

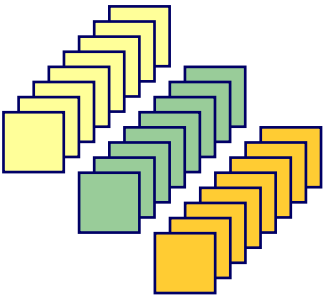
Infinite Flipper

Design & Diagrams by Anna Kastlunger (2009)

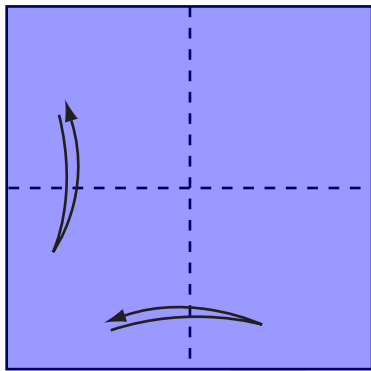
On the Origami Forum I was challenged to design an Origami version of a flyer someone got sent per mail and wanted to recreate.

The basic principle of this model is easy as are the modules to make it. For this project you need **24 squares** of paper that are folded into three different modules. The **yellow** ones will be **covers**, the **green** ones **joints** and the **orange** ones **bridges**. The bridges won't be visible in the final model (so take a colour you don't like much). We need 8 modules of each kind.

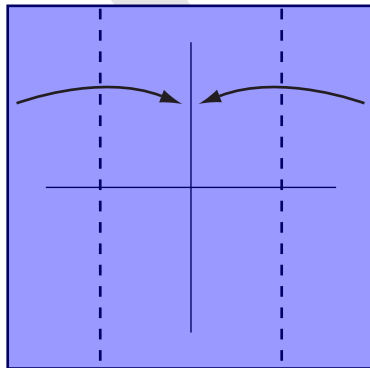
In these diagrams I will show a simplified folding instruction that leads to unnecessary crease lines that show up on the model. It is possible to avoid them, but I leave this as a challenge to you. Due to this simplified version, the joints and bridges are folded the same.



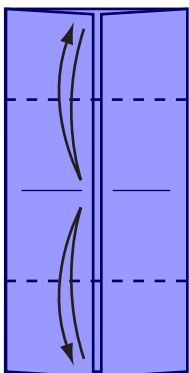
Folding the Modules:



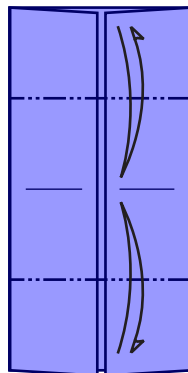
1. Fold and unfold.



2. Fold the sides to the middle line.

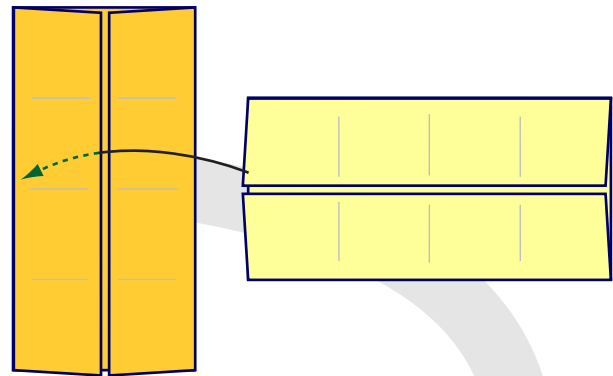


3a. For the covers and bridges, valley fold and unfold the top and bottom to the middle line.

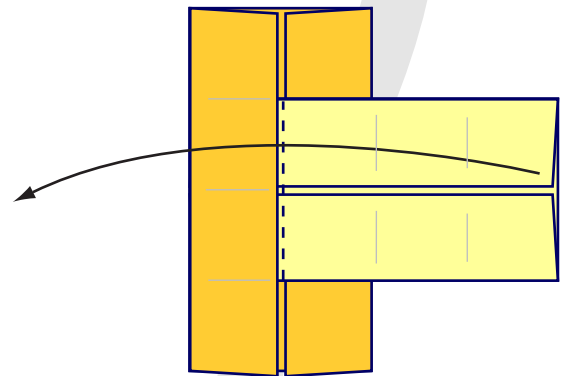


3b. For the joints, mountain fold and unfold the top and bottom to the middle line.

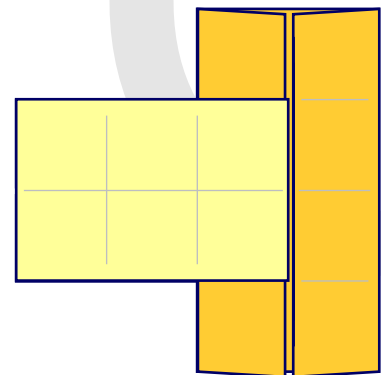
Assembling the Modules:



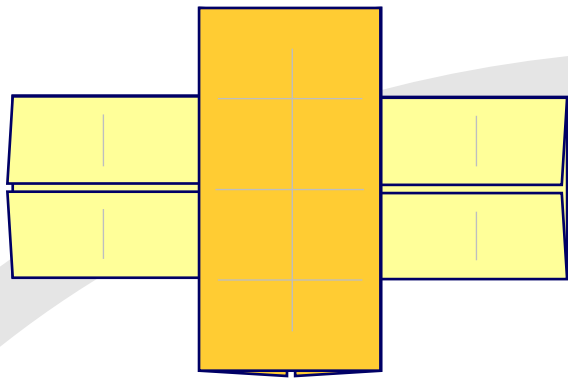
1. Insert one cover module into a bridge module as shown.



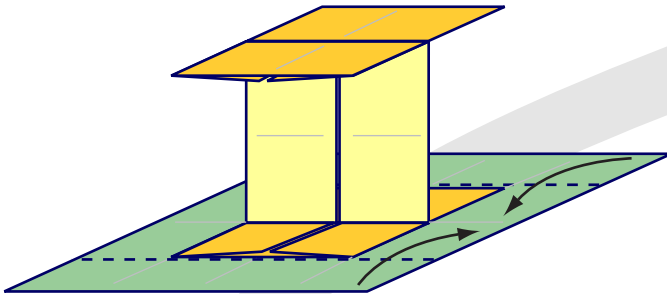
2. Valley fold the cover module over to the left.



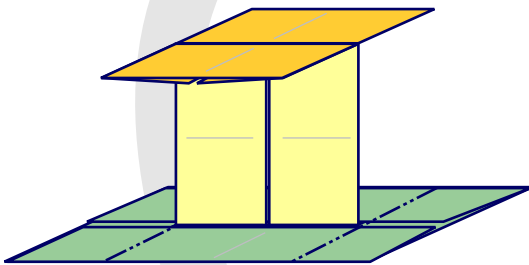
3. Like this. Insert and valley fold a second cover on the right side, then turn the model over.



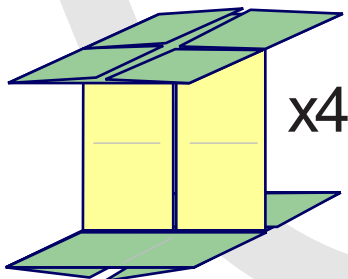
4. It should look like this. Take a second bridge module unfold it and place it on top.



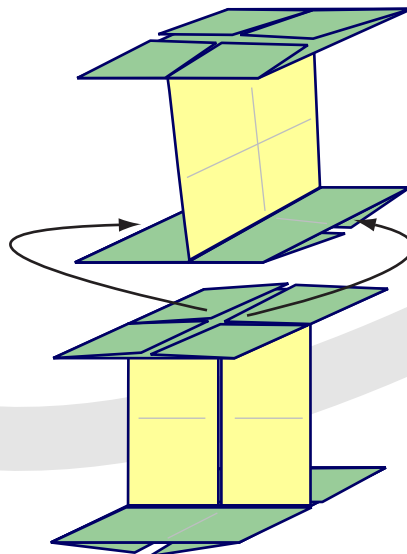
8. Place the whole thing on top of an unfolded joint unit. Valley fold the front and back edges of the joint unit over to the middle line.



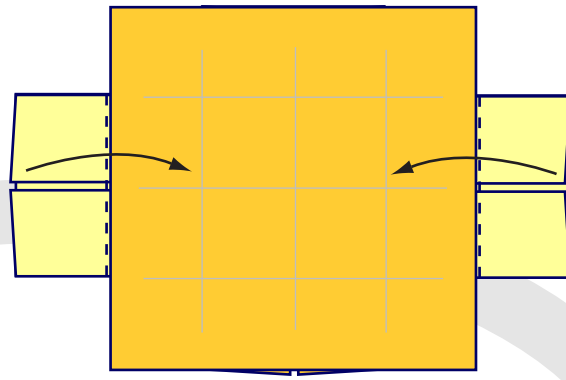
9. Mountain fold the flaps on the left and right down. Place a second joint unit on top in the same manner.



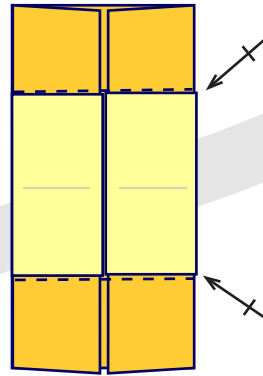
10. Make four such units.



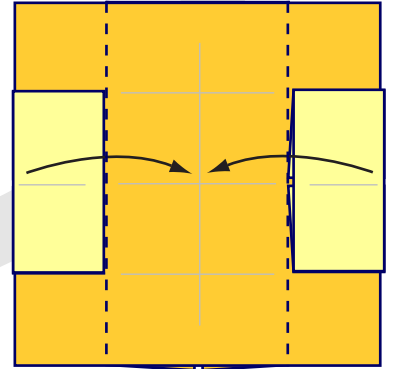
11. Insert the top flaps of one unit between the bottom flaps of another unit. Repeat until all four units are linked together:



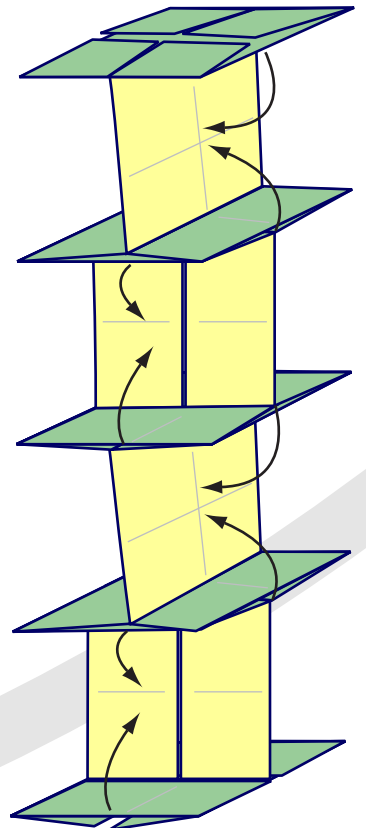
5. Valley fold the edges of the cover modules over as shown.



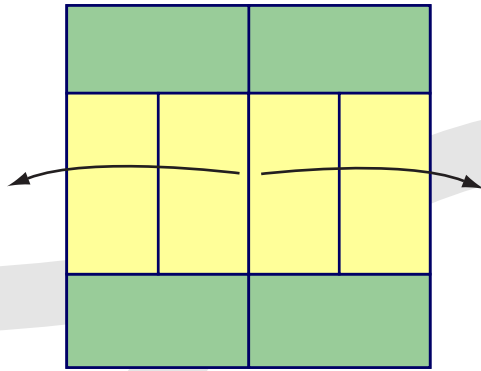
7. Valley fold the top and bottom layers so that they stay apart at an 90 degree angle. Repeat behind.



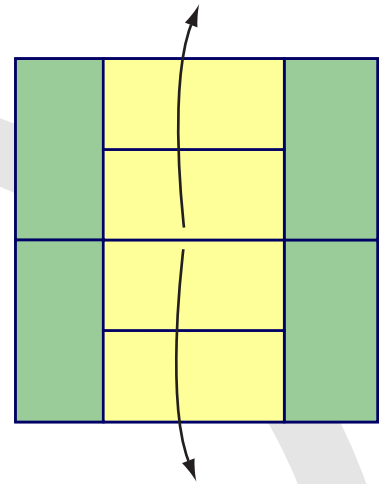
6. Valley fold the sides to the middle line.



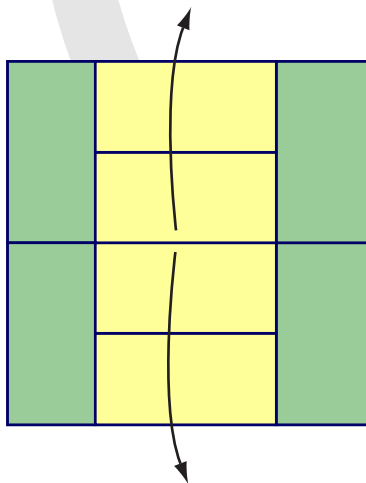
12. Like this. Flip the joints over as shown and close the last one like the others before.



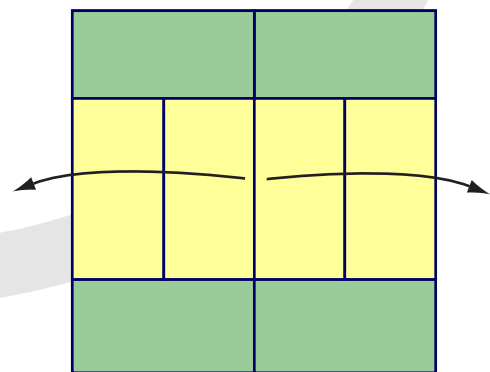
13. Done.
Now you can play with it.
Flip the middle flaps over to the sides.



14. Flip the middle flaps to the top and bottom.



16. Flip the middle flaps to the top and bottom.
Repeat until you get tired...



15. Flip the middle flaps over to the sides.