

Air Ship "Leonardo"

The myth of Leonardo da Vinci as the genius that, in the second half of the 15th century, had already anticipated many discoveries of modern times, has been disproved long ago. He simply recorded in many of his works the so far unwritten ideas of his time and of older traditions all the way to antiquity. What is left is the fascination with the sheer amount and diversity of the compiled material and the many experiments he conducted. To the latter belong his prestudies on the principles of flight with paper airplanes and small hot air balloons made of paper.

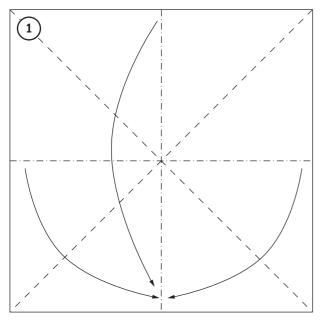
A similar myth, also unfounded, is the one about the first manned balloon flight with a hot air balloon of the Montgolfier brothers in 1783. The first provable aeronaut and designer of an "aeronautic machine" was the portuguese Father Bartolomeu Lourençe de Gusmão. In 1709, he floated with his balloon build of paper to the roof of the palace, before the eyes of the entire royal court.

Experiments with balloons were not unusual around 1700. So it is quite possible that undiscovered documents on manned balloon ascents are still slumbering somewhere.

Hints

• level: ■ ■ ■ □

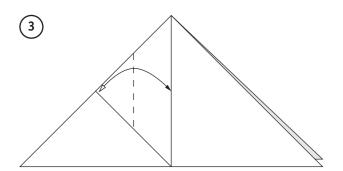
• paper: 24x24 cm or greater for success



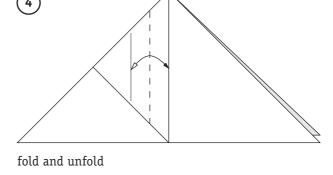
2

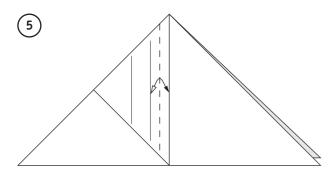
fold the upper left flap to the top

- colored side down
- collapse to a waterbomb base

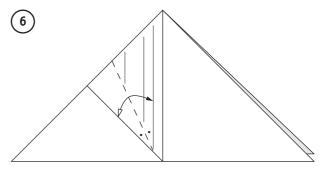


fold and unfold

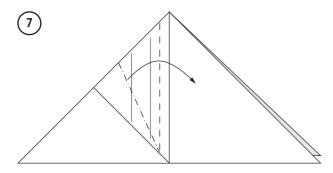




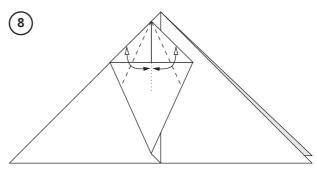
fold and unfold



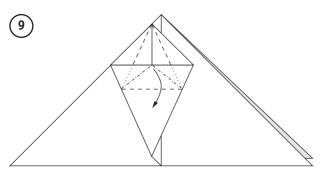
fold and unfold



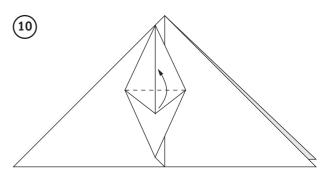
squash-fold on the existing creases from steps 5 and 6 $\,$



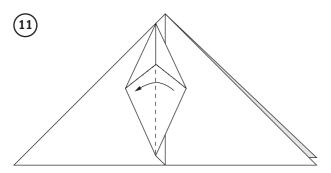
fold and unfold



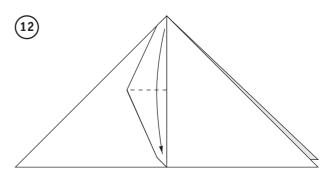
petal-fold, use creases from step 8



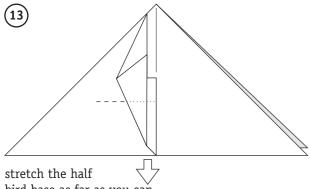
valley-fold (note that you folded a half bird base)



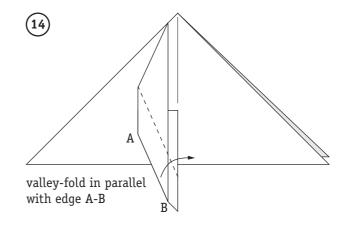
valley-fold, close the half bird base

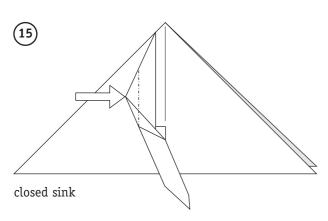


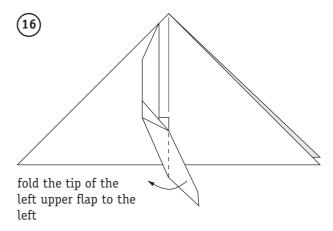
fold the tip of the left upper flap down

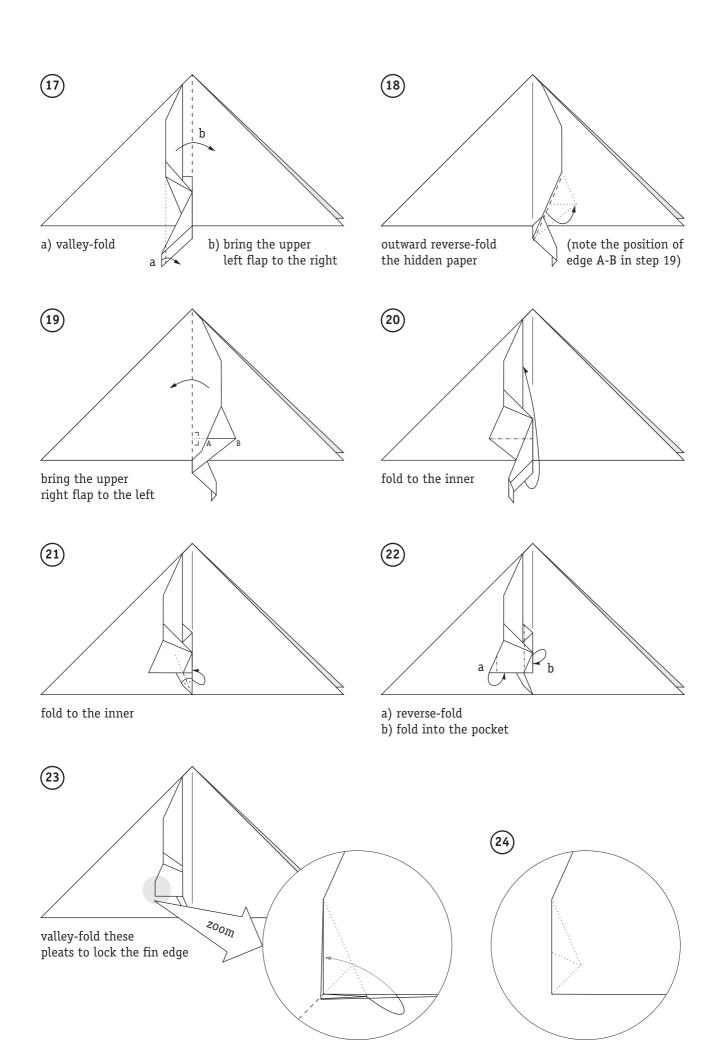


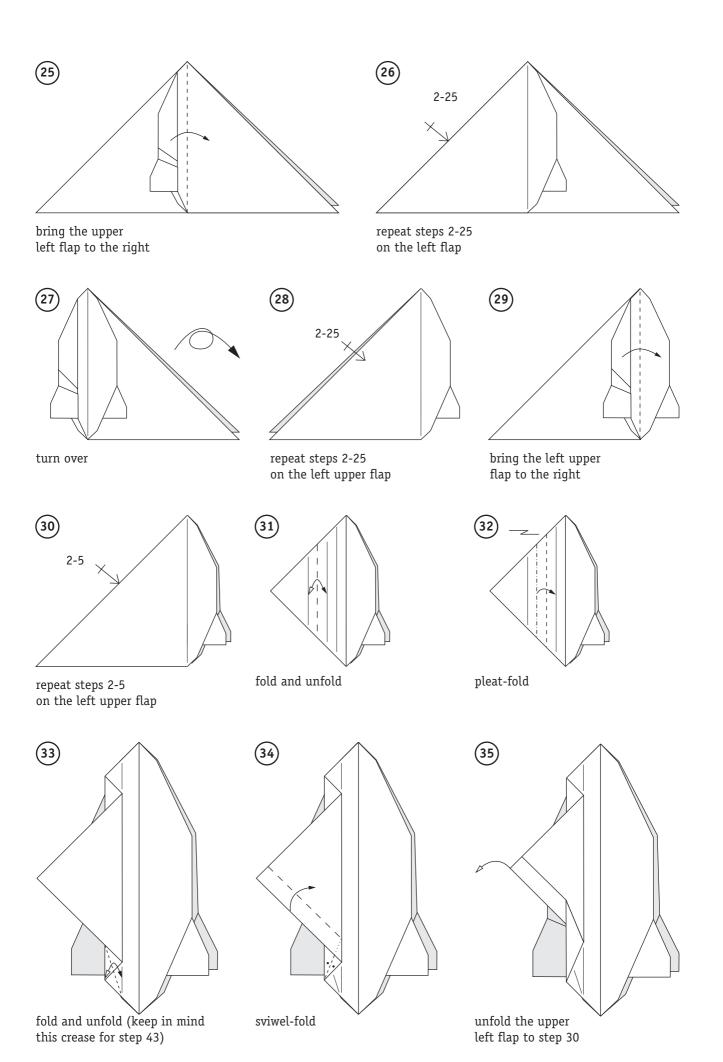
bird base as far as you can

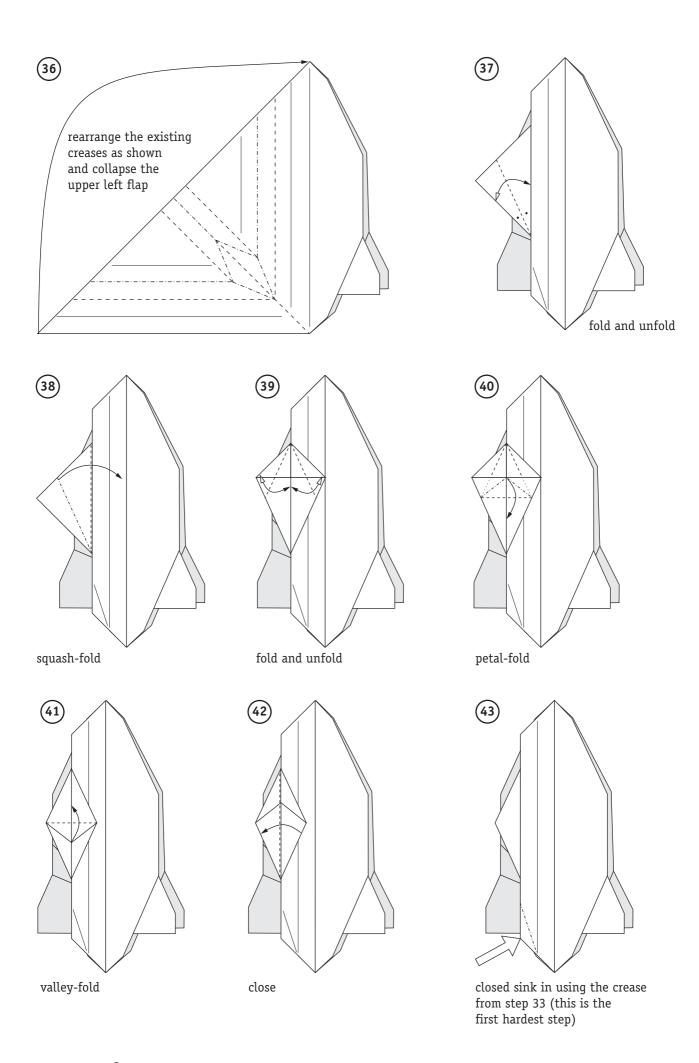


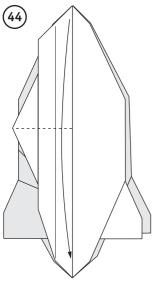


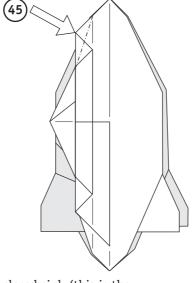


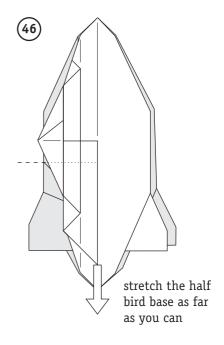






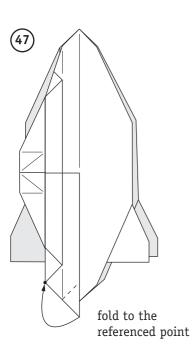


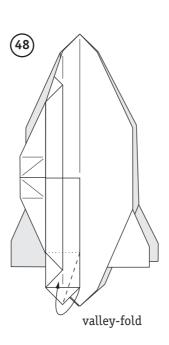


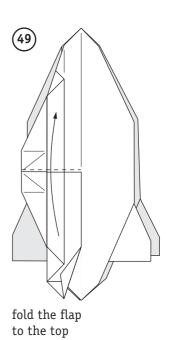


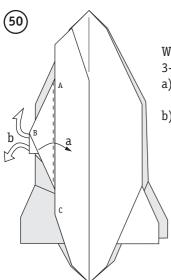
fold the tip of the left upper flap down

closed sink (this is the second hardest step)



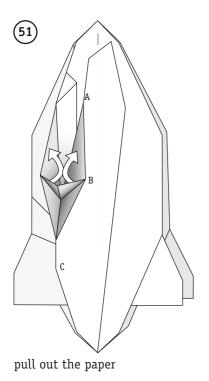


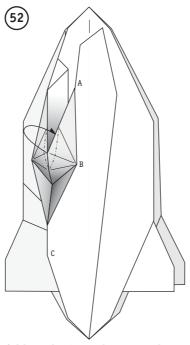


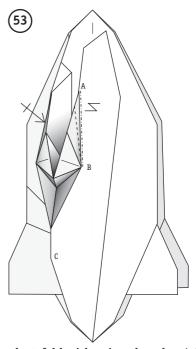


We curve the gondola 3-dimensional now:

- a) bing the left flap in front to you andb) spread it as shown in step 51, the model shell doesn't lie flat

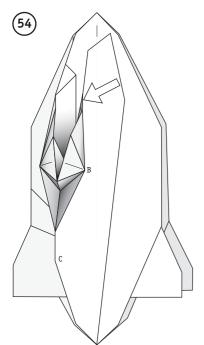




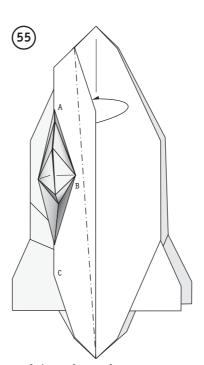


fold to the inner between the existing creases (from half bird base folds)

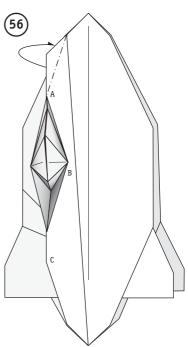
pleat-fold with using the edge A-B, repeat on the other side of the gondola



close the gondola's front in pushing the tip A to the left



tuck into the pocket to fix the gondola



tuck into the pocket (closed sink from step 45) to fix the gondola front

