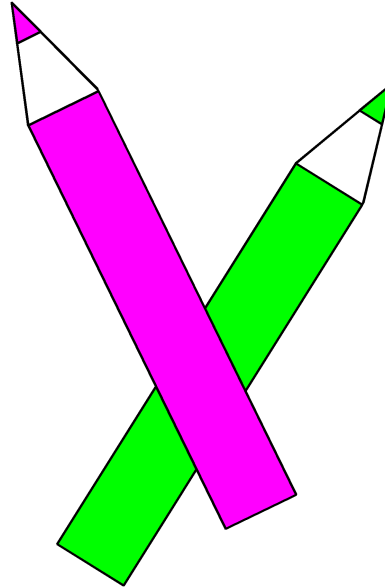


# Pencil

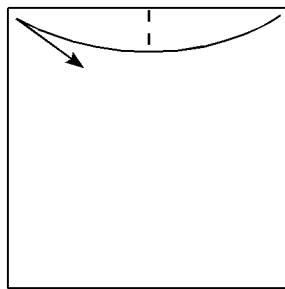
This design should rightly be considered a modern paperfolding classic, yet, as far as I am aware, it is not known who designed it. It is most probably of Japanese origin.

These diagrams show you how to fold Pencil from a 1x4 rectangle of irogami, paper that is white one side and coloured on the other. You can vary the dimensions of the starting rectangle to change the relative dimensions of the design. A shorter rectangle will produce a stubby pencil and a taller rectangle a thinner one.



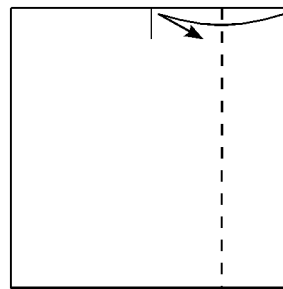
It is easy to obtain a 1x4 rectangle from a square. Begin with your square of irogami arranged white side up.

1



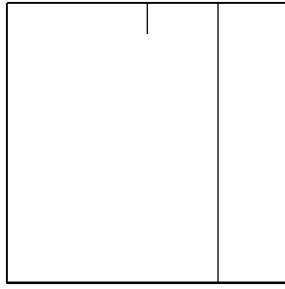
1. Fold in half sideways, then unfold, but only make a tiny crease to mark the centre of the top edge.

2



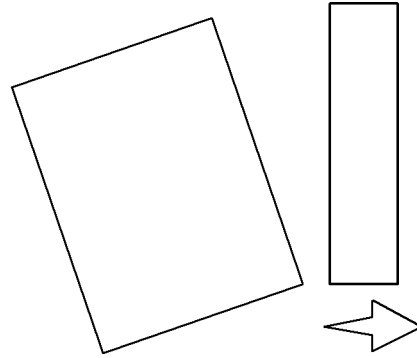
2. Fold the top of the right edge onto the tiny crease you made in step 1. Make sure the top and bottom edges of both layers are accurately aligned, crease firmly, then unfold.

3



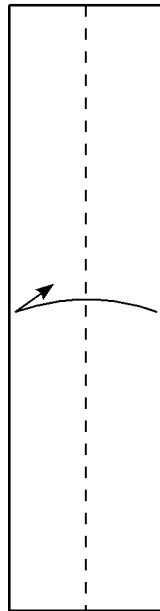
3. Cut along the vertical crease to separate the two parts of the paper.

4



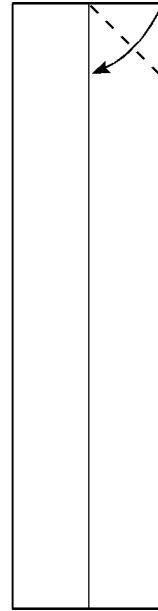
4. Only the smaller part is required. The next picture has been drawn on a larger scale.

5



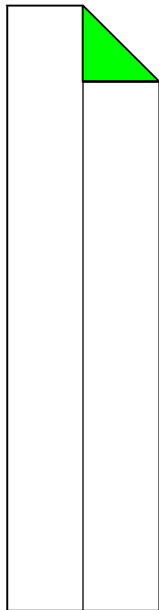
5. Fold in half sideways, then unfold.

6



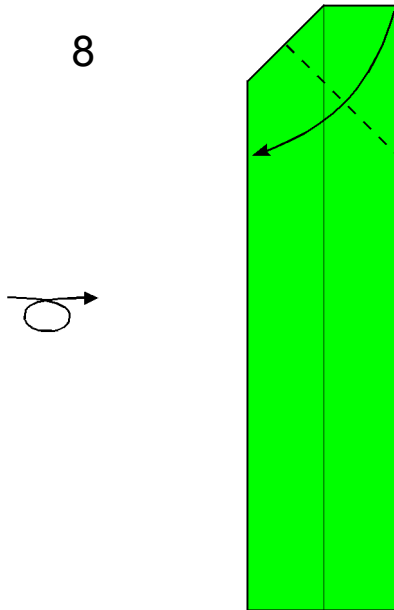
6. Fold the top right corner inwards like this using the upright centre crease as a guide.

7



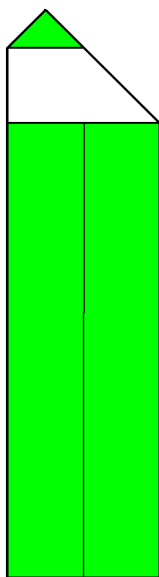
7. Turn over sideways.

8



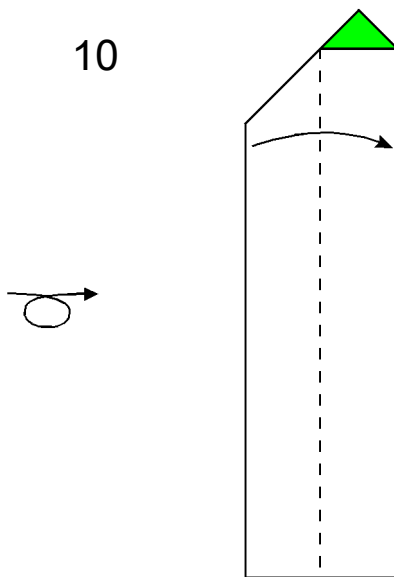
8. Fold the top edge onto the left edge.

9



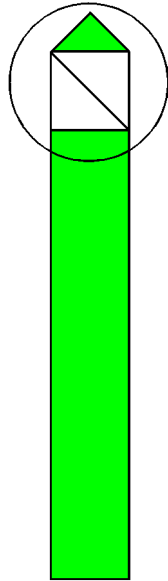
9. Turn over sideways.

10



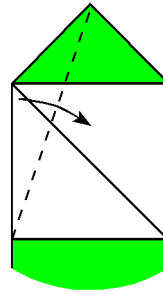
10. Fold the left edge onto the right edge using the existing crease.

11



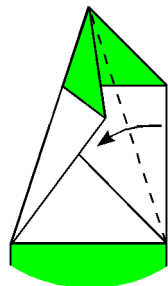
11. Your pencil now needs sharpening. The next picture just shows the part of the paper that lies inside the circle.

12



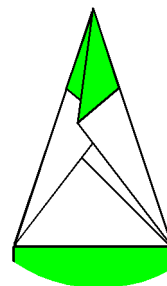
12. Fold the top left corner inwards making sure the new crease begins at the bottom left corner of the white area and ends at the top point.

13



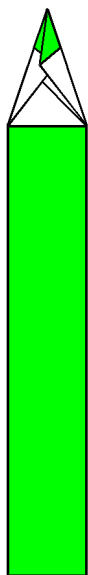
13. Repeat fold 12 on the right hand side. Make sure the top point remains sharp.

14



14. Your pencil has been sharpened.

15



15. Turn over sideways.

16



16. Pencil is finished.



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