



# TRADITIONAL BENIIRE

**MATERIALS:** One 15 x 15 cm square paper, preferably with two-color faces.

## Instructions

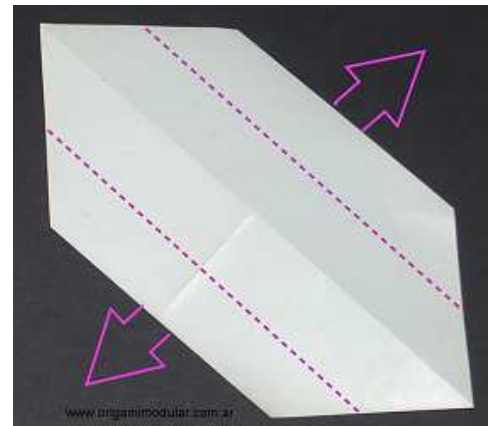


1. Fold both diagonals. The final effect changes depending on whether you place color side up or down.



2. Bring two corners to the center and turn over.

3. Fold towards the center allowing the points underneath to come up.



4. Should look like this. Lift one of the folded corners and valley fold along the half line. The corner meets the center point.



5. Fold again in half. Repeat on the other side.

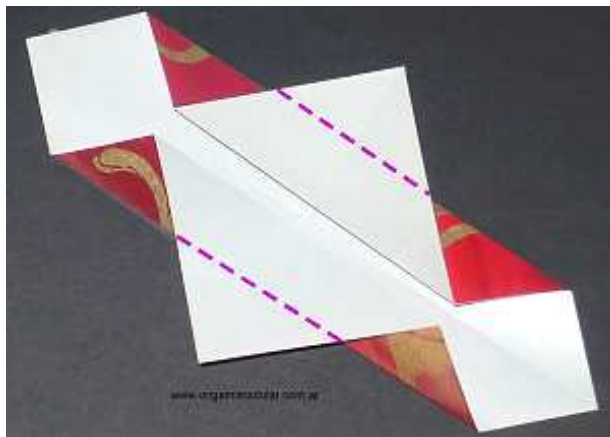


6. Fold in both ends.

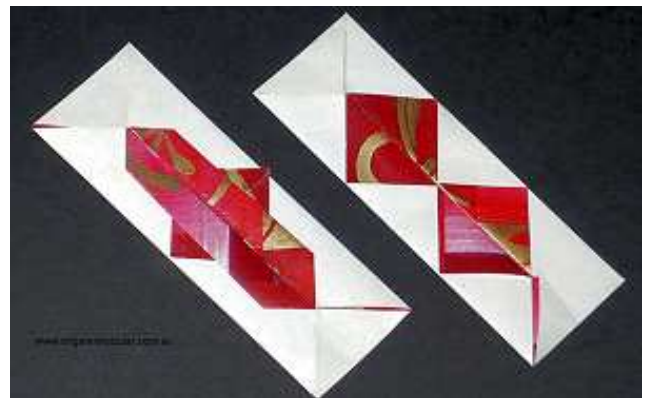


7. Finished beniire.

8. There is also a simpler fold –shown below– that produces a different effect.



9. And this is how they look when reversing the color at the start.





If you leave one end open and close the other, you get the traditional wrapping for chopsticks.

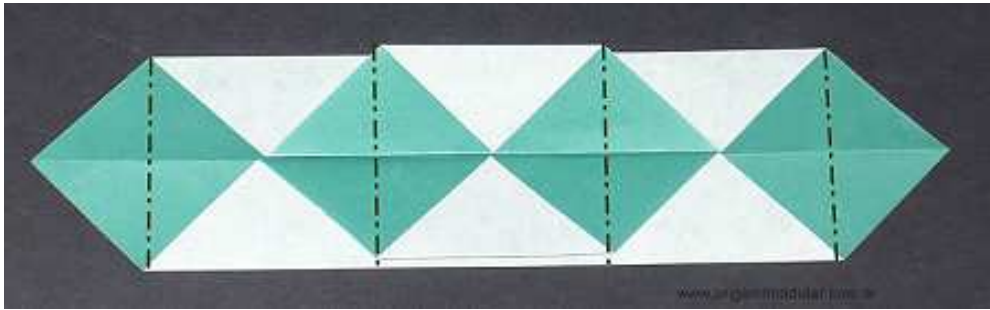


## 2-BENIIRE CUBE

MATERIALS: Two 15 x 15 cm squares folded up to step 6 of the instructions.



With either folded version, make the mountain folds shown below, to limit the faces of the cube. You will need a dab of glue to hold it together.

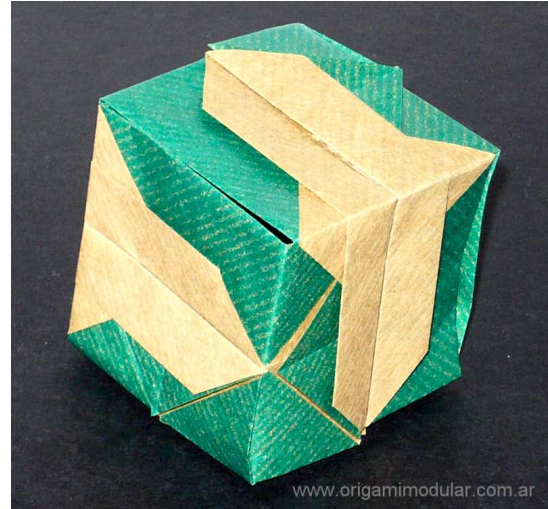
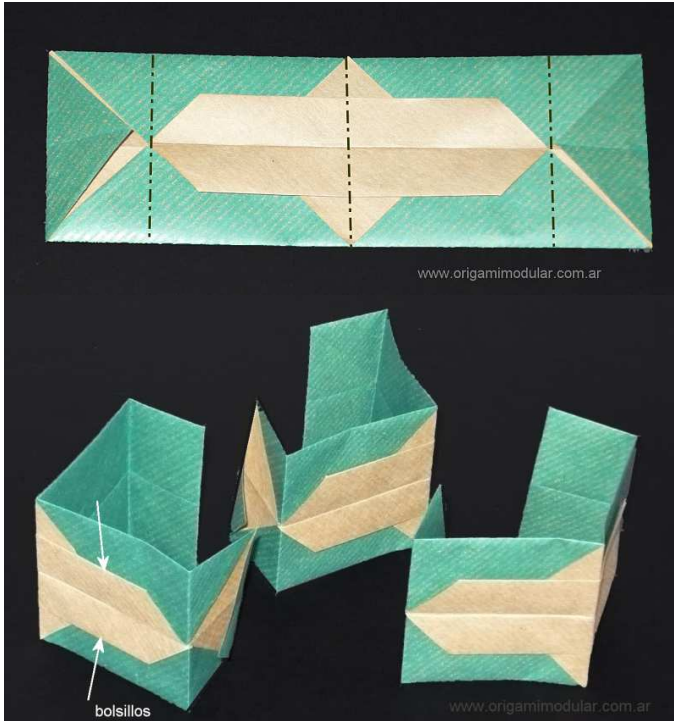


The two modules ready for assembly. Tuck the ends between the two layers on the edge and anchor with a point of glue.

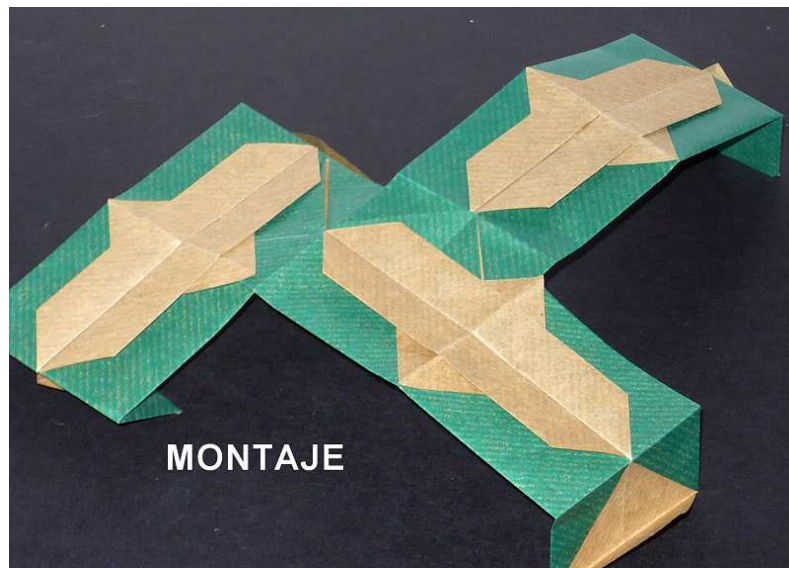


## 3-BENIIRE CUBE

MATERIALS: Three 15 x 15 cm squares folded p to step 7 of the instructions



Mountain fold the three modules as shown.



ASSEMBLY: A more solid cube may demand anchoring with glue.



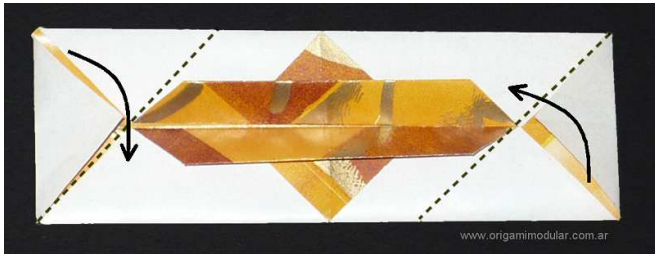
## TOSHIE'S JEWEL



The Beniire produces several decorative variations of the sonobe unit.

*"Toshie's Jewel"* was made by Toshie Takahama, and it is considered the first step towards what we call today modular origami.

**MATERIALS:** For each jewel (or hexahedral bipyramid) three 15 x 15 or 10 x 10 cm squares folded up to step 7 of the instructions.



1. Valley fold two opposite corners keeping the same parity in all three units.



2. Tuck corners under the opposite fold.



3. Mountain fold the three units as shown.

## ASSEMBLY



4. Three units ready and an assembled jewel folded with inverted color.

5. Join three to form a peak. Close it the same way on the other side.



This sonobe variation may be used to make all the flat or stellated polyhedra you can make with the classic sonobe.

Cube x 6 and stellated octahedro x 12.

