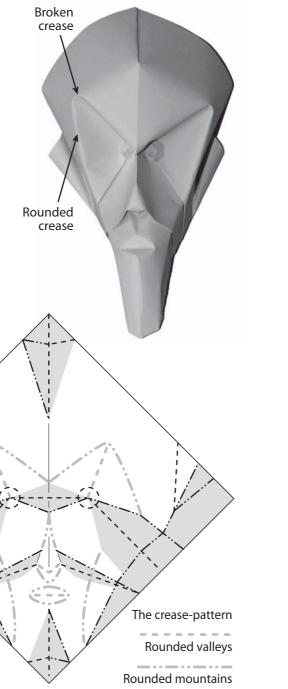
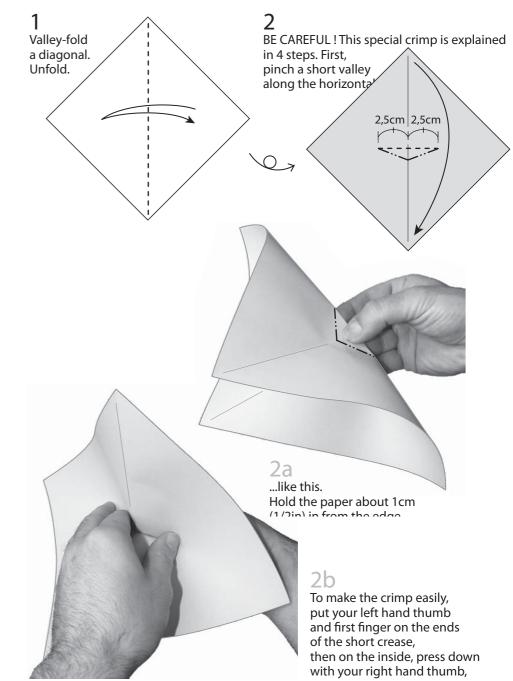
3D MASK

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It is difficult to draw diagrams for 3-D models, and difficult to understand such diagrams. So, this is my first attempt to diagram with a digital camera — it may be an unfamiliar method, but I hope you will appreciate seeing the hand positions and shadows. BE CAREFUL ! There are 40 photos, only 16 of which show "reals" steps, as in a conventional set of diagrams. These steps are indicated by a BLACK number. The other 24 steps are "intermediary" steps, indicated by a GREY number AND a letter.

The basic idea of the model is economy. By this, I mean economy in the number of creases, and economy in the use of paper. This is best understood by looking at the crease pattern diagram on the right. The grey shading represents areas of paper hidden in the final model. The use of "rounded creases", "broken creases" and "tensioning" of the paper, means that your first attempts pro-bably won't be too perfect. You need to practice, testing different types and sizes of paper. When making 3-D models, choosing exactly the right paper is more difficult than the folding process itself. The measurements given in the instructions assume a paper size of 20 cm (8 inches) square.





2C Take out your right thumb and flatten the crimp firmly with your left hand. Turn over.

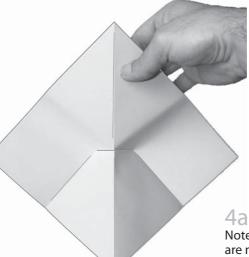
> Make rounded "mountains" and "valleys" as shown. Use your thumbs on the front to create the valleys, and first fingers behind

3

This is the result,

seen here from the back. Make 2 mountain folds

that start from the ends of the crimp,



4

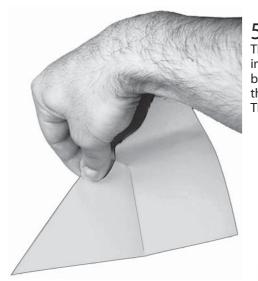
Note that the rounded mountains are not exactly perpendicular to the edges. This form already suggests a mask,

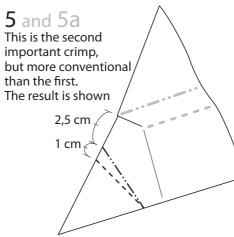
3b This is the result.

Turn over.

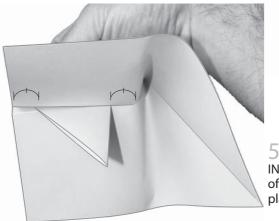
3a

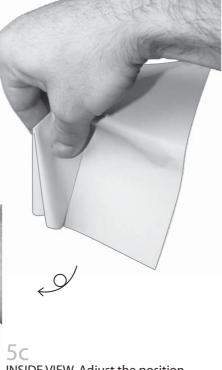
...like this.





5b Before you flatten this inside reverse fold, look at step 5c.





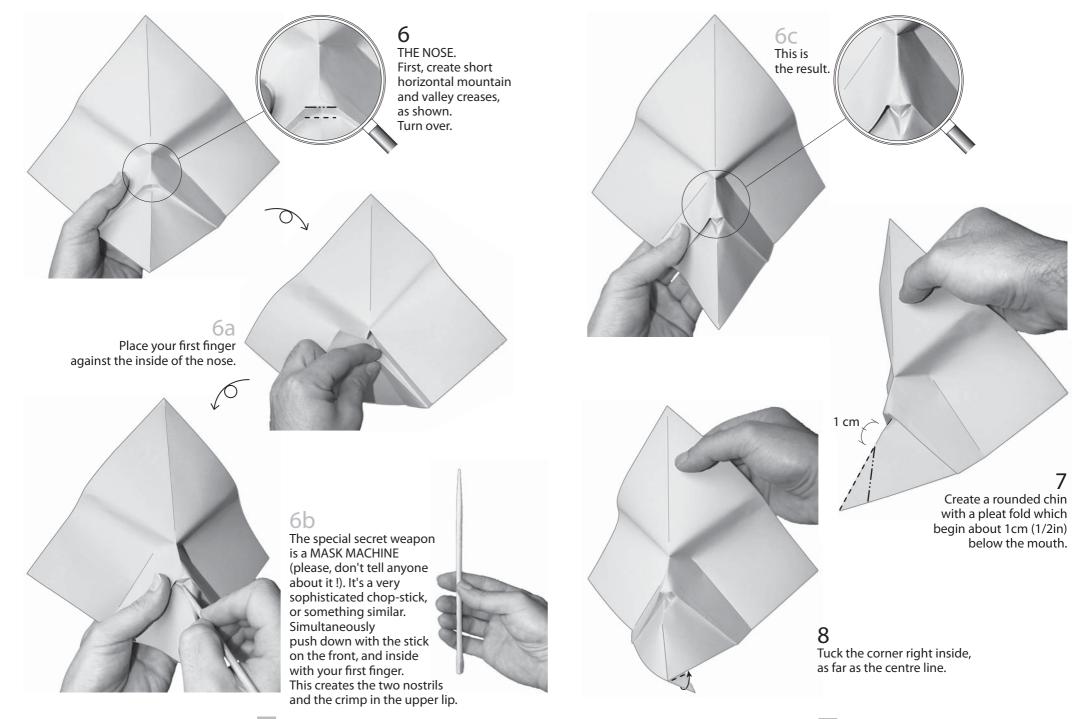
INSIDE VIEW. Adjust the position of the flat triangle so that it is centrally placed between the mountain creases,

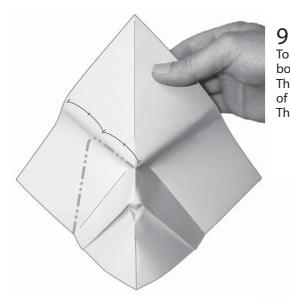


Before completing the crimp with another inside reverse fold, make sure you leave 1cm (1/2in) of paper inside the nose...

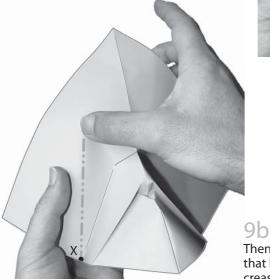


With just 5 folds (1 diagonal, 2 crimps, and 2 valleys in the cheeks), you have already created a mask. From here onwards, I'm sure you can create your own variations... ... or go to step 6.





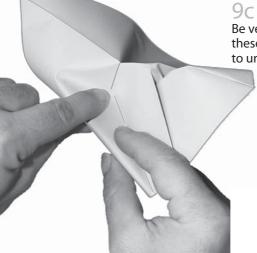
9a BROKEN CREASE. Hold your right thumb as shown, and push forward from the back



To finish the brow, we need to create both "broken" and "rounded" creases. The broken crease is in the middle of the rounded crease already made. The result can be seen in step 10.



Then, create a ROUNDED mountain, that begins at the end of the broken crease and ends at point X.



10

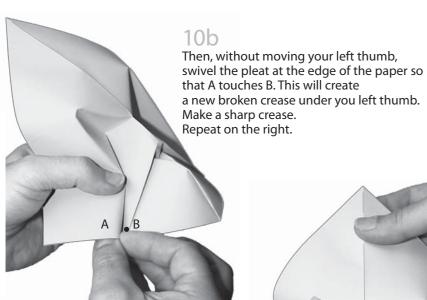
After repeating step 9 on the right hand side, your mask should look like this. We need now to create a mountain fold that lies flat against the cheek.

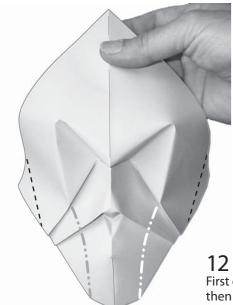


Be very careful when rounding these mountains ! It is not possible to undo a mistake (what stress !).

10a

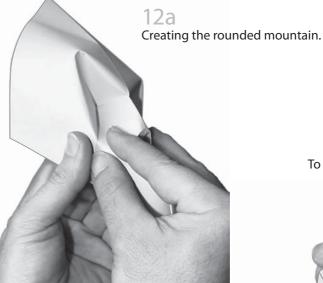
First, with your left thumb, press the middle of the rounded mountain made before, so that it touches the cheek.





11 These 2 new broken creases create tensions that press the cheek layers together. Narrow the mask by folding the left and right corners behind, as shown.

First create rounded mountains (step 12a), then create ears by making valleys (step 12b).



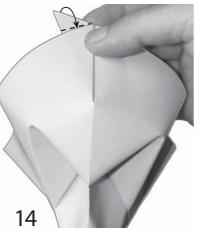




13 This is the result. To create the forehead, make the same kind of pleat

13

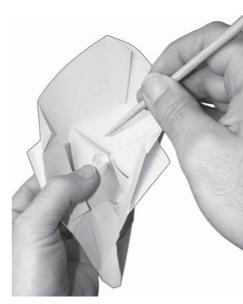
13a The pleat in progress.



Make the same lock as for the chin, tucking the corner right inside to the centre line.

15

INSIDE VUE. The eyes are made by sinking corner C. To make the sink easier, hold layers D and E together in your left hand. If you want 2 eyes, repeat on the right.







15a and 15b To finish details such as the eyes, mouth and broken creases, the wonderful MASK MACHINE



The mask completed.

The first few times that you make this model, you'll try to make it symmetrically, as though proving to yourself that you can control the paper. But in fact, a symmetrical mask looks "dead". So, practise, and enjoy...

Tested during 31.12.1999, by Claudine, Giusepina, Patricia, Ulla and Thoki. Great thanks to them, and a special one to Paul for his translation.