

# Head to Head

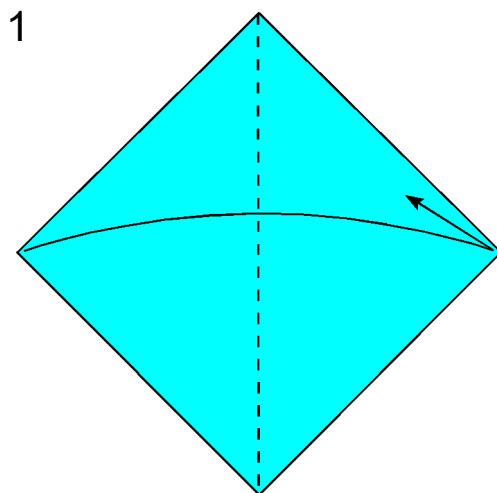
Designed by David Mitchell

Head to Head is a minimalist origami version of the famous faces/candlestick optical illusion. As well as creating a paperfolded version I have also taken the opportunity to alter the illusion by so that it also works upside down.

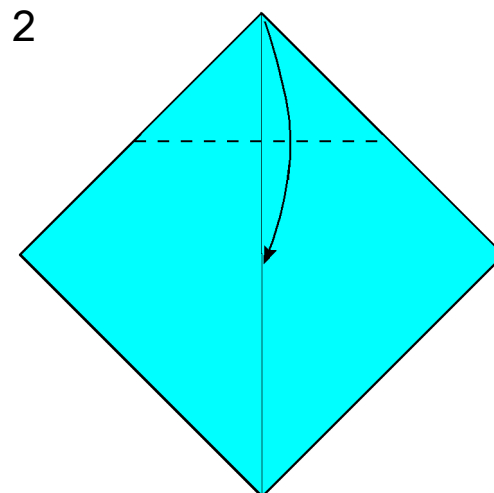
Head to Head was designed in 2000. It was inspired by an earlier paperfold of the same subject by Masatsugu Tsutsumi.



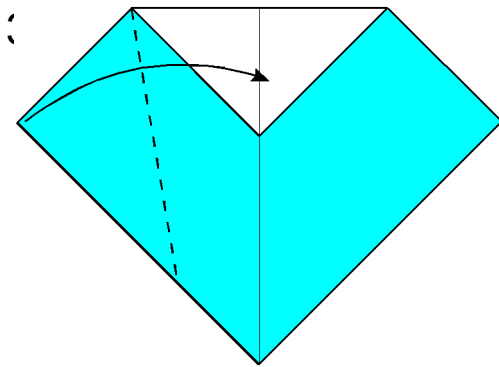
You will need a single square of irogami. Begin with your paper arranged coloured side up.



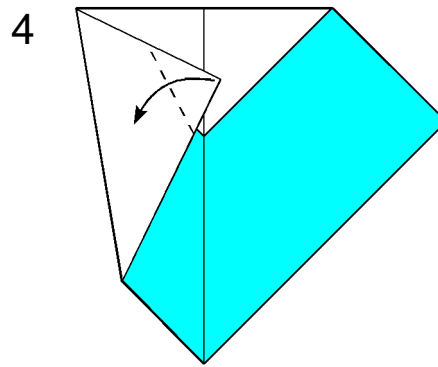
1. Fold in half sideways, then unfold.



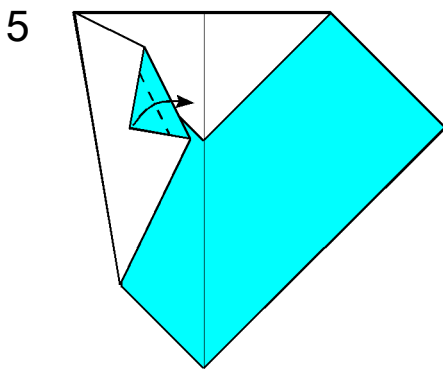
2. Fold the top corner downwards to approximately the centre point of the square. Do this as accurately as possible by eye alone.



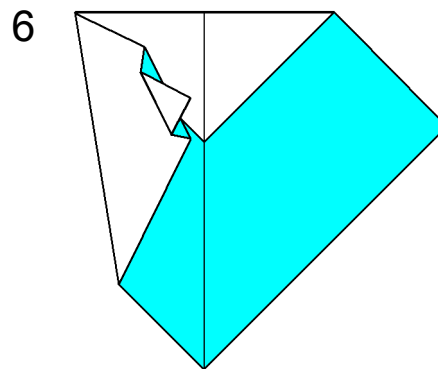
3. Fold the left hand corner inwards. Picture 4 shows what the result should look like. Note that the outside edge does not quite touch the corner of the white



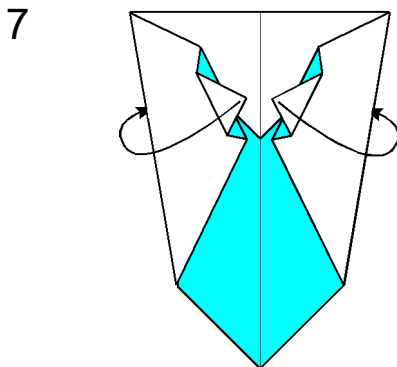
4. Fold the corner of the top layer outwards again.



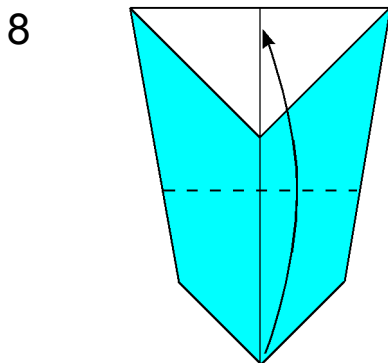
5. Fold the corner of the coloured triangle inwards to form the nose. Make sure that neither the chin nor the nose touch the vertical centre crease.



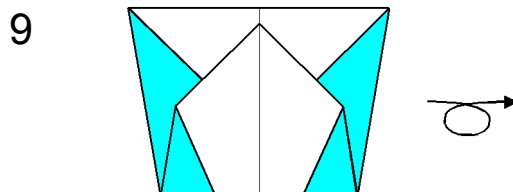
6. Repeat folds 3, 4 and 5 on the right hand half of the paper. It is important to get both sides of the paper evenly balanced.



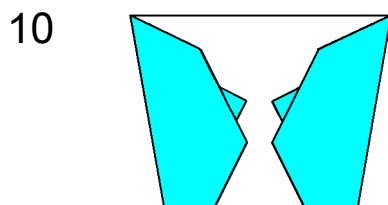
7. Swing both flaps out of sight by reversing the existing creases.



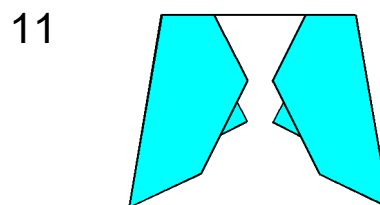
8. Fold the bottom corner upwards to just below the top edge.



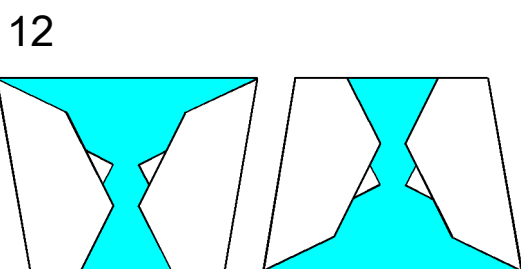
9. Turn over sideways.



10. This way up Head to Head can be seen as a pair of relaxed faces or a chalice.



11. This way up Head to Head can be seen as a pair of aggressive faces or a candlestick.



12. By beginning with your paper arranged white side up you can produce a version of Head to Head in which the chalice/candlestick rather than the faces are emphasised.

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