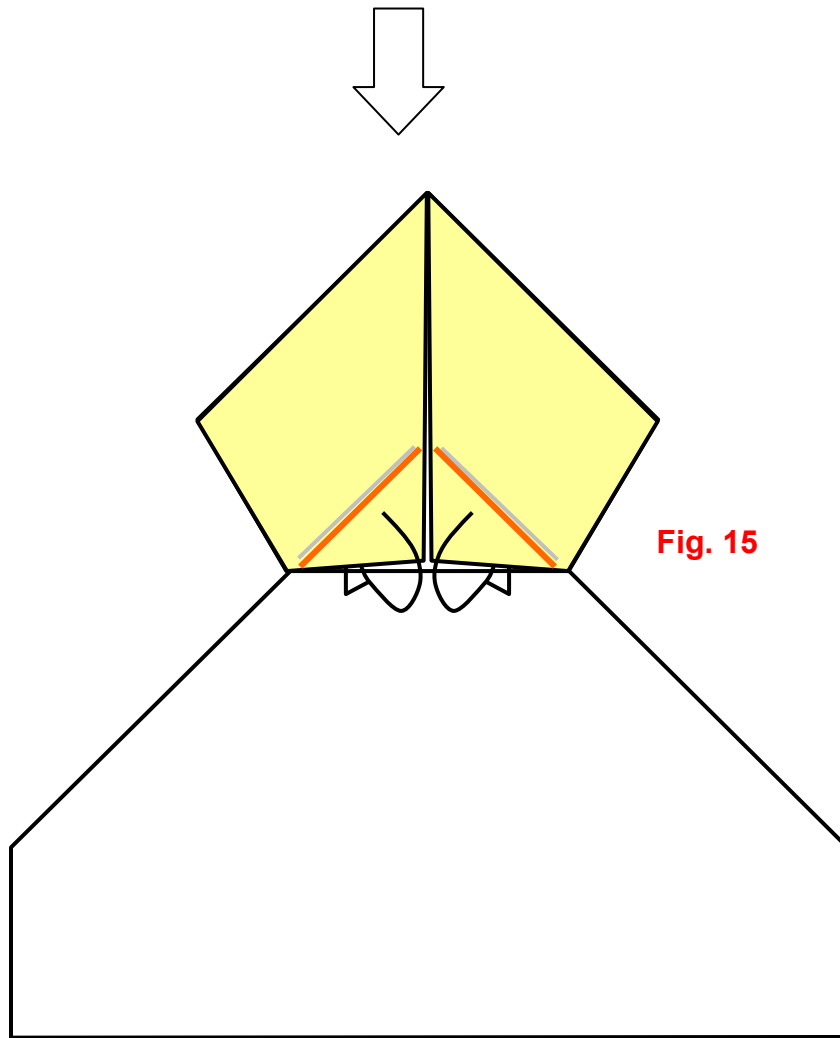


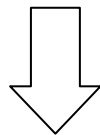
Fig. 12







Mountain fold along the creases mentioned of in
Fig. 14 (previous)



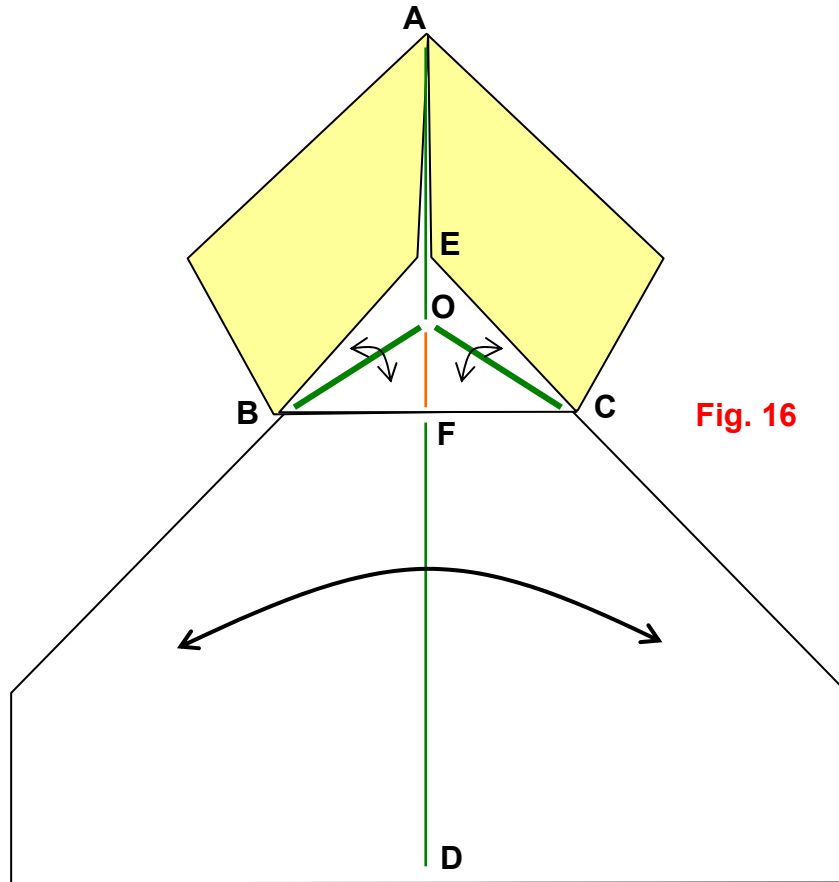


Fig. 16

Make creases (i.e. fold and then unfold) along BO and then CO. It is important to keep in mind that O is the centroid of the Equilateral triangle BEC. While folding either BO or CO the model tends to fold up in half along AD. Notice the tiny mountain fold OF.

The triangle BECF will be represented as **triangle (in red font) in any later referrals.**

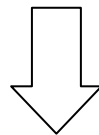
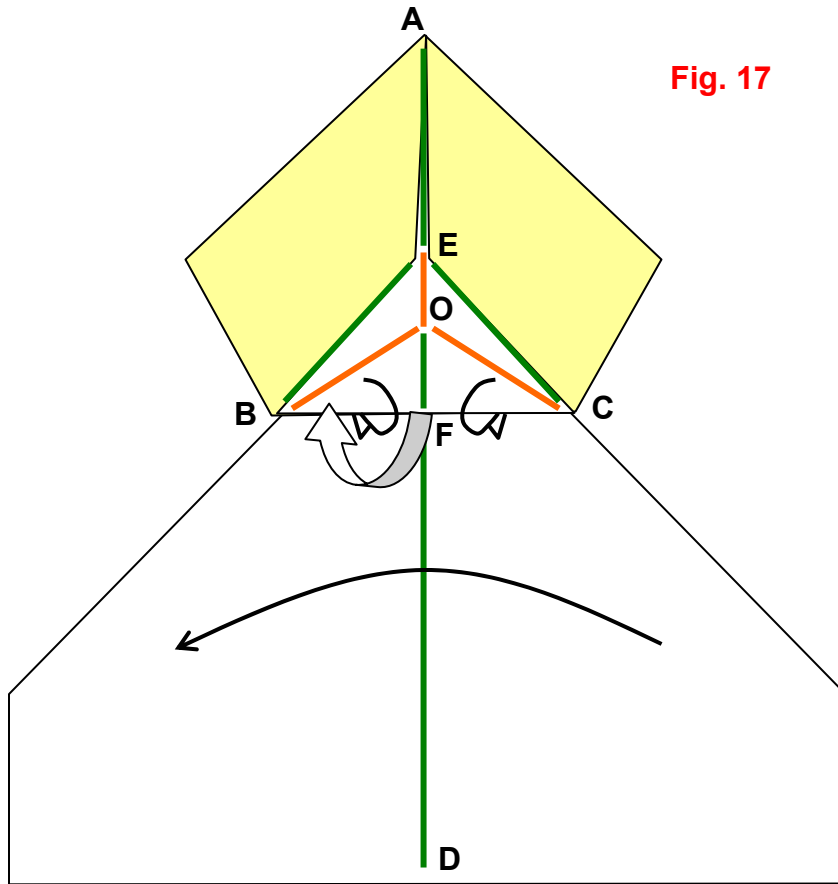
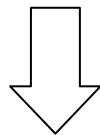


Fig. 17



Lock Step: The arrow in perspective shows that the whole **triangle BECF** has to be pushed upward. Perform mountain folds along the creases BO and OC. While doing all this, the whole model should simultaneously be folded in half. Notice the small mountain fold along OE. Please take your time for this step as it is crucial for the plane. Bugged down? Don't worry, I have elucidated further in the next figure (Fig. 18).



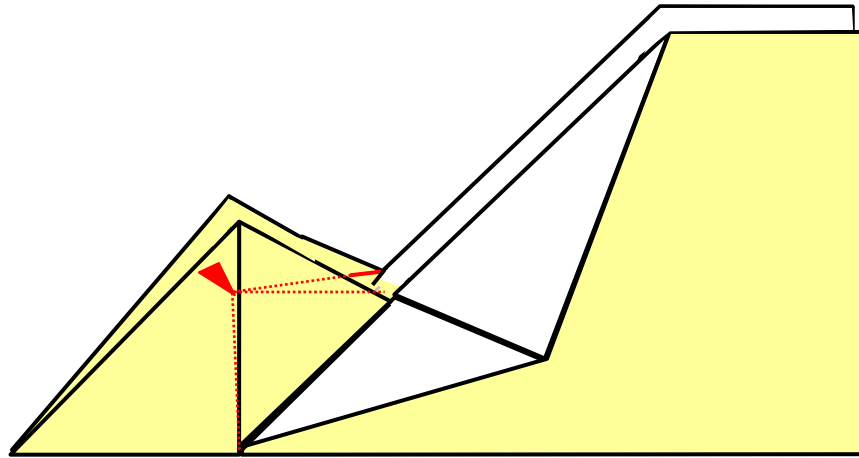


Fig. 18

In this figure, I've tried to show an intermediate stage. Those folds of Fig. 17 that have been performed are BE, AE, OE, EC and FD. The triangle is shown here using X-ray vision. For the X-ray vision, I've used red dots instead of black for clarity. Now just squash the triangle by pushing along the solid red wedge, thus performing folds OB, OC and OF.

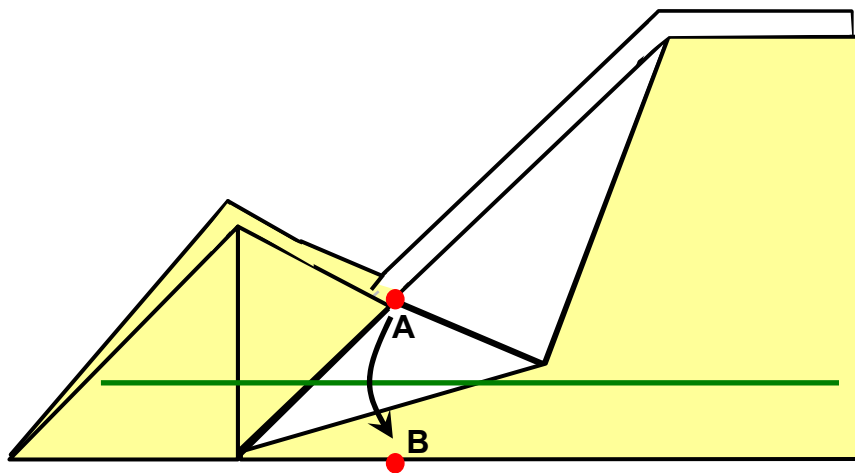
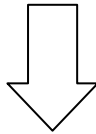


Fig. 19

Now fold the wings by joining point A to point B. If point-A just falls short of point-B which is on the baseline, it means that in Fig. 17 you haven't taken point-O as the centroid of the triangle.

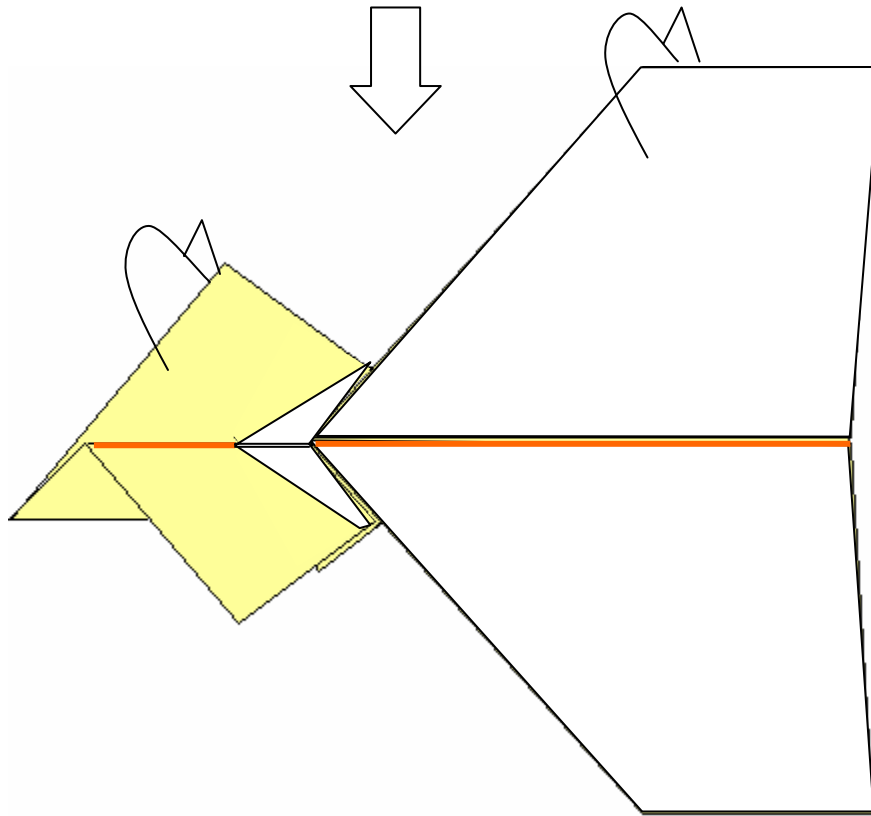


Fig. 20

That's the result. Notice the lock that's shaped like an arrow. Now fold the other wing symmetrically.

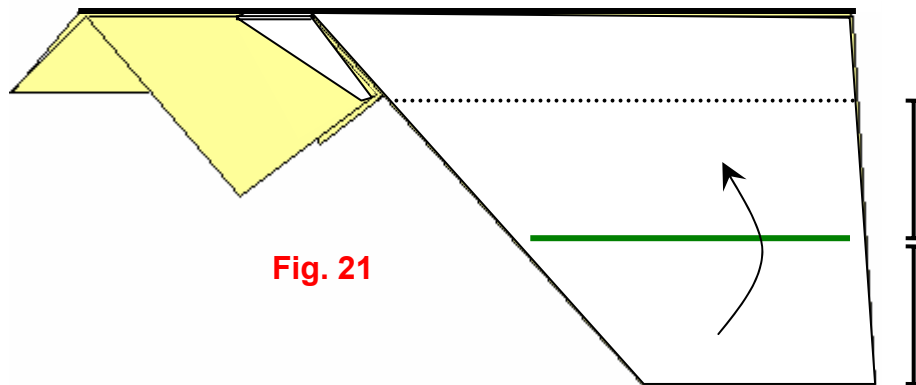
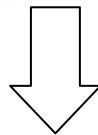


Fig. 21

Fold the winglets as shown above. I would like to remind you that the black dotted line is 'X-ray' vision. It is a paper edge hidden by the layer of paper on the top. Similarly, fold the winglet for the right half also.

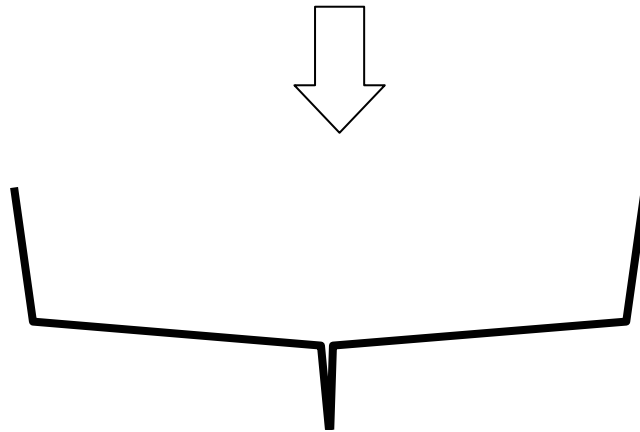


Fig. 22

Open out the model so that the winglets are perpendicular to the plane, as above. Also note the slight dihedral so that the plane does not 'roll' during flight.
 Congratulations
 Now I would like to share with you a little secret about the Saayi.



Fig. 23

Flatten the model so that it looks like above.
 Note that the region of the plane AB will be represented by a blue line and the region BC by a pink line.
 Hold region AB by the left hand and region BC by your right hand at the regions indicated by the red colored text boxes.

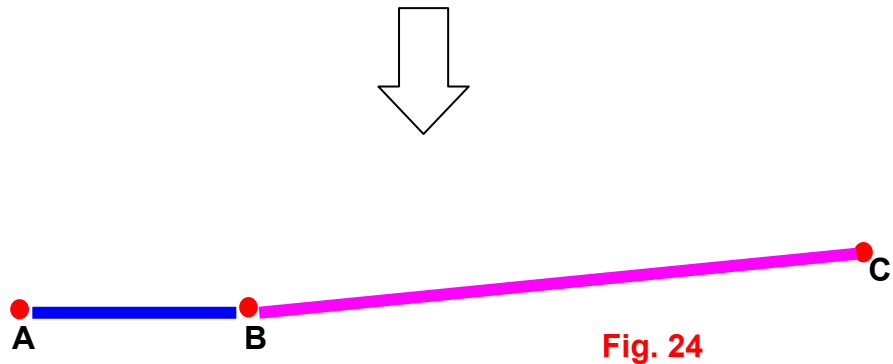


Fig. 24

This is the climax of Saayi.

Notice that the region BC can be lifted relative to AB. This lift increases the angle of attack and thus induces more lift on the plane. Usually a tilt of BC by about 5 degrees will suffice though you are free to experiment.

Unless you are an aerogami purist, once you get a good flight, you should lock the plane in that shape using a cellotape on region B. Else BC would revert back to the original straight line once the plane dashes onto the ground.

I believe this way of increasing the lift is unique and I haven't found such an option for other paper airplanes.

This is the particular advantage that Saayi has over other planes.

Saayi has a fantastic look as well as flight (if adjusted properly) thus making it my best paper airplane. Note that both folding and flying precision are required to get the true flight of Saayi. Once you fold several Saayi models you will gain experience.

Any suggestions or alterations are welcome at ravykumar@gmail.com
I request you to fold at least two Saayi models before coming to conclusions.

!!!Have a nice flight!!!