

20 ORIGINAL MODELS BY WORLD-FAMOUS ORIGAMI ARTISTS

Origami Fish and Other Sea Creatures

Nick Robinson

Viviane Berty

Marc Kirschenbaum

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TUTTLE

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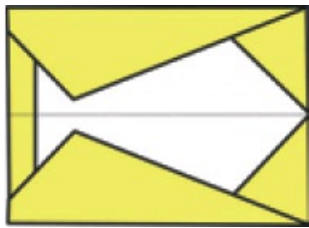
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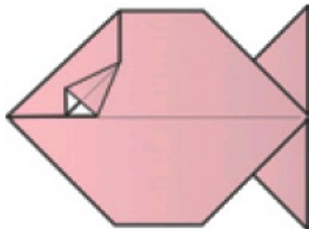
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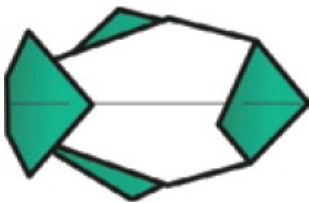
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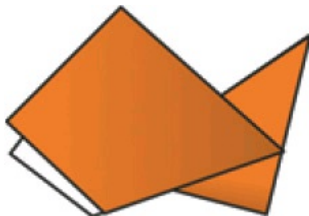
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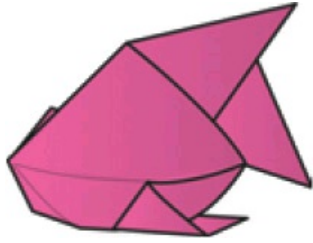


Multiform Fish ✨

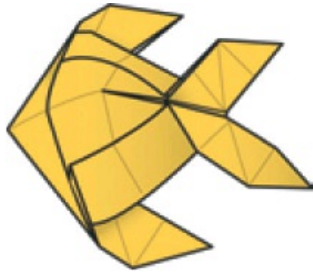


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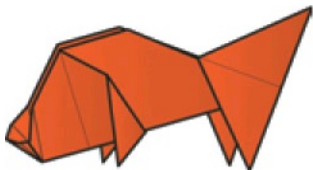
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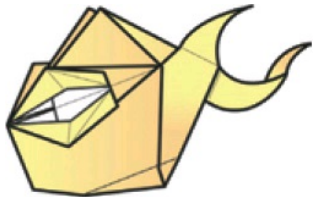
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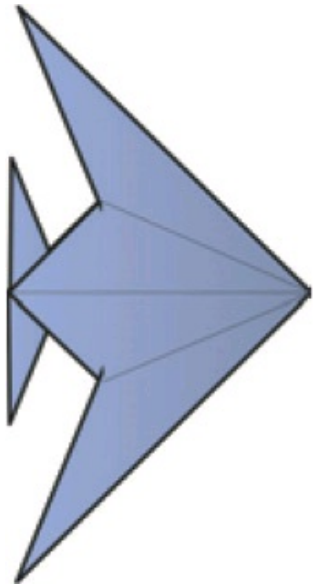
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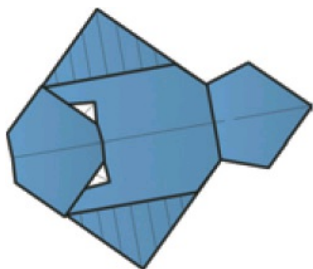
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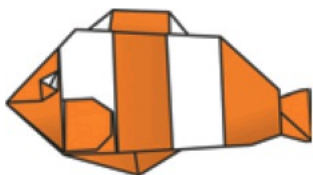
Angel Fish ✨ ✨



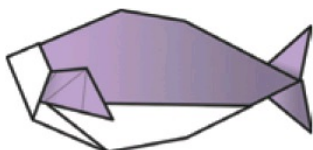
Flatfish ✨ ✨



Clownfish ★★



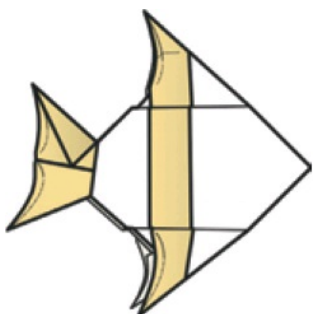
Carp ★★★



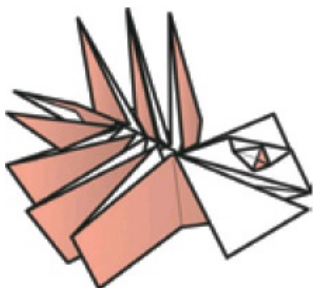
Swimming Fish ★★★



Moray Eel ★★★

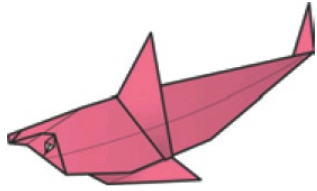


Banded Angelfish ★★★★

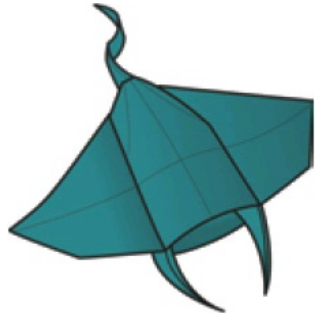


Fish Bones ★★★★

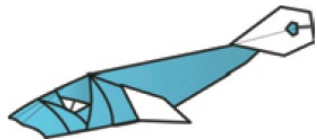
Shark ★★★★



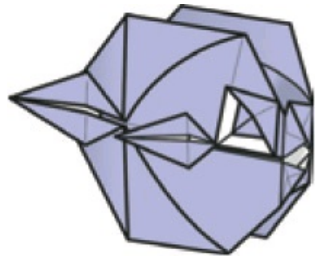
Manta Ray ★★☆☆



Koi Carp ★★☆☆



Puffer Fish ★★☆☆



Levels of Difficulty

Easy	★
Medium	★★
Challenging	★★★
Difficult	★★★★

How to Download the Folding Demonstration Videos for this Kit

1. You must have an Internet connection.

2. Click the link below or copy paste the URL to your web browser.

<http://www.tuttlepublishing.com/origami-fish-and-other-sea-creatures-kit-demos>

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Make Your Fish Live and Breathe



Fish are a vital part of the world we live in—they provide around 5 billion people with food. They are also diverse, with over 28,000 different species. They range in widely different sizes, shapes and colors. Origami has a wide range of different styles; from simple to complex, from realistic to caricature. The fish in

this book range from simple to rather difficult, although there are many complex designs out there with well over 100 steps!

One of the traditional origami bases is called the “Fish Base,” because it quickly transforms into a fish with a couple of folds. The “Telescope Goldfish” (page 21) starts with this base. However, origami designers have developed a wide range of different approaches to folding a fish, carefully engineering the paper to provide flaps where you need them (for example, the tail fins). Some designs also use the different sides of the paper to create areas of different colors within the model.

While many models are essentially flat, some designs presented here allow you to “round” the paper, so it becomes three-dimensional. Some paper is better for this purpose than others; please experiment with your folding material. Try also to select paper with suitable colors and patterns to show your creation to its best effect. You can also try hanging groups of them from threads so they turn in a gentle breeze.

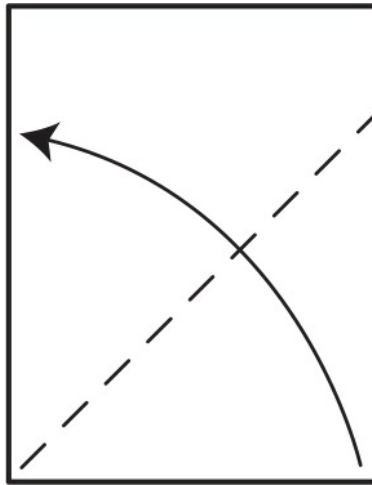
The ability to adapt an existing design allows you to make many different variations. Remember, when folding a model, always use your imagination – if you can change a design by altering folds, angles and distances, you should do so and try to create a brand new model. Obviously, you should aim for accuracy when folding, but also try to be sensitive to the paper and to aim for elegance and beauty – make your fish live and breathe.

—Nick Robinson

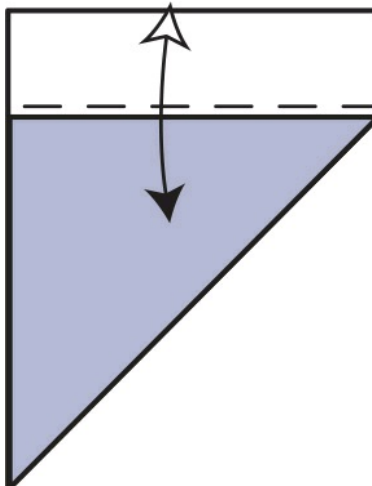


Origami Techniques

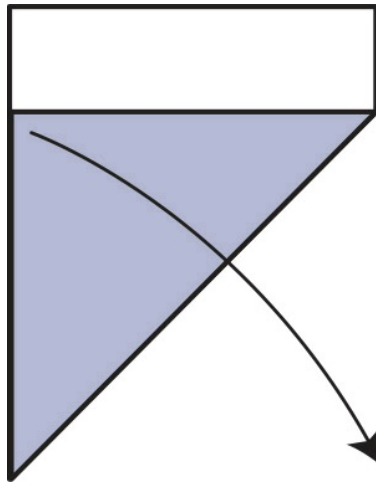
Origami usually requires paper that is perfectly square. When you have used all the sheets in this kit you'll need to source your own paper. Here is a simple method for creating a square from a rectangle:



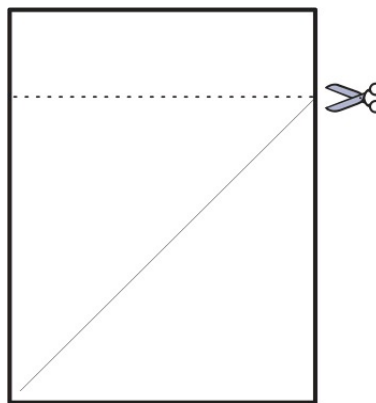
1 Fold a short edge to a long edge.



2 Fold the surplus paper over the edge, crease and unfold.

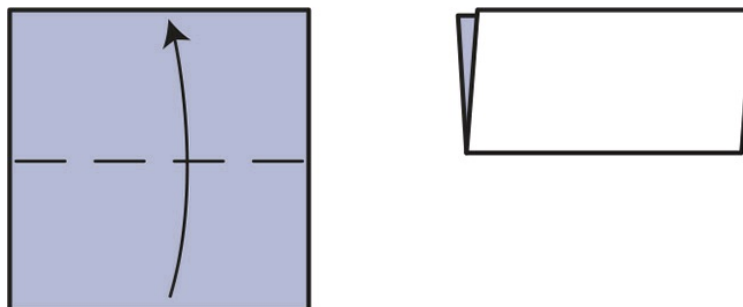


3 Unfold the paper fully.

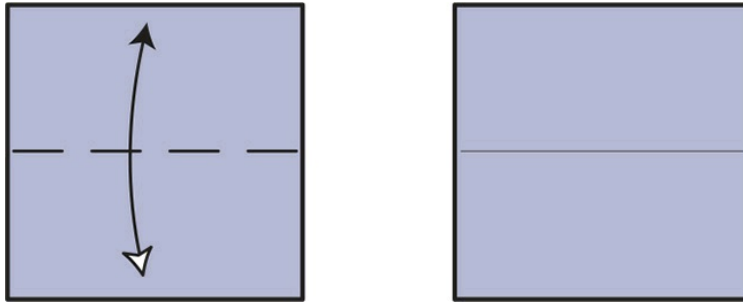


4 Cut off the surplus paper to leave a square.

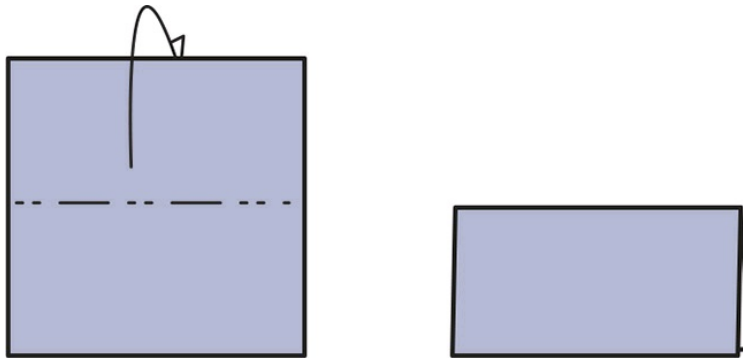
Basic Folding Techniques



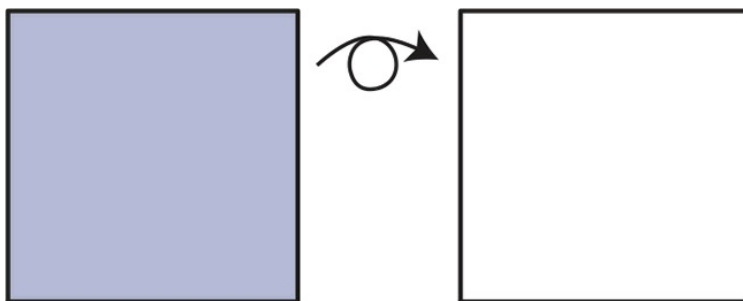
Valley fold—folding the paper in the usual way.



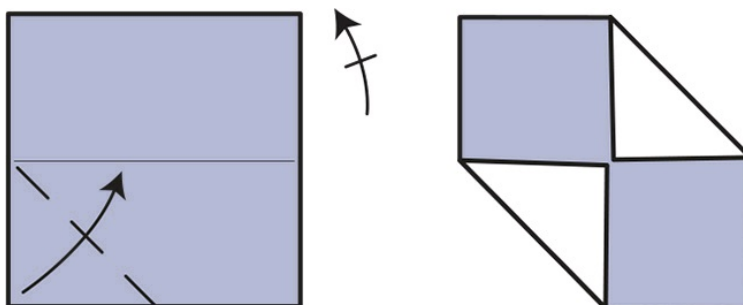
Valley fold and unfold—make a crease, and then unfold it.



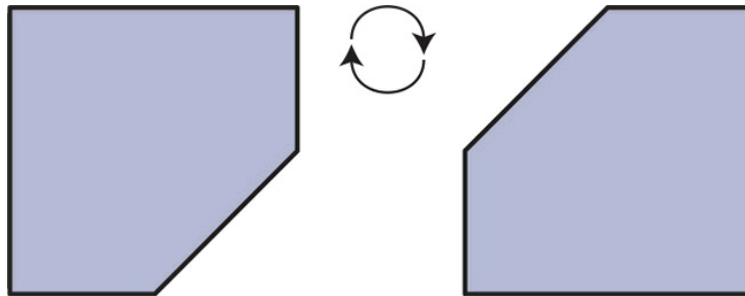
Mountain fold—folding a flap or layer behind. This can usually be made as a valley fold by turning the paper over.



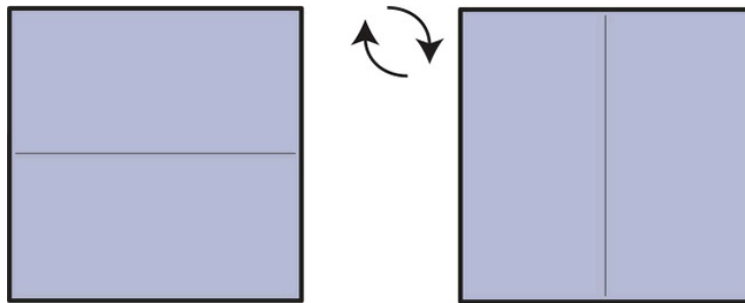
Turn over—lift the paper up and turn it upside down, like flipping a pancake.



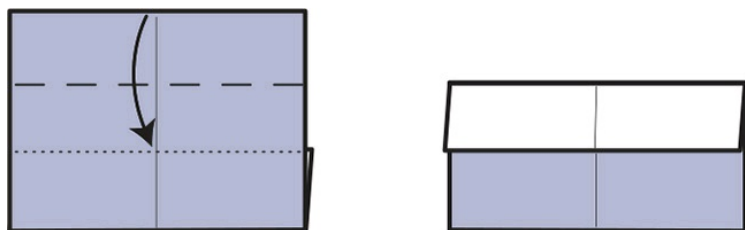
Repeat arrow—whatever move you have made is repeated elsewhere on the paper. The arrow may give you specific steps to repeat and/or show how many times to repeat the step.



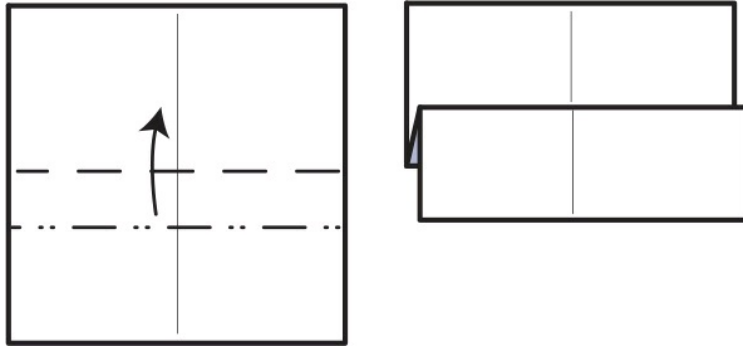
Rotate 180 degrees—turn the paper in the direction of the arrow, so the lowest edge becomes the uppermost edge.



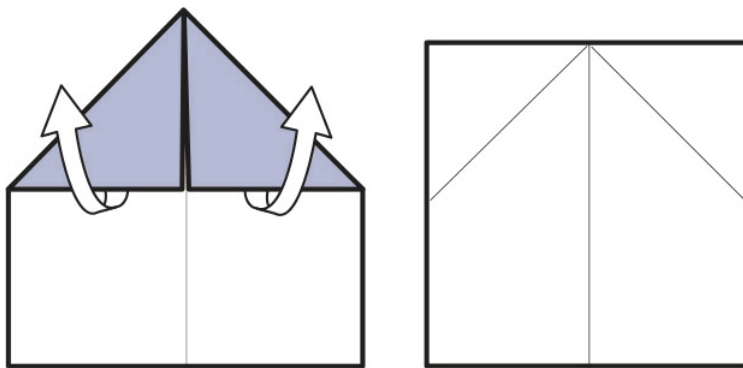
Rotate 90 degrees—turn the paper in the direction indicated by the arrow.



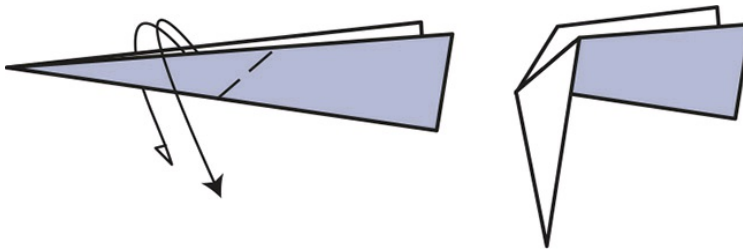
Fold to dotted line—a dotted line shows an imaginary crease or edge as guidance for a fold.



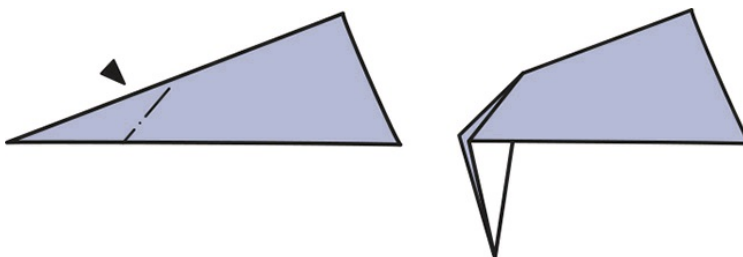
Pleat—this is a combination of valley and mountain folds, which are made at the same time.



Pull out—where flaps of layers are unfolded to a previous position.

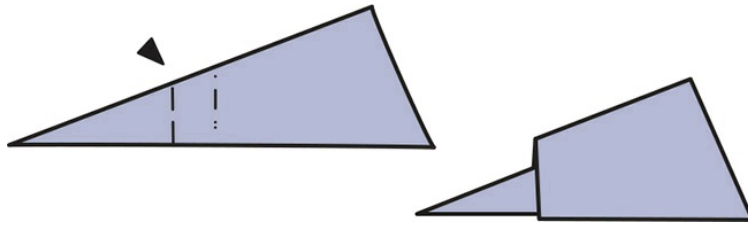


Outside reverse fold—the paper is wrapped around the outside. This fold is usually precreased before forming.

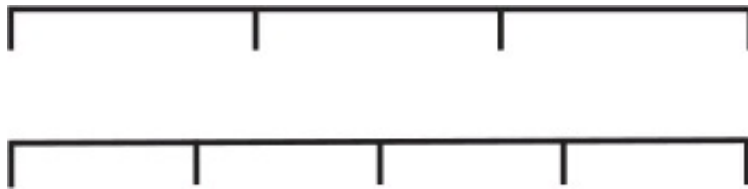


Inside reverse fold—the paper is pushed inside existing layers. This

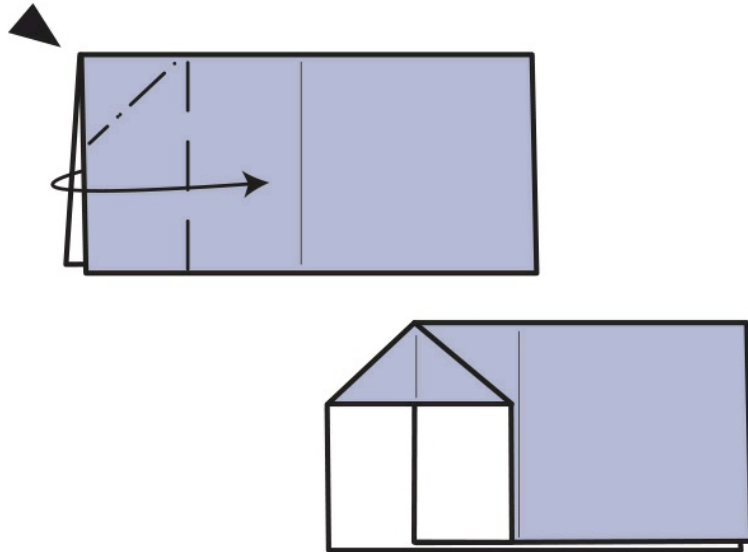
fold is usually precreased before forming.



Crimp—a black arrowhead indicates that you will be applying pressure to the paper somewhere. Here the symbol is used with a “crimp fold.”

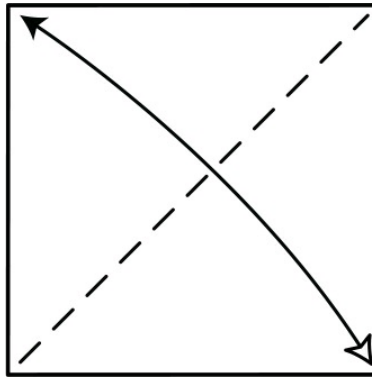


Fold equal distances—this is usually a general guide, rather than one that requires accuracy.

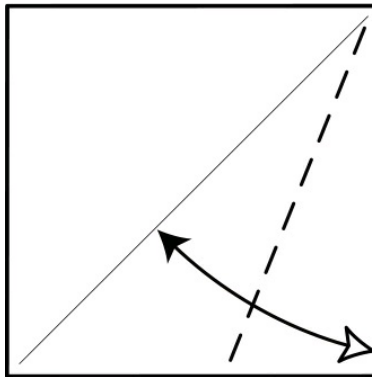


Squash—a black arrowhead indicates that you will be applying pressure to the paper somewhere. Here the symbol is used with a “squash fold.”

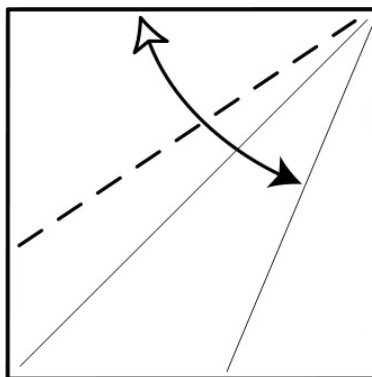
Folding Thirds



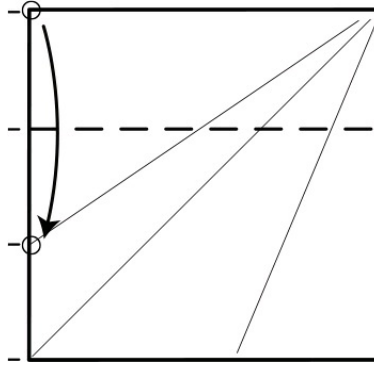
1 Crease and unfold a diagonal.



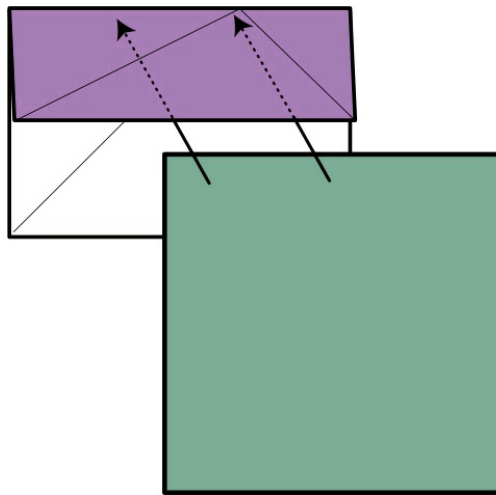
2 Fold to the diagonal, crease and unfold.



3 Fold the upper edge to the recent crease, and then unfold.

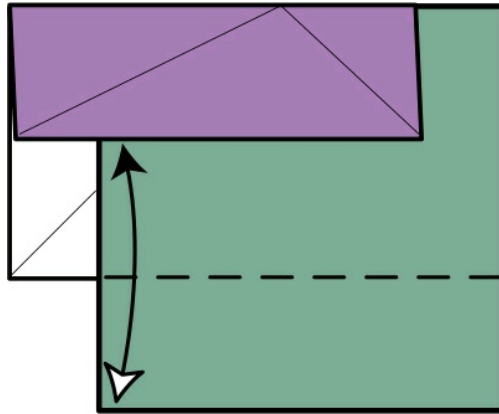


4 Fold so the circled points meet. This is your template.

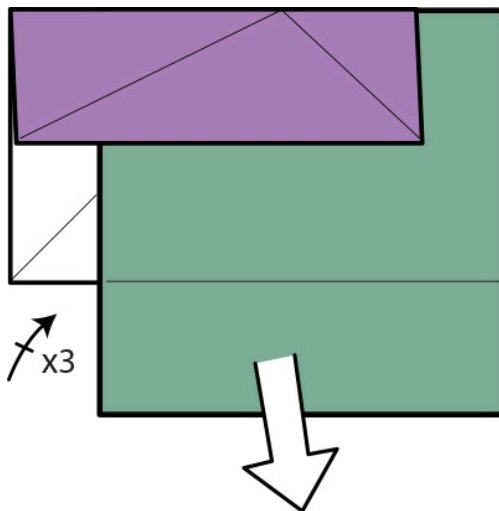


5 Slide a sheet into the template so the upper edge meets the crease.





6 Fold the lower edge to the template's colored edge, crease and unfold.



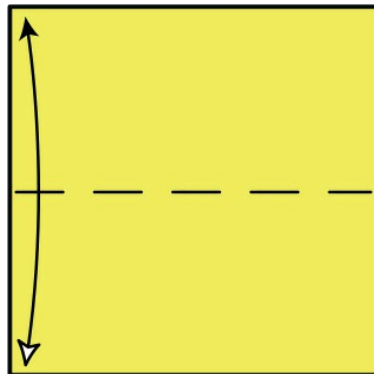
7 Remove the inner sheet, rotate and repeat 3 times.



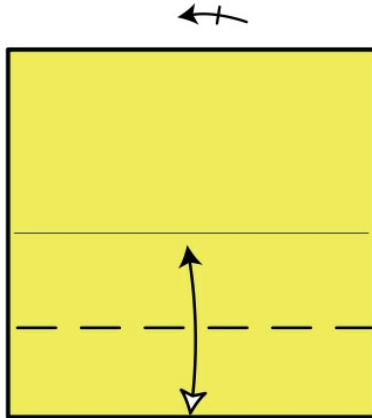


Fish Silhouette by Nick Robinson

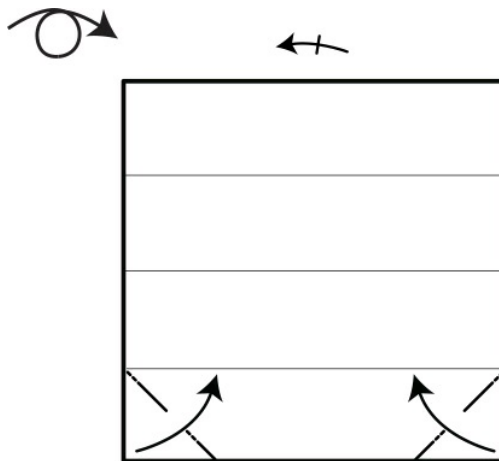
A few simple folds will give us a fish. If you hold it up to the light, you can see the silhouette. Try to create your own designs by altering step 5.



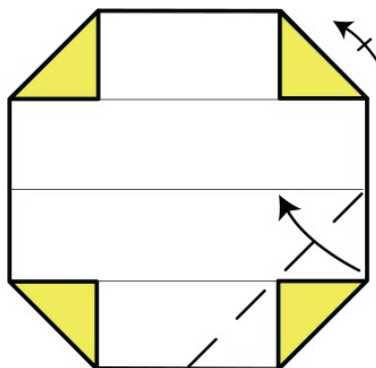
1 Colored side upward, fold in half, crease and unfold.



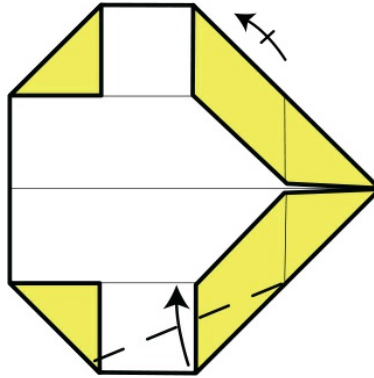
2 Fold the lower edge to the center, crease and unfold. Repeat at the top. Turn the paper over.



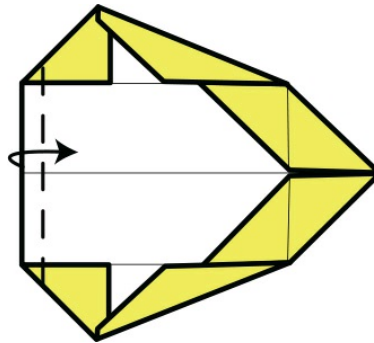
3 Fold in the lower corners to lie on the crease. Repeat at the top.



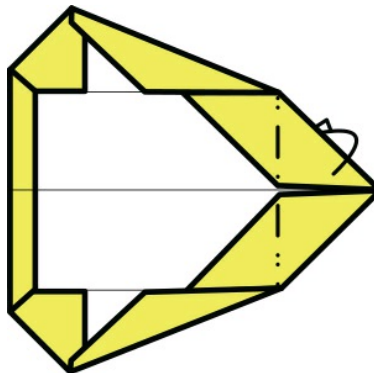
4 Fold the lower half of the white edge to touch the horizontal crease. Repeat at the top.



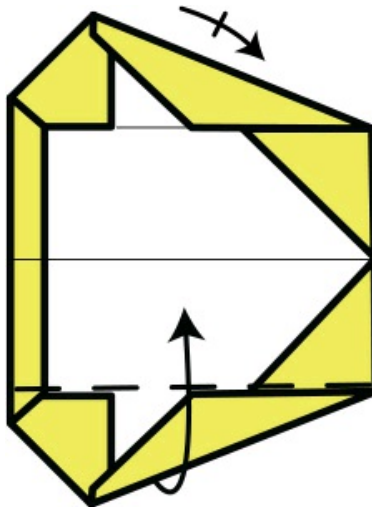
5 Fold the lower colored edge to touch the horizontal crease. Repeat at the top.



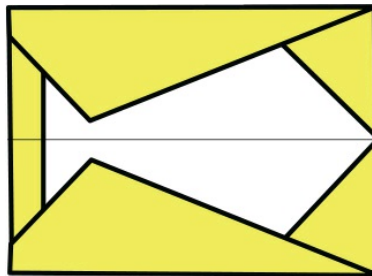
6 Fold over the left edge a little way.



7 Fold a triangular flap behind.



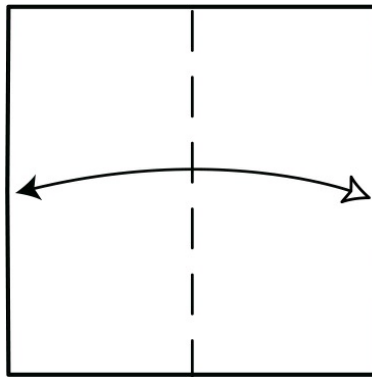
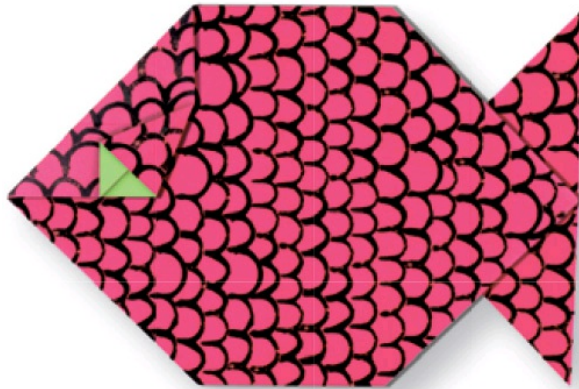
8 Fold the lower section inward. Repeat at the top.



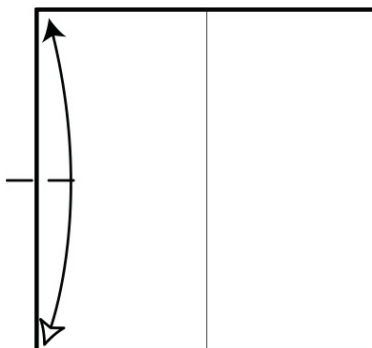


Simple Fish by Nick Robinson

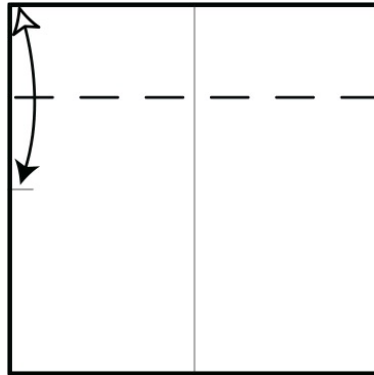
A development of a traditional design, this is a simple but instantly recognizable fish.



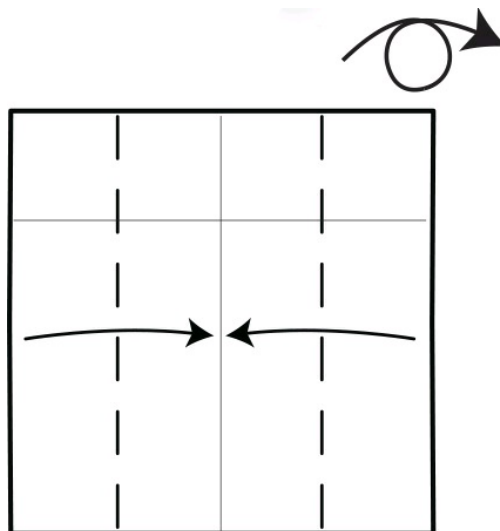
1 White side up, fold in half, and then unfold.



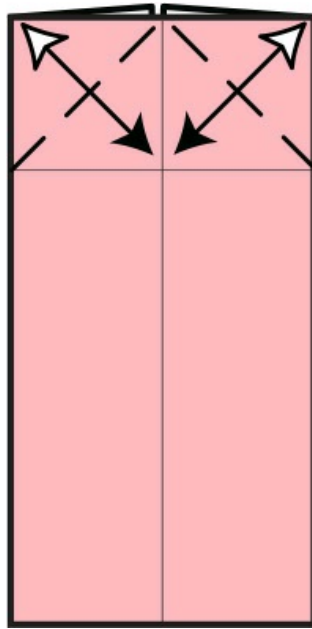
2 Make a small pinch to mark the center point.



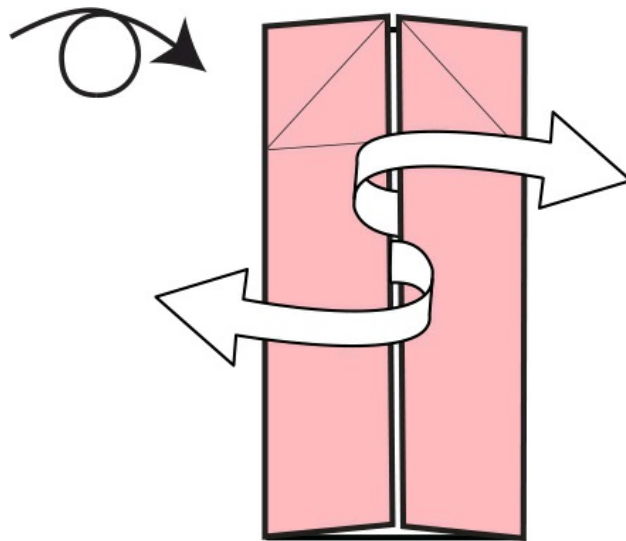
3 Fold the upper edge to the pinch, crease and unfold.



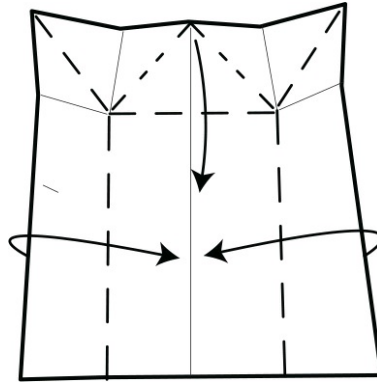
4 Fold left and right edges to the vertical center. Turn the paper over.



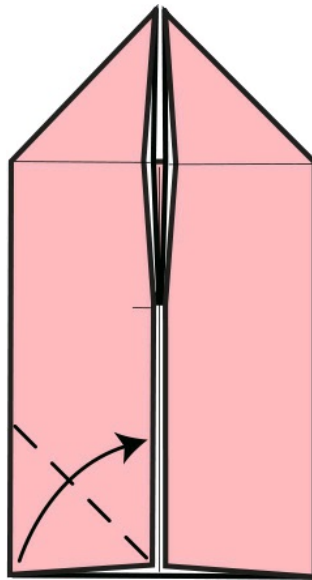
- 5** Fold the top corners to the vertical center crease, and then unfold. Turn the paper over.



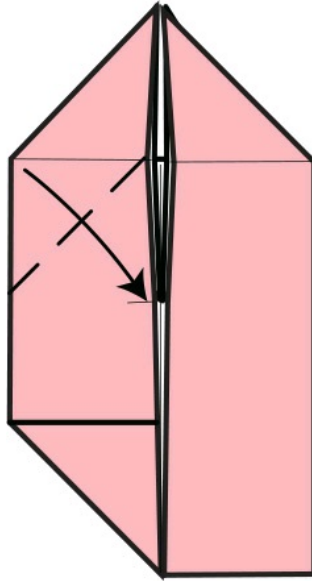
- 6** Unfold the flaps, but don't flatten the paper.



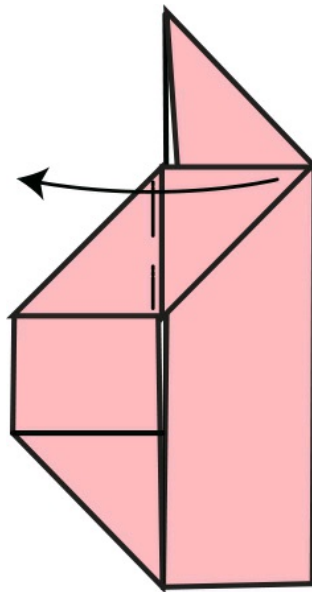
7 Fold the sides inward, at the same time fold down the top center point. All the creases are already there.



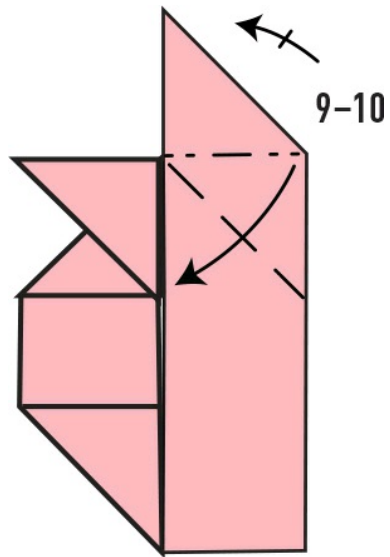
8 Fold the lower left corner inward.



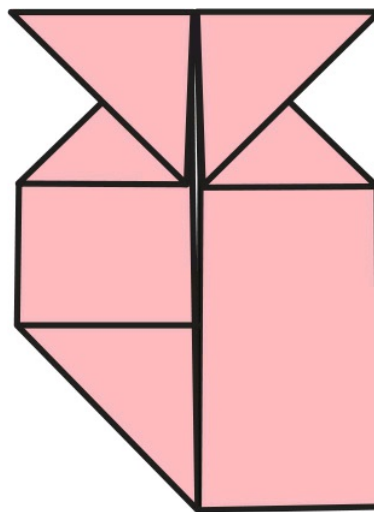
9 Fold the corner to the pinch mark.



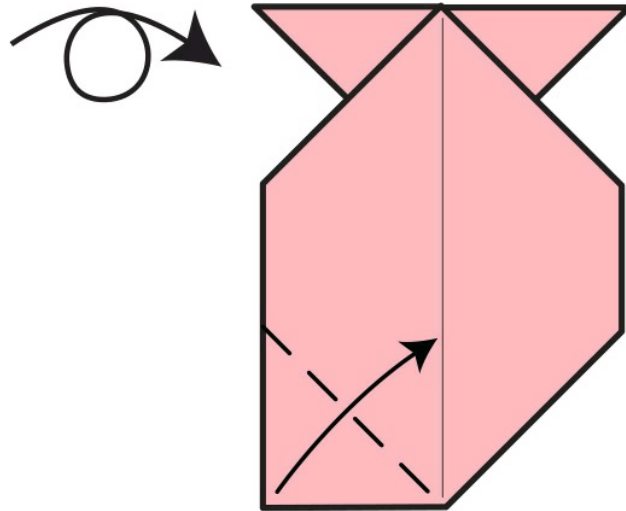
10 Fold a single flap to the right.



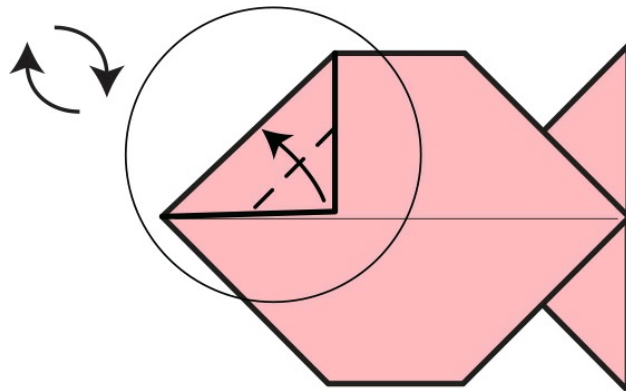
11 Repeat steps 9–10 on the right.



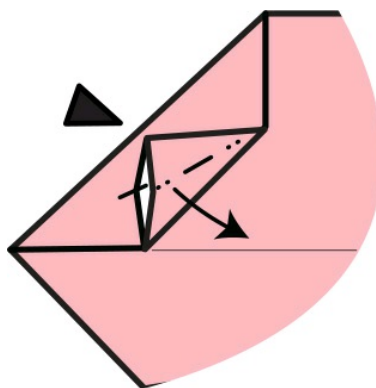
12 The model so far. Turn the paper over.



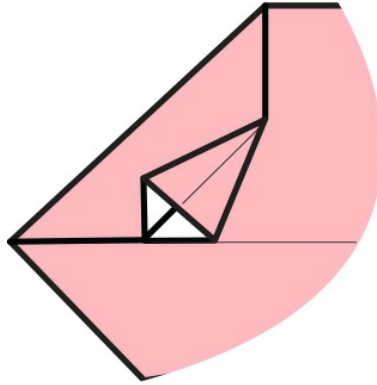
13 Fold a corner inward. Rotate the paper.



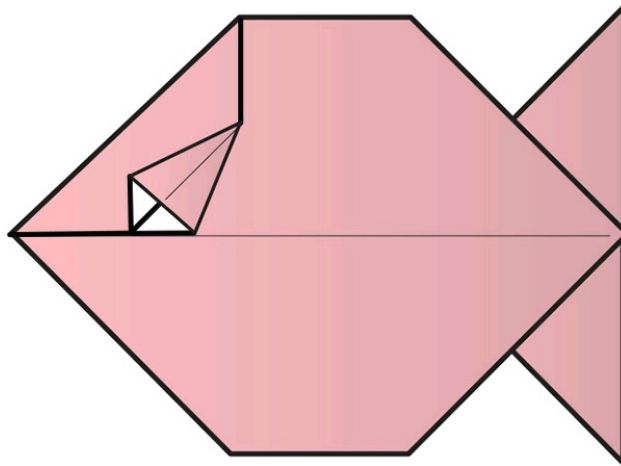
14 Fold over the corner.



15 Lift the flap and squash it open.



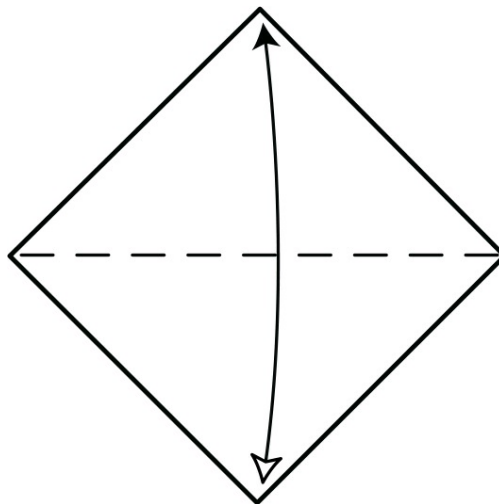
16 The eye is complete.



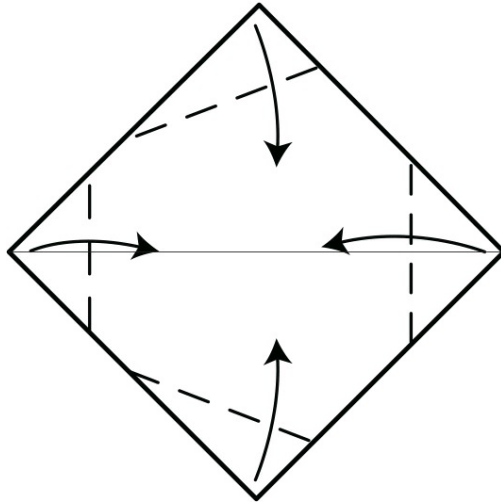


Multiform Fish by Viviane Berty

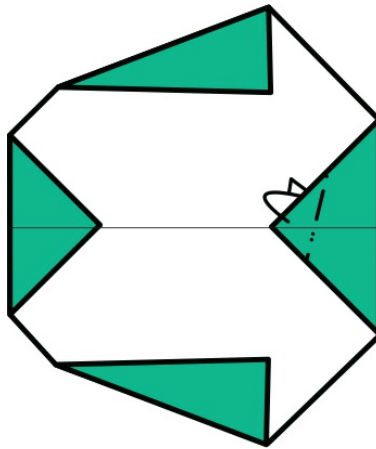
This design allows you to experiment with your creative side. Varying the creases in steps 2, 5 and 6 allows you to design many different types of fish.



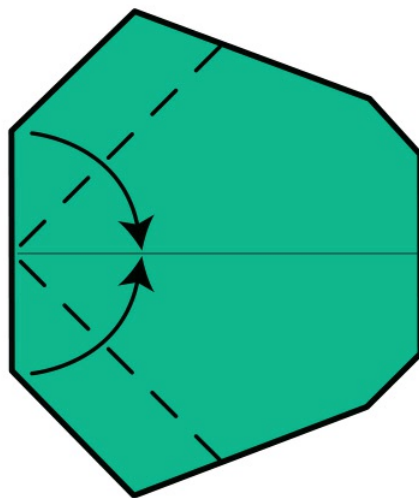
1 Fold in half, crease and unfold.



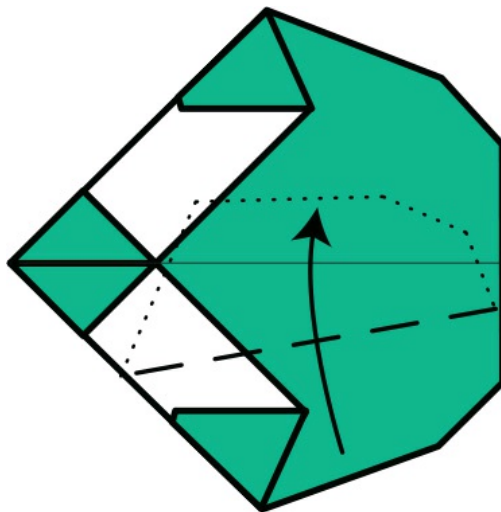
2 Fold the corners in as shown.



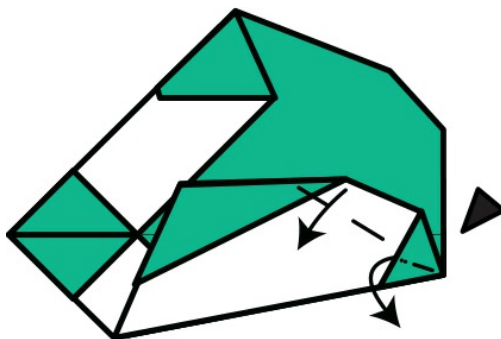
3 Fold a corner behind. Turn the paper over.



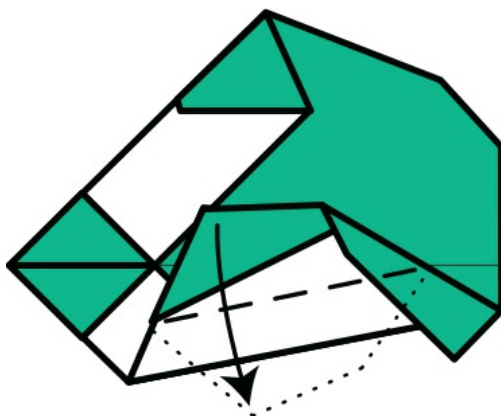
4 Fold each half of the left edge to the center crease.



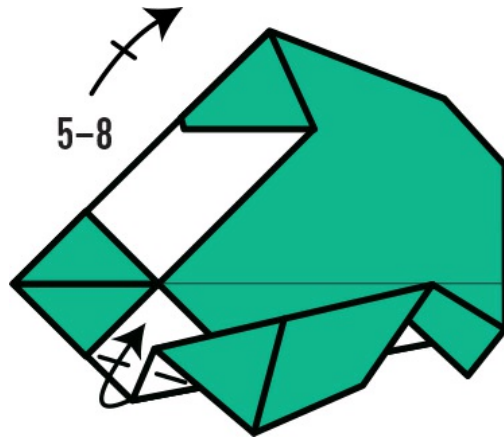
5 Fold the lower flap upward.



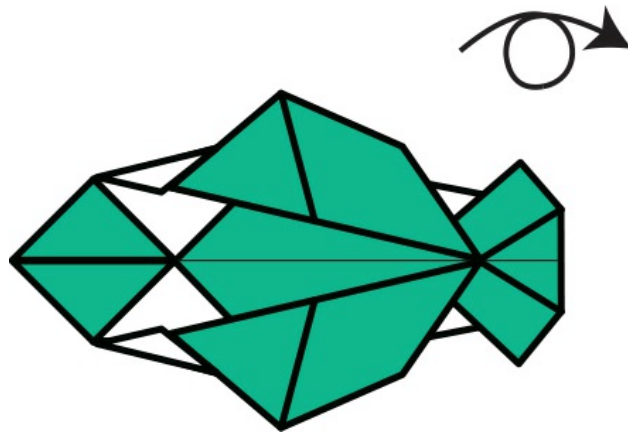
6 Open and flatten out the lower pocket.



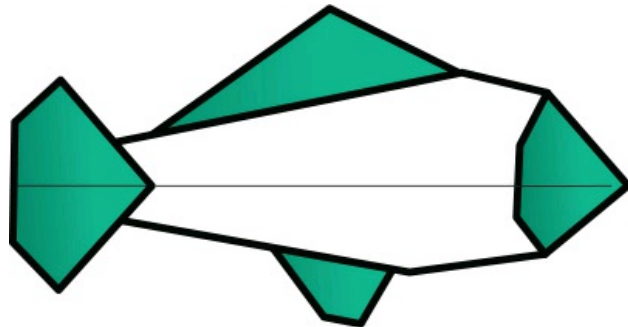
7 Fold the flap down.

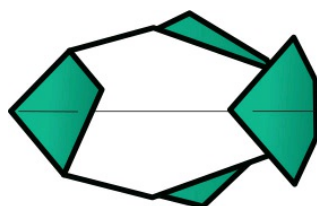
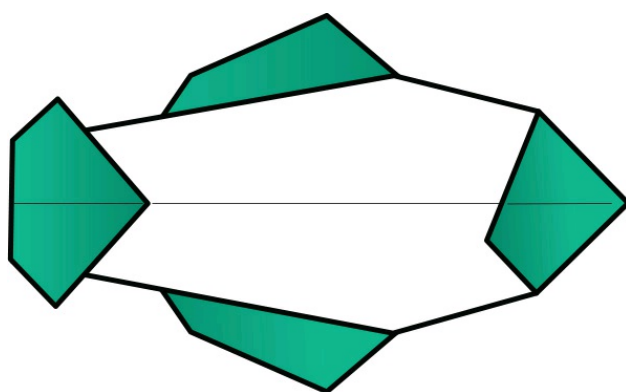


8 Fold in a corner. Repeat steps 5–8 on the upper half.



9 The result. Turn the completed model over.

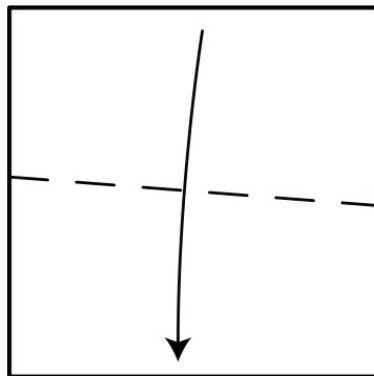




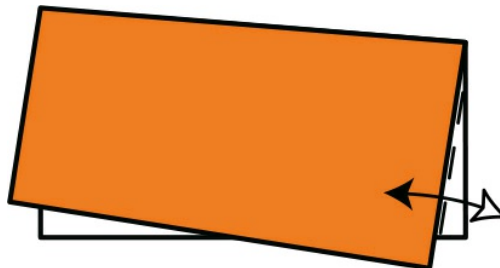


Pureland Fish by Marc Kirschenbaum

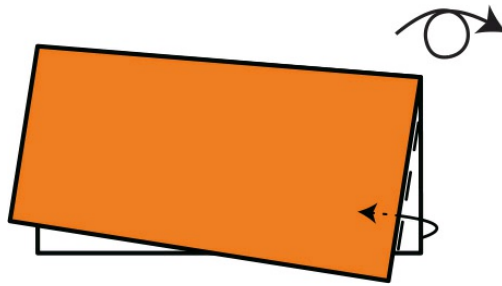
Pureland designs are those which only use the simplest of valley and mountain folds, so they are easier for beginners to fold and enjoy.



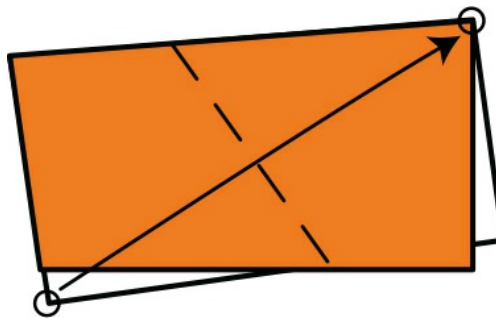
1 White side up, fold over at a slight angle.



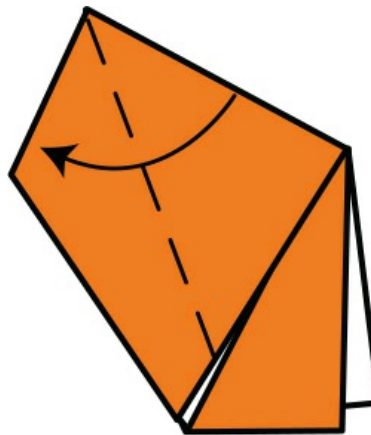
2 Fold the white section over the colored edge, crease and unfold.



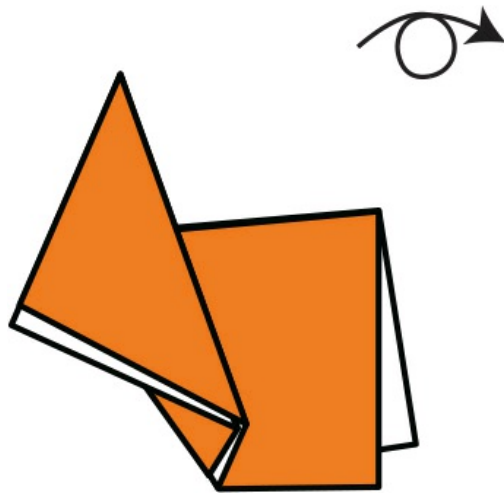
3 Tuck the white flap under the colored flap. Turn the paper over.



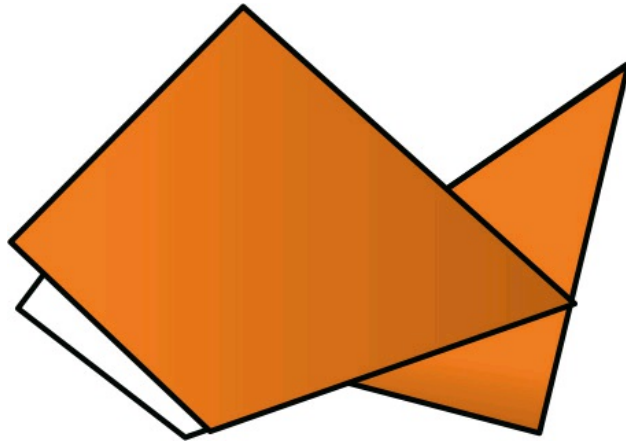
4 Fold the lower left corner to the upper right corner.



5 Fold the upper right edge to the upper left edge.



6 The result. Turn the paper over.

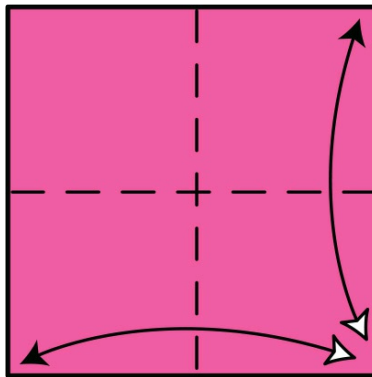


7 Done.

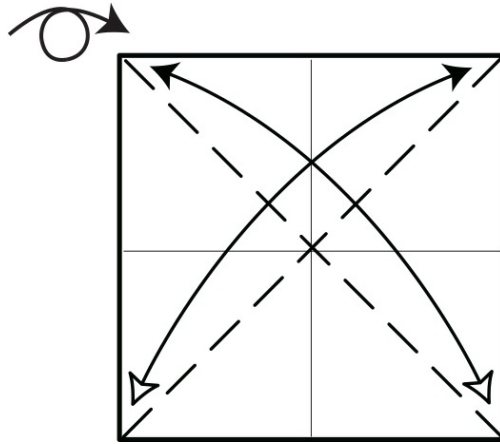


Bubblefish by Simon Anderson

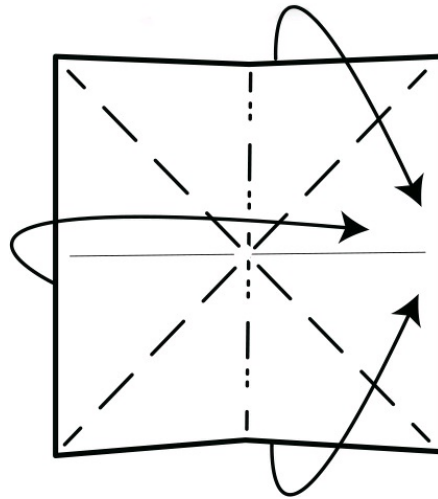
This design is flat until the very end, when you inflate it with a puff of air.



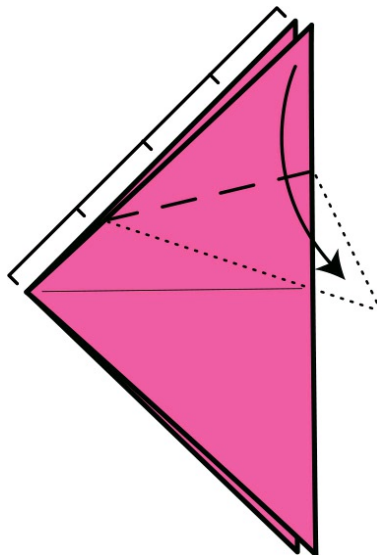
- 1 Colored side up, fold in half from side to side, crease and unfold, in both directions. Turn the paper over.



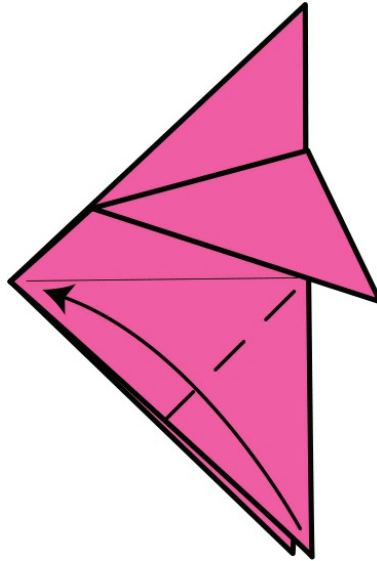
2 Crease and unfold both diagonals.



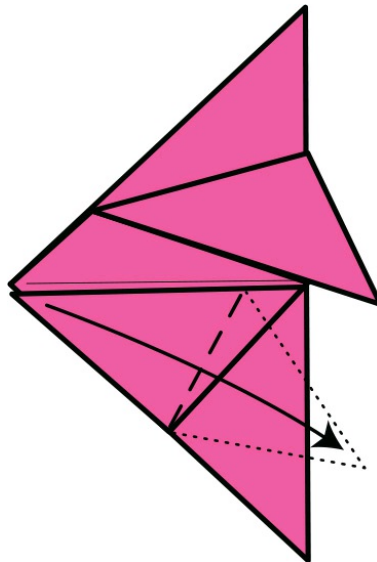
3 Fold the left edge to the right, using these creases.



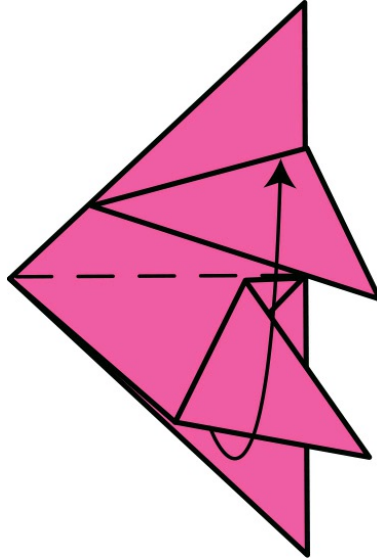
4 Fold a single flap over to touch the horizontal crease.



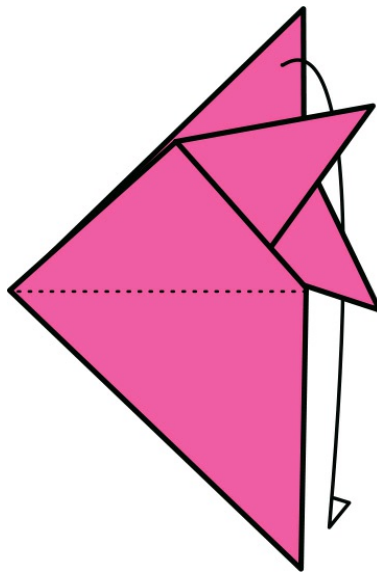
5 Fold the lower corner to the left corner.



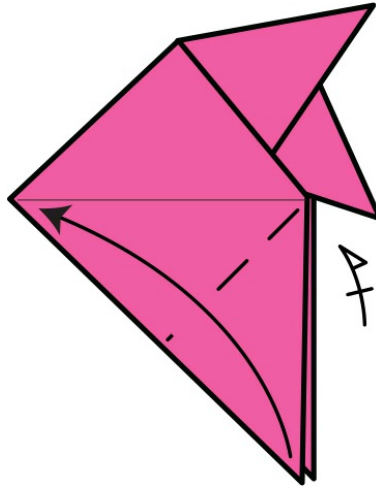
6 Fold the same flap back and down.



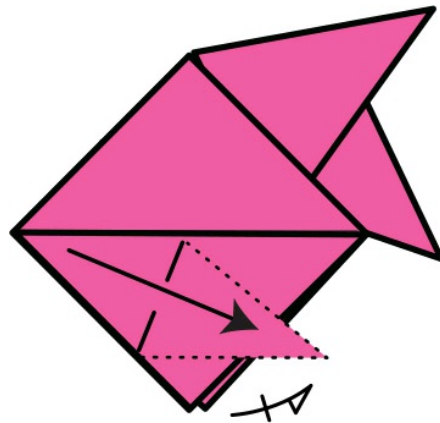
7 Swing the lower flap upward.



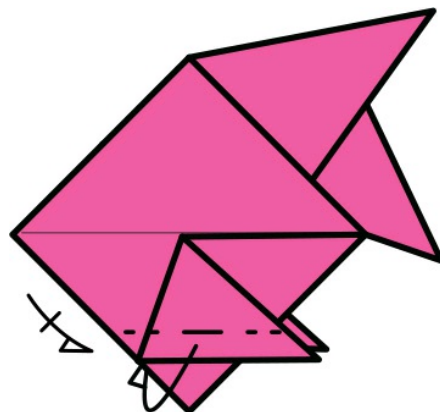
8 Fold the rear flap downward.



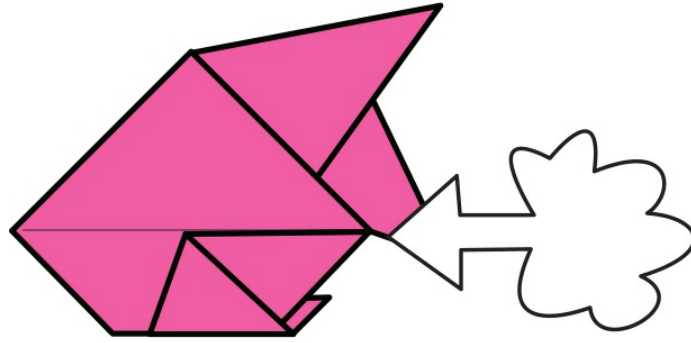
9 Fold the lower corner to the left corner, on both sides.



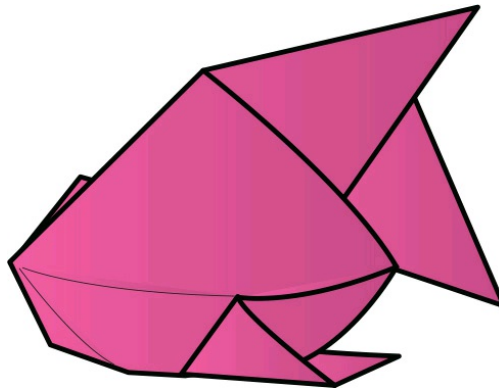
10 Fold a flap down, repeating underneath.



11 Fold inside the model, repeating underneath.



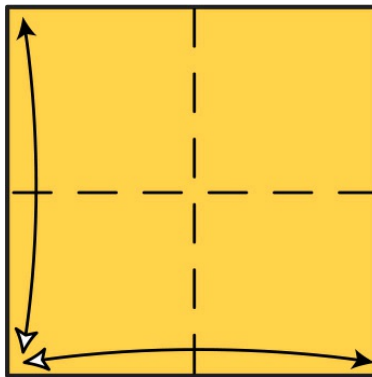
12 Hold at the top, and then blow into the model to inflate it into a triangular form.



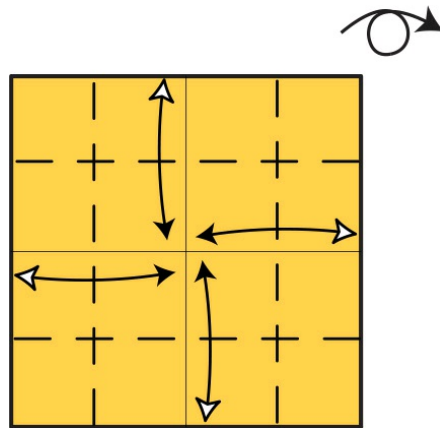


3D Fish by Stephen Palmer

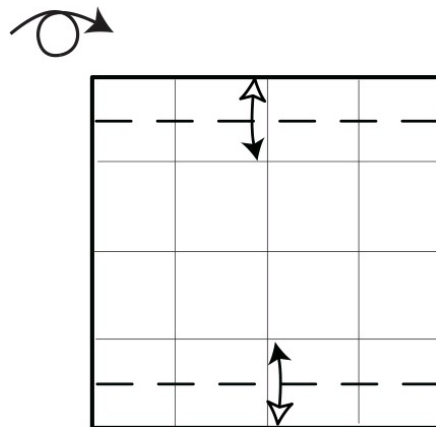
This elegant design is simple to make, but the end result looks quite complex.



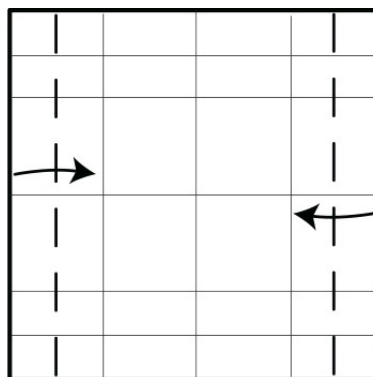
1 Fold in half, crease and unfold in both directions.



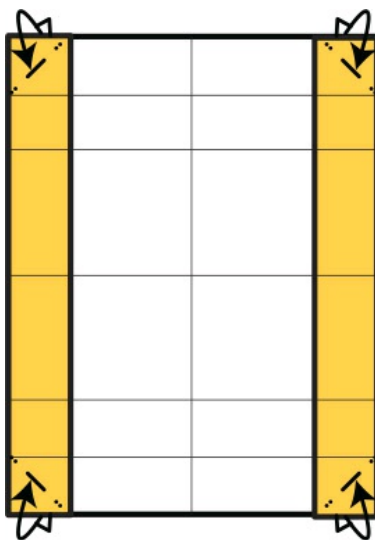
2 Fold all four edges to the center, crease and unfold. Turn the paper over.



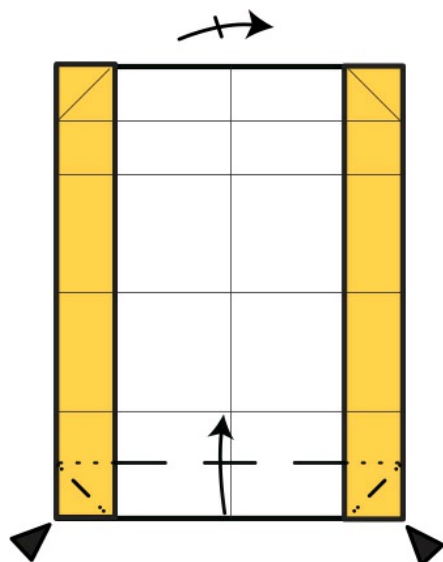
3 Fold upper and lower edges to the $\frac{1}{4}$ creases, and then unfold.



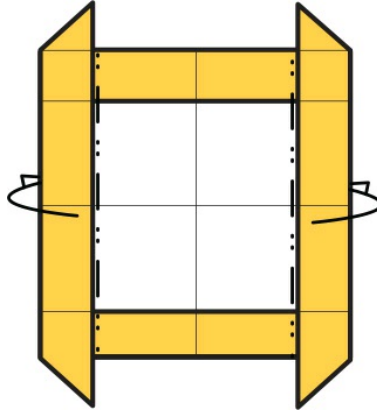
4 Fold left and right edges in to meet the $\frac{1}{4}$ creases.



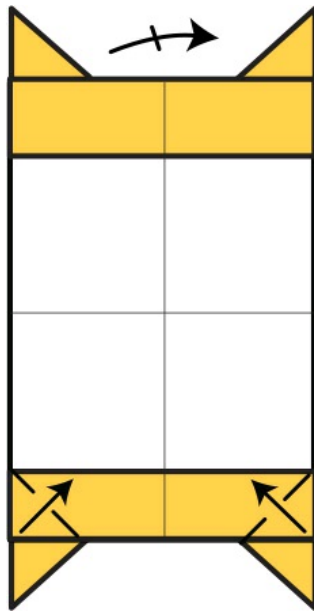
5 Mountain fold all four corners behind, crease, and then unfold.



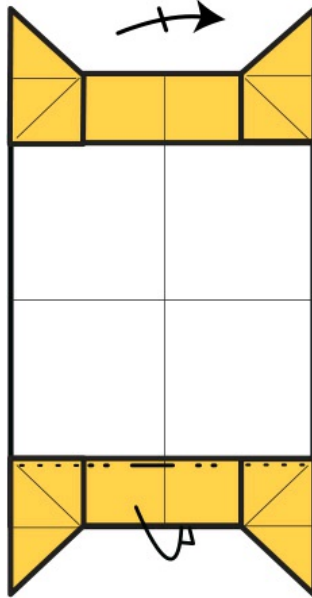
6 Fold the white edge upward. The corners will form into points.
Repeat at the top.



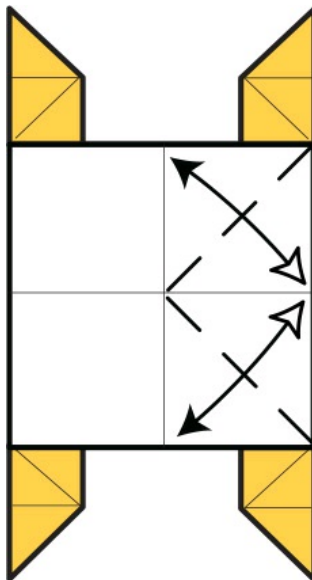
7 Fold left and right colored flaps underneath.



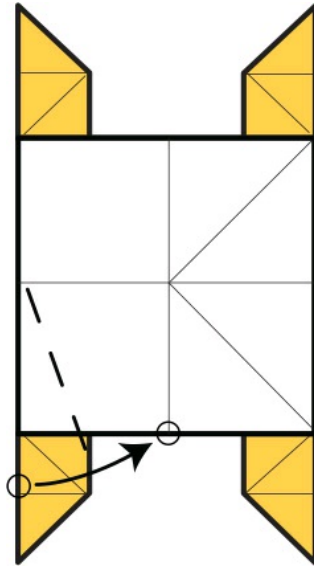
8 Fold over two corners. Repeat at the top.



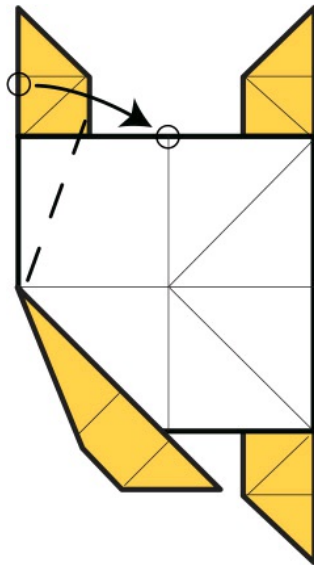
9 Fold colored flaps underneath, adjusting layers. Repeat at the top.



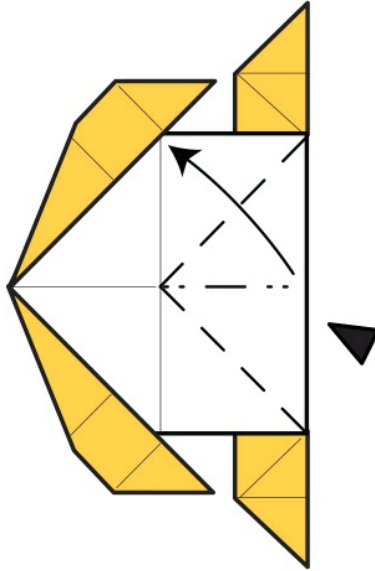
10 Crease and unfold, twice.



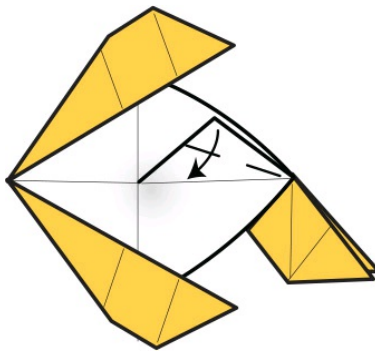
11 Fold from the center of the vertical left edge so the circled points meet.



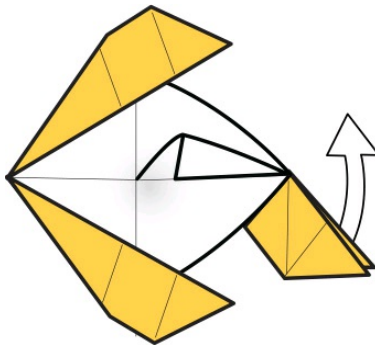
12 Repeat the last step on the upper half.



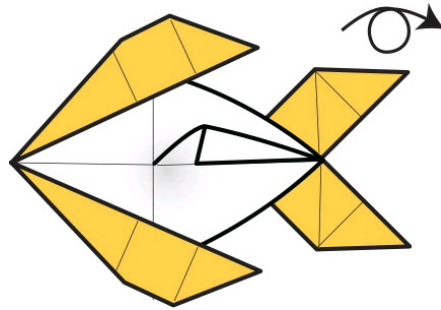
13 Form the model into 3D using these creases.



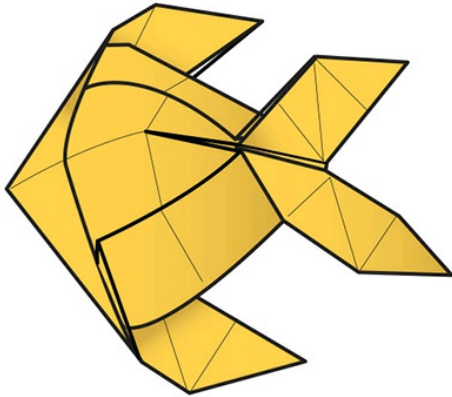
14 Fold the triangular flap in half to “lock” the tail together.

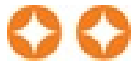


15 Unfold the lower tail fin.



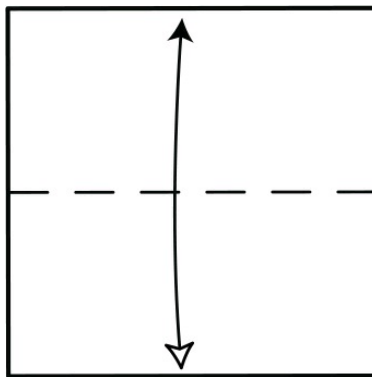
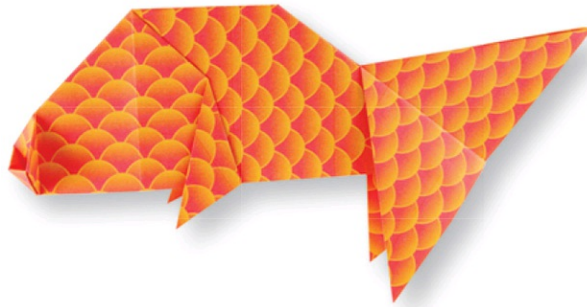
16 Complete. Turn the model over.



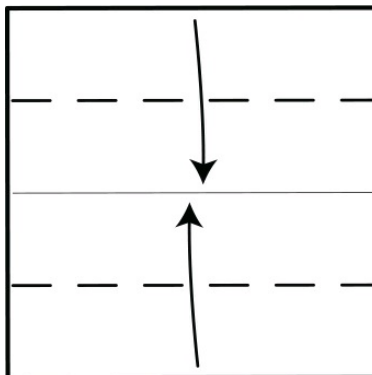


Goldfish by Rob Snyder

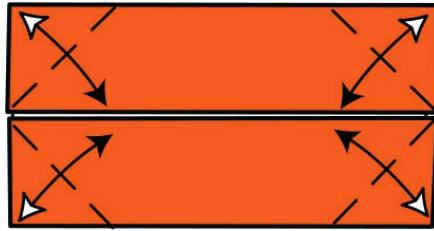
This fish is developed from a traditional “windmill” base. By adjusting steps 7 and 8, you can create a number of different tail shapes.



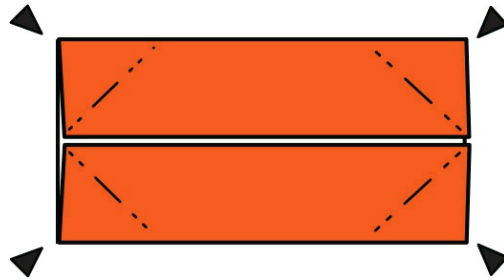
1 White side up, fold in half, crease and unfold.



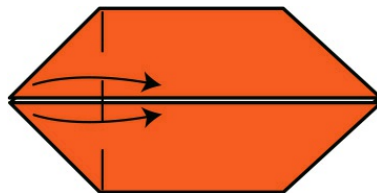
2 Fold upper and lower edges to the center.



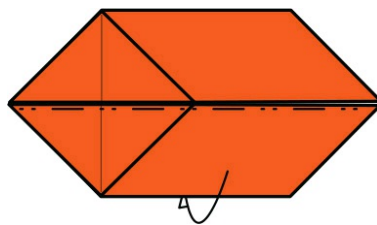
3 Fold all four corners in, crease and unfold.



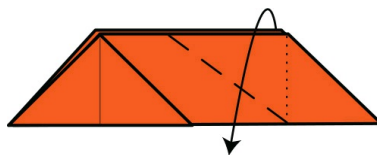
4 Reverse all four corners inside.



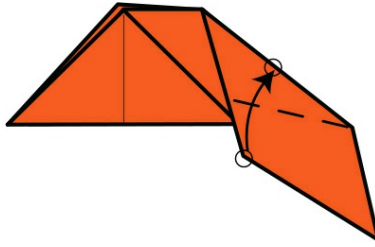
5 Fold two flaps to the right.



6 Fold the lower half underneath.



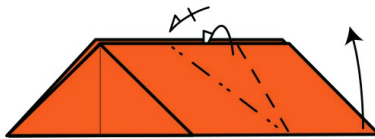
7 Fold all layers down.



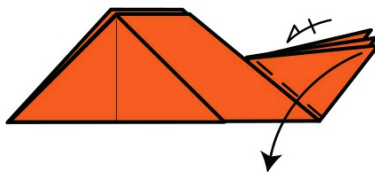
8 Fold so the circled points meet.



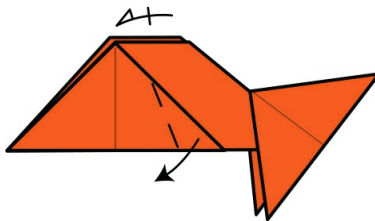
9 Unfold the last two steps.



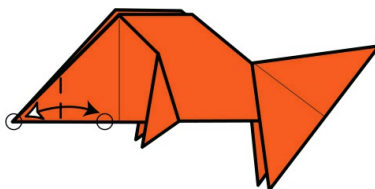
10 Make these creases on both sides, folding paper inside.



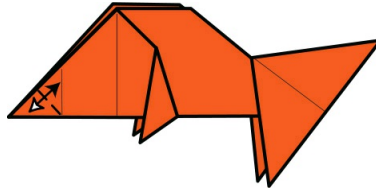
11 Fold a single flap down on both sides.



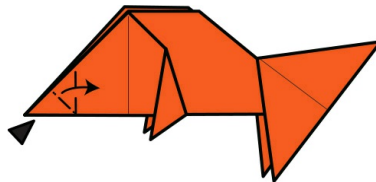
12 Fold a small fin over on both sides.



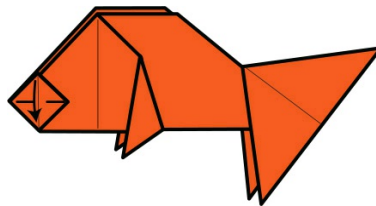
13 Crease and unfold.



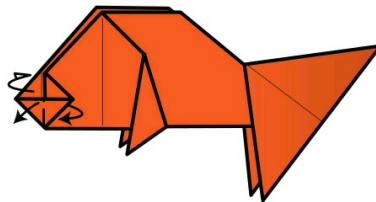
14 Crease and unfold again.



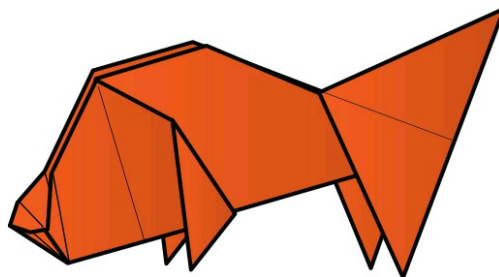
15 Squash the corner to the right.



16 Fold the square in half downward.



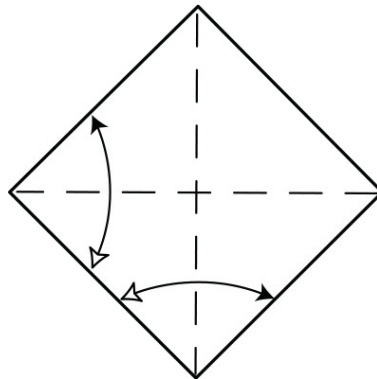
17 Open both sides of the square at right angles. Open the “mouth” a little.



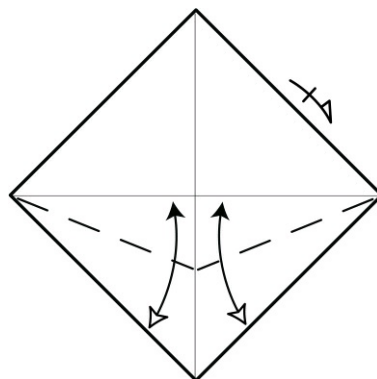


Telescope Goldfish by Rob Snyder

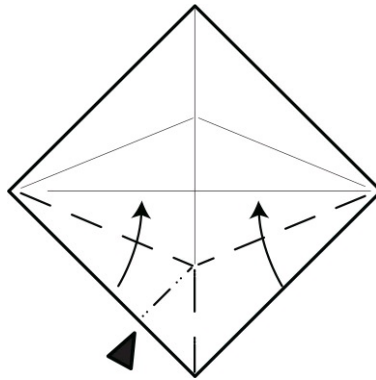
This is a type of goldfish that has very prominent eye sockets. You can make many variations of the tail fins from step 15 onward.



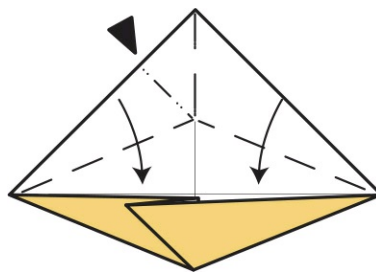
1 White side up, crease and unfold both diagonals.



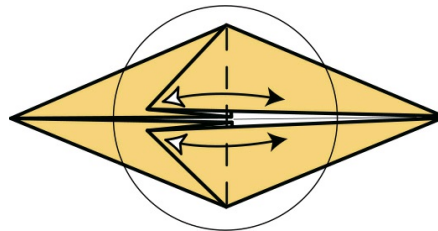
- 2** Fold each lower edge to the center, crease where shown and unfold. Repeat on the upper half.



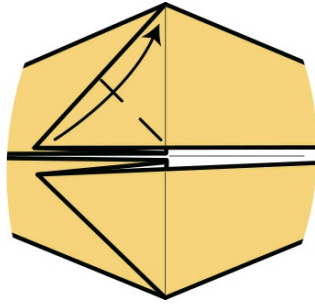
- 3** Fold in using the two lower valley creases. The mountain crease is formed as you flatten the paper.



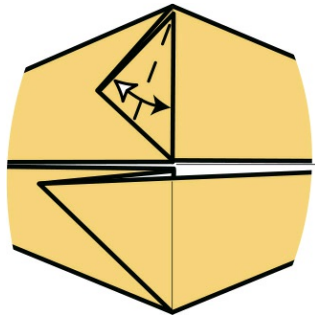
- 4** Repeat the previous step on the upper half.



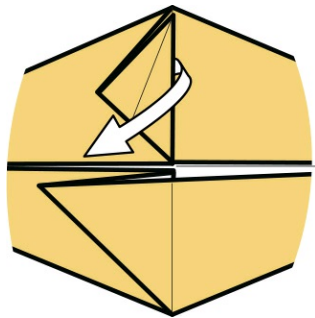
- 5** Fold the inner flaps to the right and then back again. Now focus on the circled area.



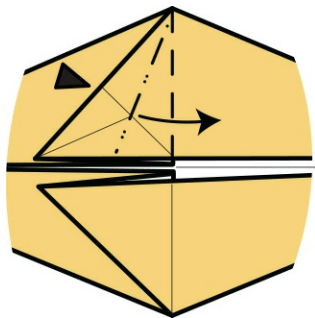
6 Fold the inner corner to the top corner.



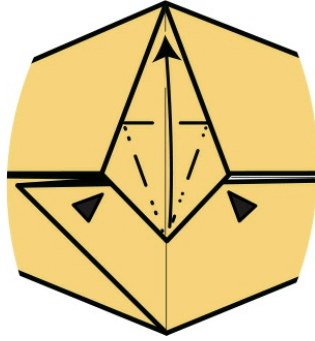
7 Fold the triangular flap in half, crease and unfold.



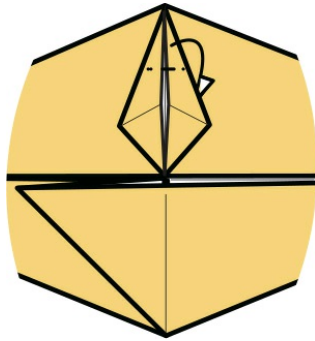
8 Unfold the last two steps.



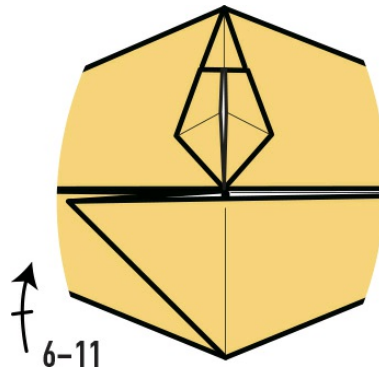
9 Squash the flap open.



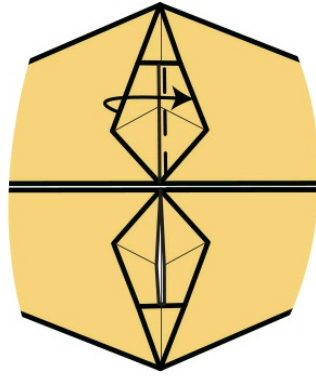
10 Fold the corner to the top, flattening the sides inward.



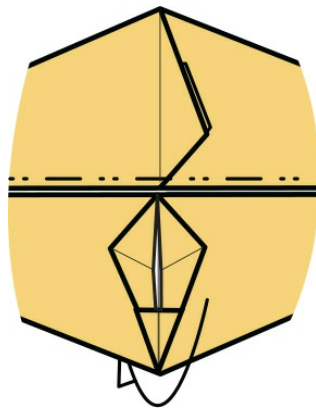
11 Fold part of the flap behind.



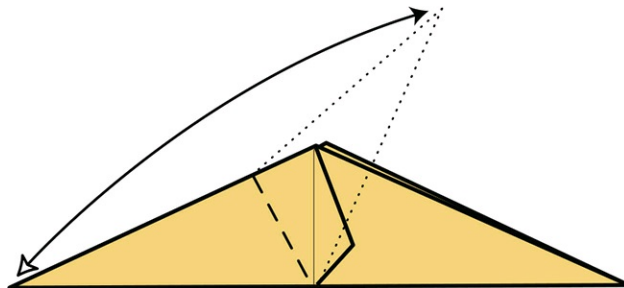
12 Repeat steps 6–11 on the lower half.



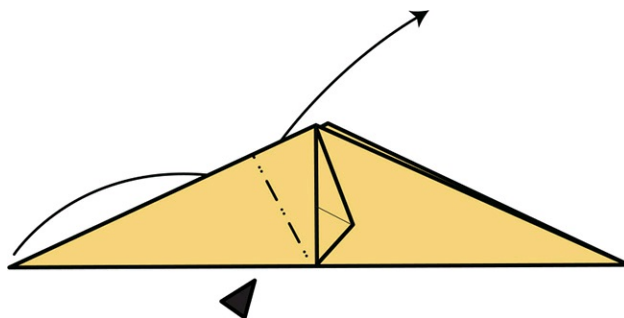
13 Fold the upper flap to the right.



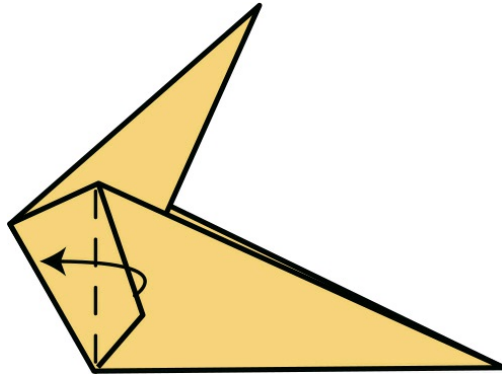
14 Fold the lower half underneath.



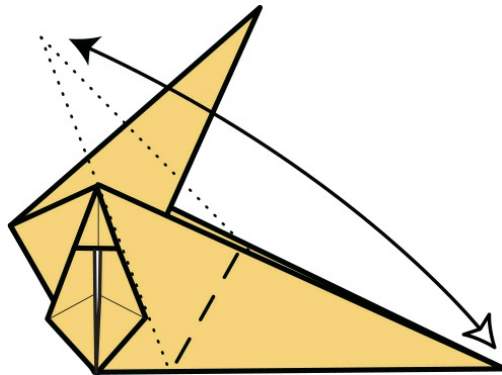
15 Crease to match the dotted outline, and then unfold.



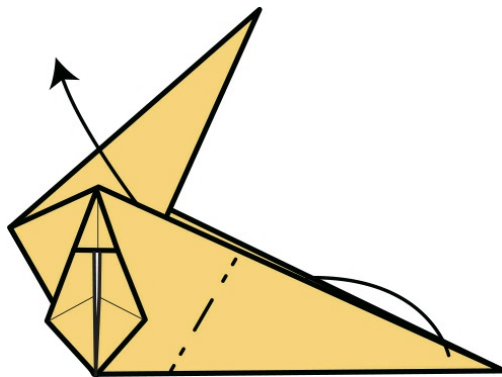
16 Reverse the left flap inside.



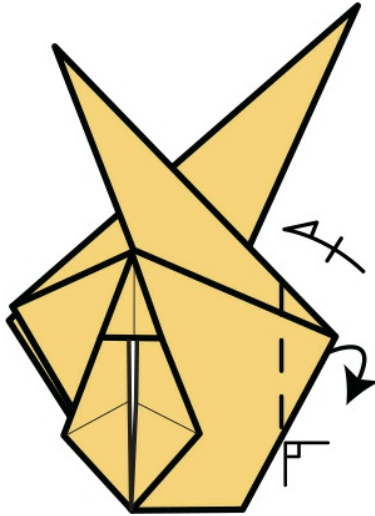
17 Fold half of the flap to the left.



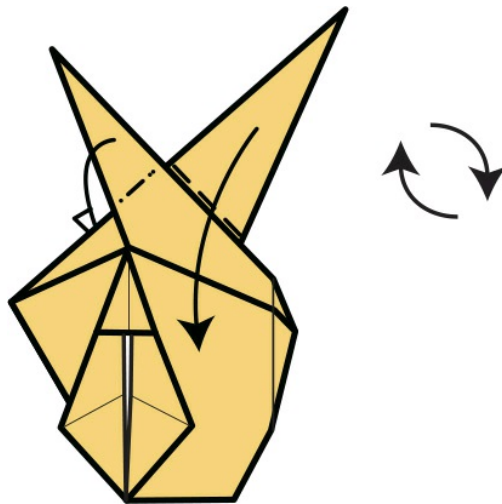
18 Fold to the dotted outline, and then unfold.



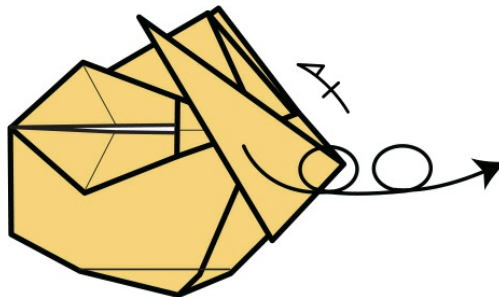
19 Reverse the right flap inside.



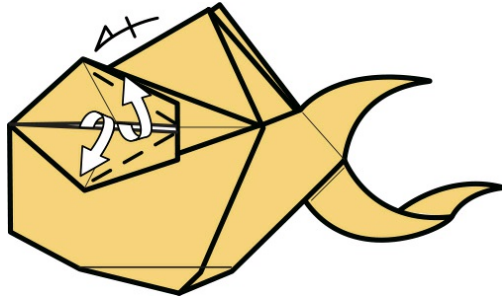
20 Fold the small flaps out at 90 degrees, front and rear.



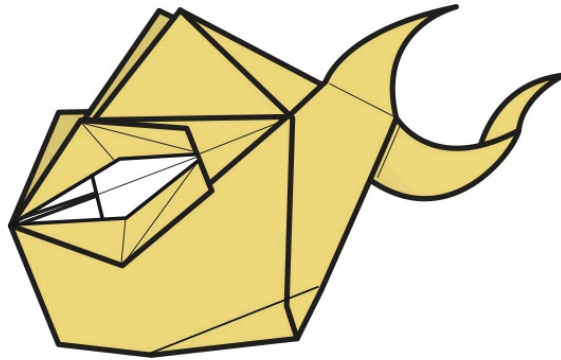
21 Fold one tail fin to each side. Rotate the model.



22 Curl the tail fin backward. Repeat underneath.



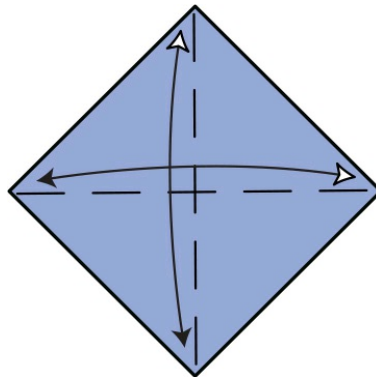
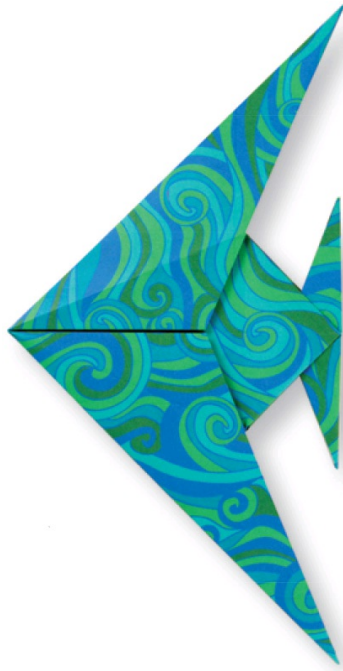
23 Open and shape the eyes, front and back.



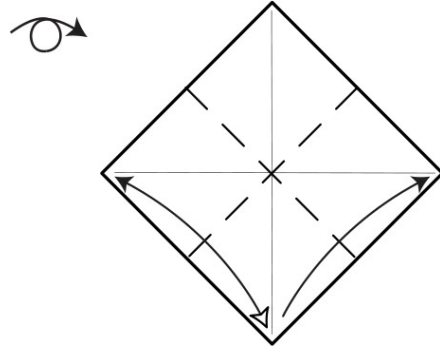


Angel Fish by John Montroll

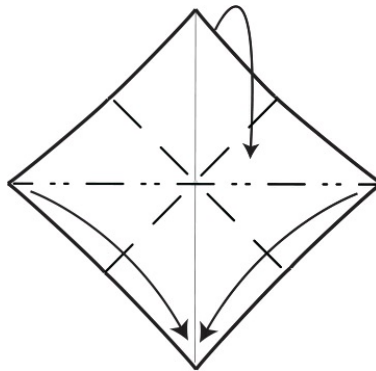
This is a classic design from the '70s by one of America's greatest creators.



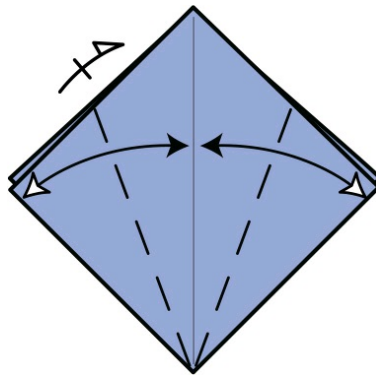
- 1 Colored side up, crease and unfold both diagonals. Turn the paper over.



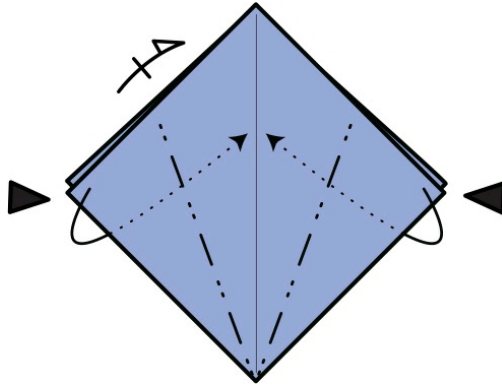
2 Crease in half and unfold from side to side, in both directions.



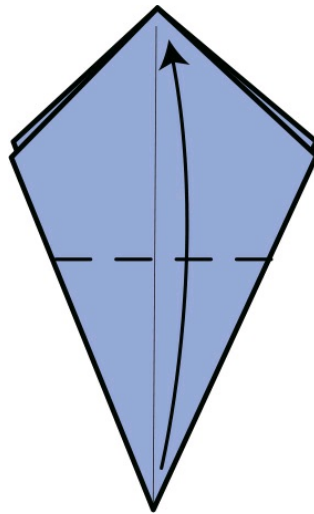
3 Collapse the paper downward on these creases.



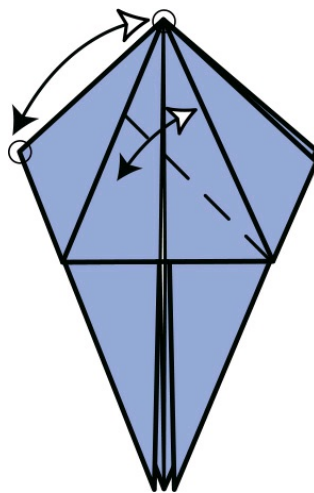
4 Fold the lower edges to the vertical center, crease and unfold.
Repeat underneath.



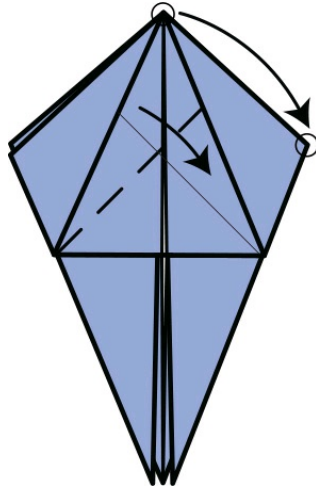
5 Reverse the corners inside, front and back.



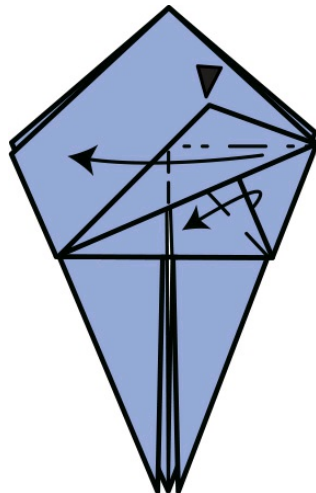
6 Fold a single corner to the top.



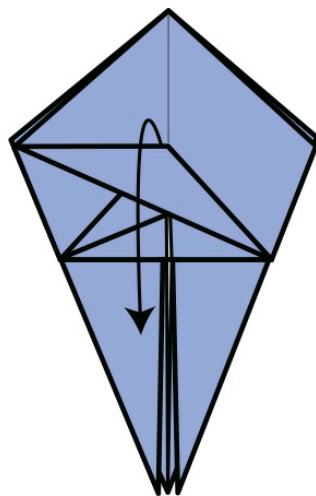
7 Fold the central flap to the left, so the circled corners meet, and then unfold.



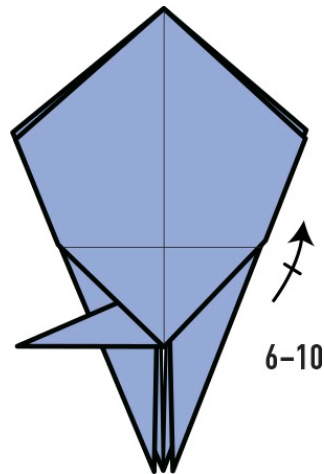
8 Fold the flap to the right, as in the previous step.



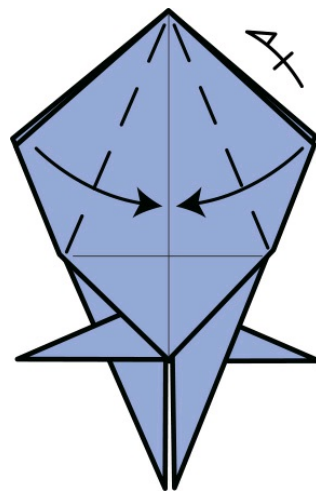
9 Fold the flap to the right, refolding the crease made in step 7.



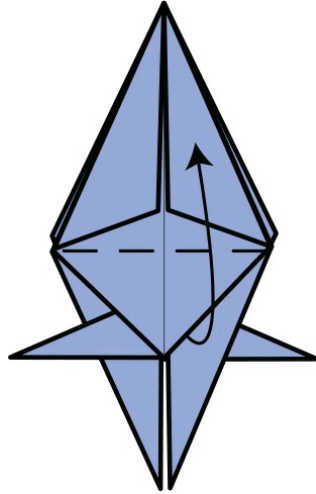
10 Swing the flap downward.



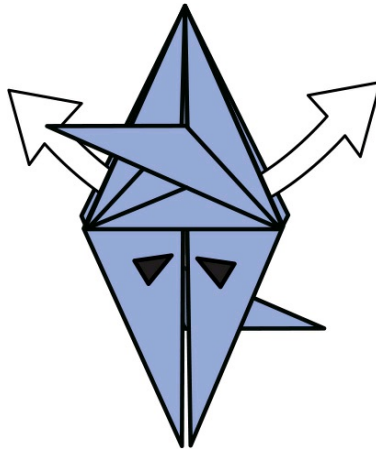
11 Repeat steps 6–10 on the underside.



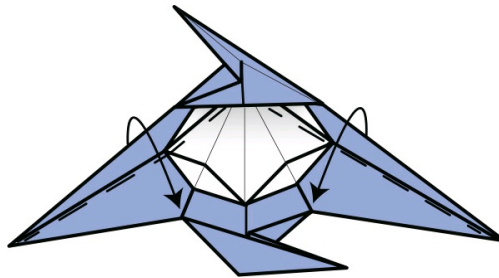
12 Fold the upper edges to the vertical center. Repeat underneath.



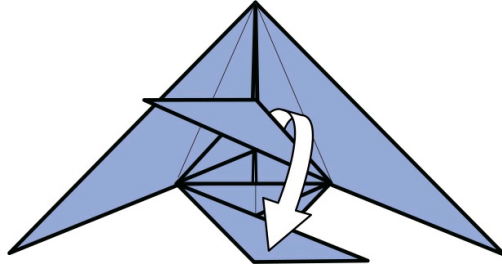
13 Fold a flap upward.



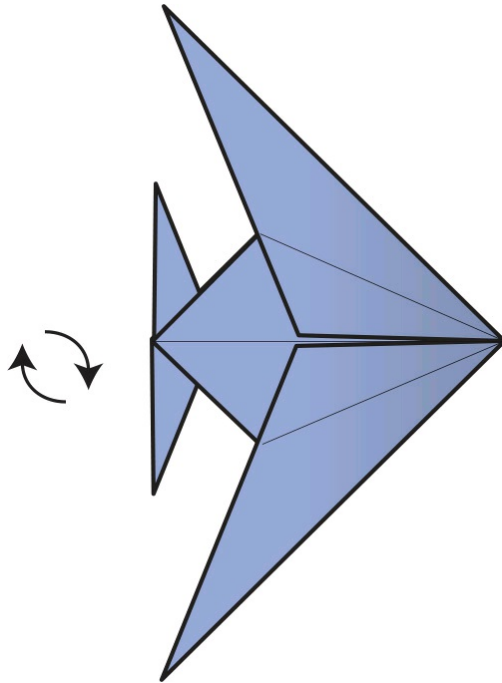
14 Press the vertical edges outward, opening up the paper.



15 Flatten four small white corners on the inside, and then press the model flat again.



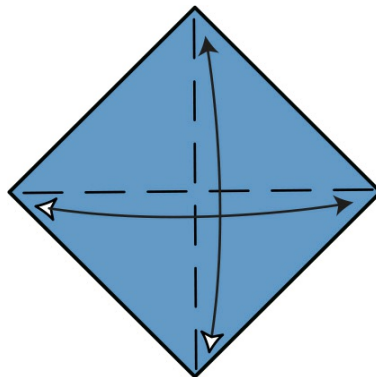
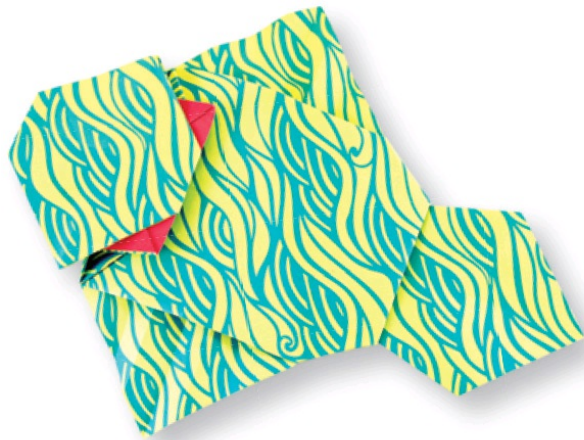
16 Fold the flap down again and rotate the model to the right.



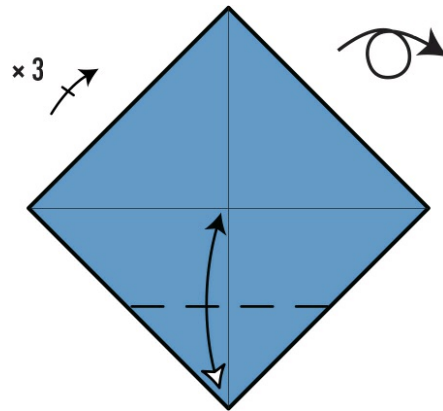


Flatfish by Nick Robinson

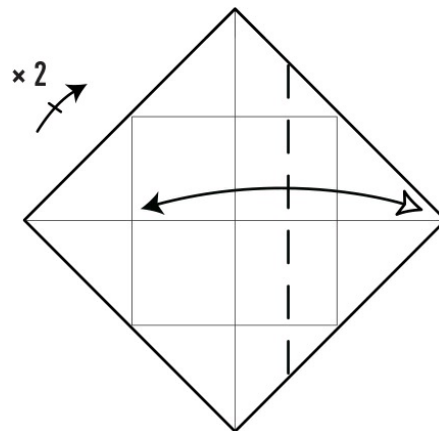
This type of fish is quite unusual, with eyes that begin on opposite sides, and then move around to one side!



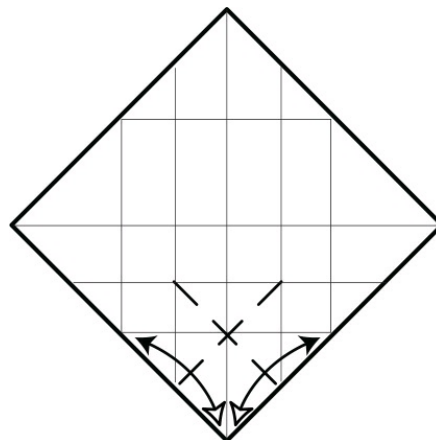
1 Colored side up, crease and unfold both diagonals.



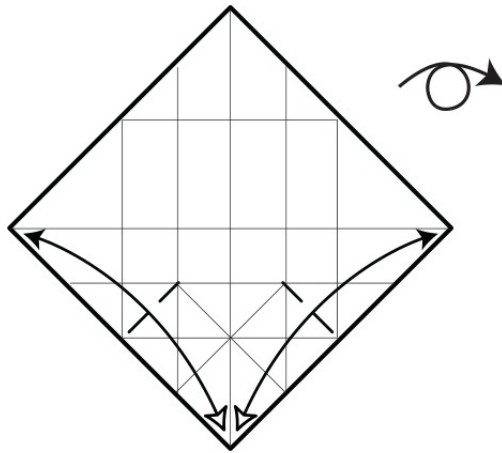
2 Fold all corners to the center, then unfold. Turn the paper over.



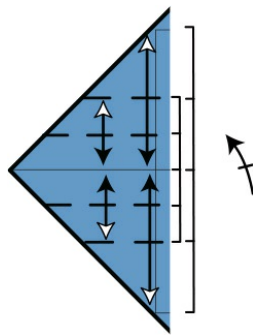
3 Add 3/8 creases on three sides.



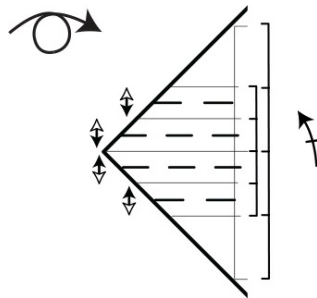
4 Make two short precreases.



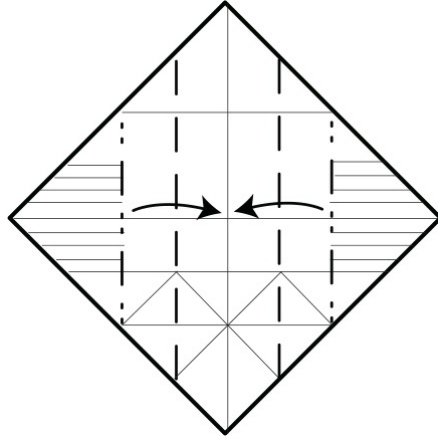
5 Make two more precreases. Turn the paper over.



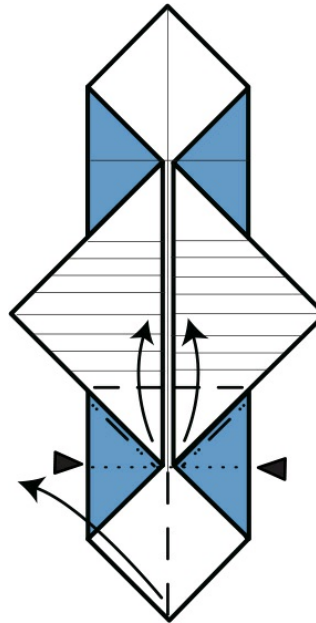
6 Make four precreases on the left triangular flap. Repeat on the right and turn the paper over.



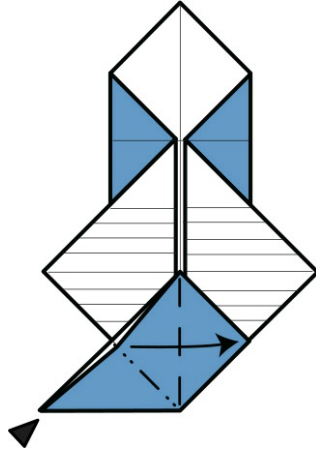
7 Make four precreases in between existing creases. Repeat on the right.



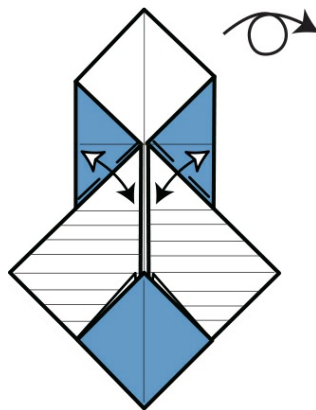
8 Pleat the sides inward.



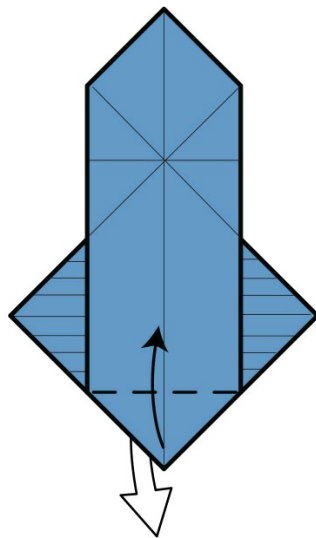
9 Fold the white corners to the center, making a mountain fold on the dotted line. The flap folds to the left.



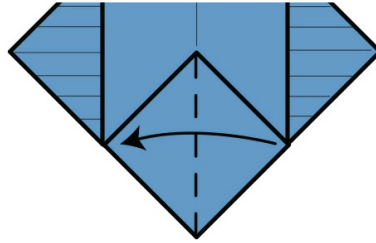
10 Open and squash the flap.



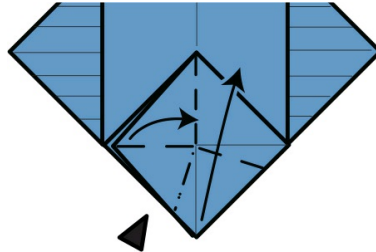
11 Make two precreases. Turn the paper over.



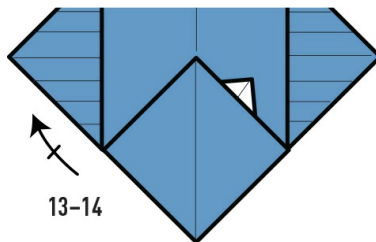
12 At the bottom, fold the flap inward, allowing flaps behind to flip out.



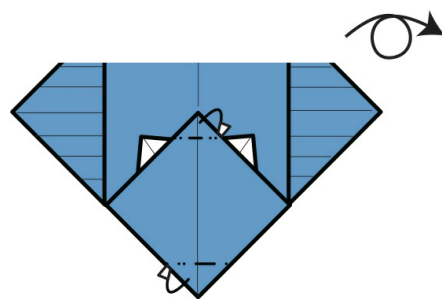
13 Fold a flap to the left.



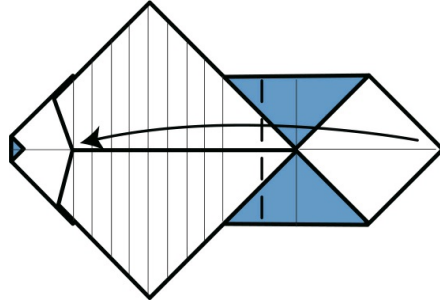
14 Fold the corner up at a slight angle. The mountain is formed as you flatten the paper.



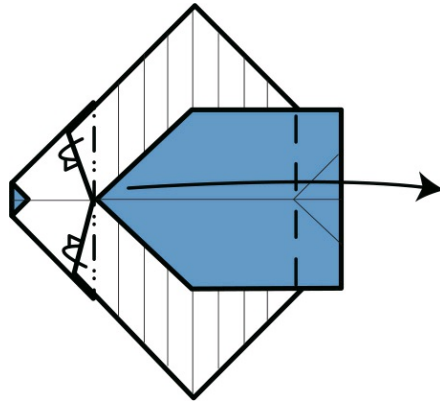
15 Repeat steps 13–14 on the left side.



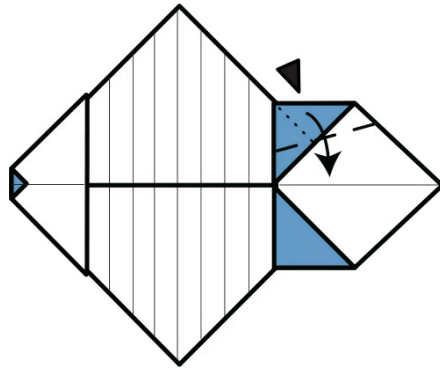
16 Fold two corners underneath. Turn the paper over.



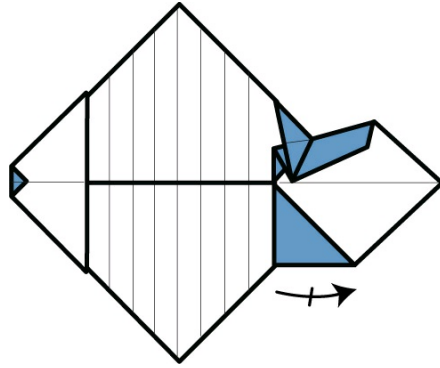
17 Fold the right flap to the left.



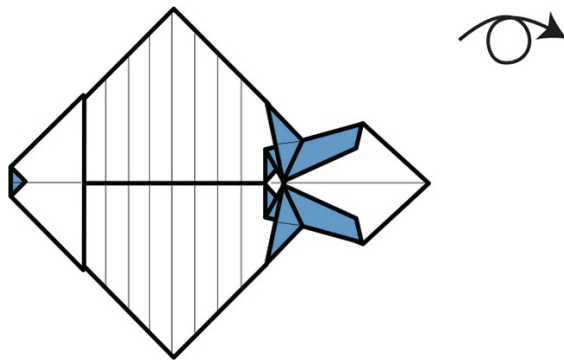
18 Fold the same flap to the right. Tuck two small flaps underneath on the left.



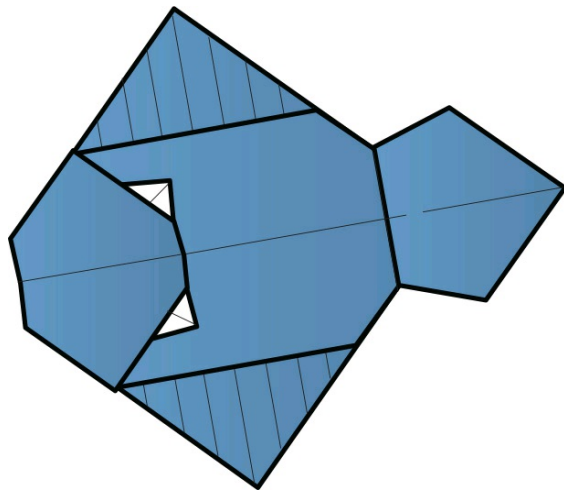
19 Fold the corner over at an angle, squashing a hidden corner and forming a valley along the dotted line.



20 Repeat the previous step on the lower half.



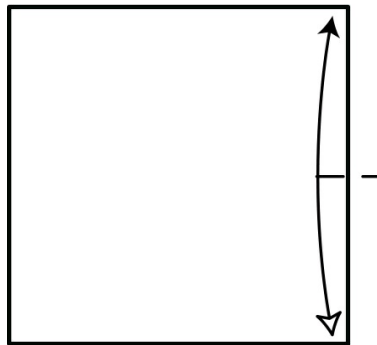
Complete. Turn the paper over.



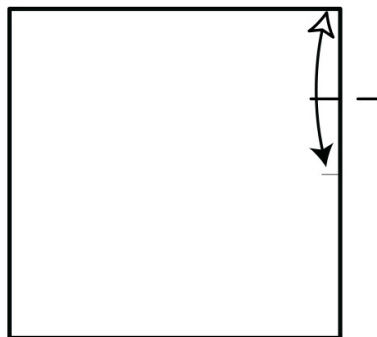


Clownfish by John Montroll

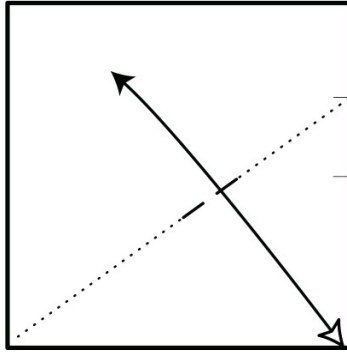
This design is based around dividing the square into equal sevenths. This is done during steps 1–5.



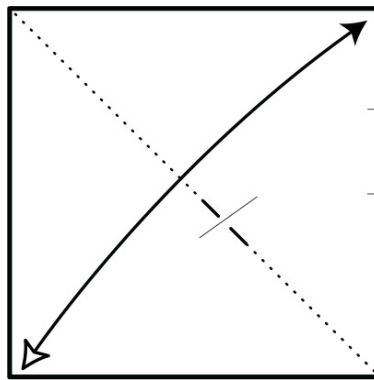
1 Fold in half, make a small pinch, and unfold.



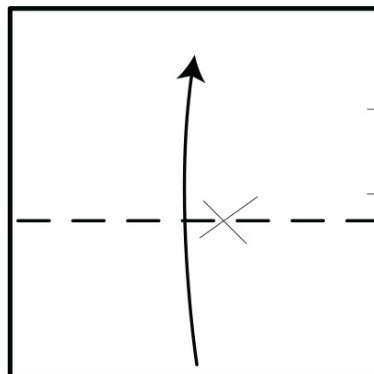
2 Fold the corner to the pinch, make a new pinch.



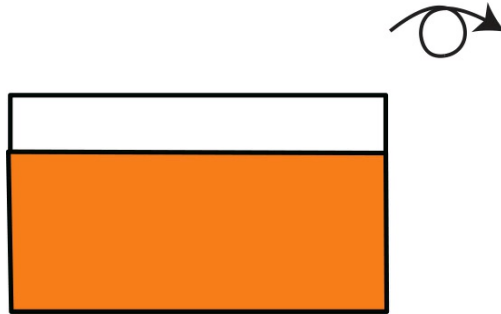
3 Fold between the corner and the recent pinch, making a short crease where shown.



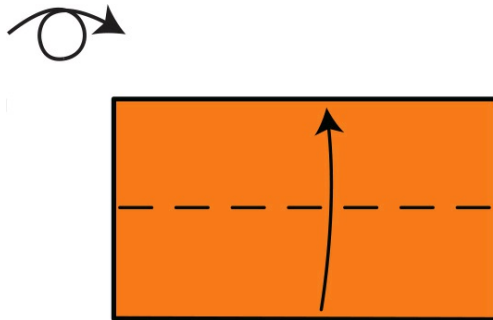
4 Fold a diagonal, creasing only where it crosses the previous crease.



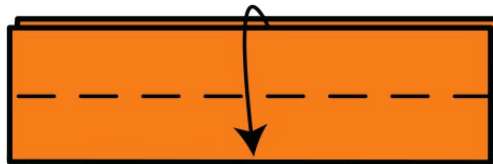
5 Fold upward so the crease passes through the intersection of pinches.



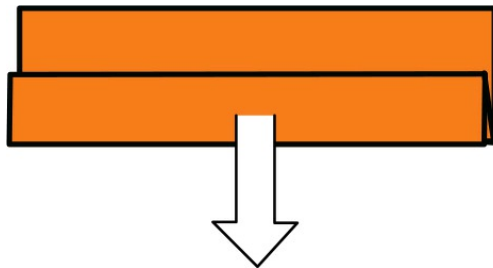
6 The result. Turn the paper over.



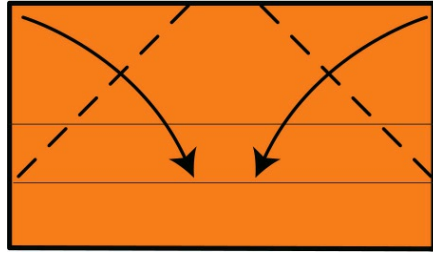
7 Fold the lower edge to the top.



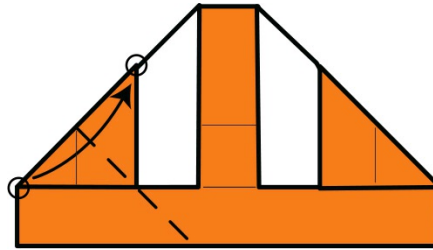
8 Fold the upper flap in half downward.



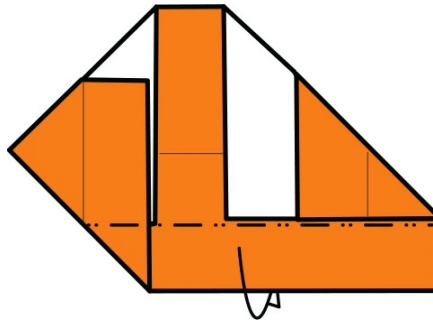
9 Pull the flap downward.



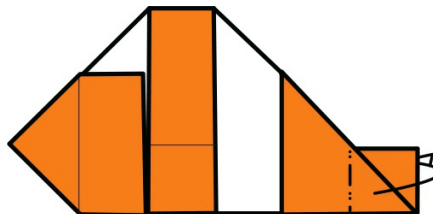
10 Fold the corners down (through both layers).



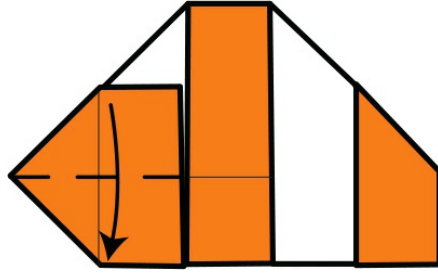
11 Fold so the circled points meet.



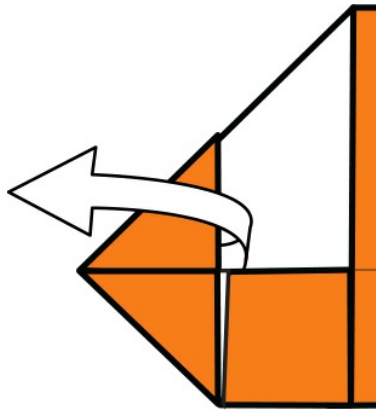
12 Fold the lower flap behind.



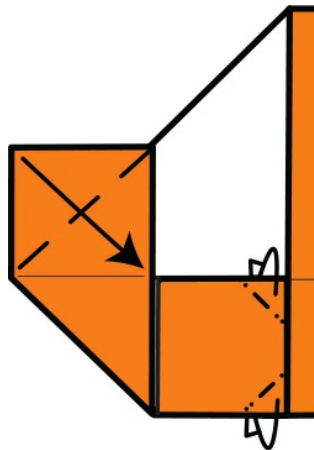
13 Fold the right (square) section behind.



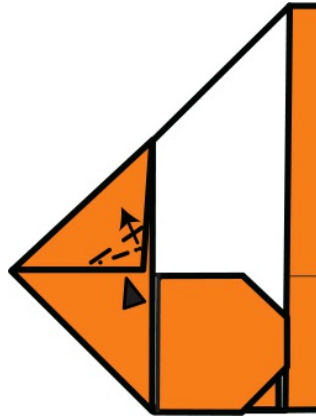
14 Fold a flap on the left in half downward.



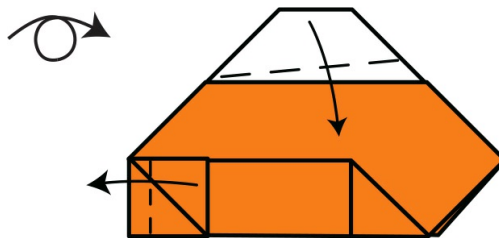
15 Ease out some trapped paper.



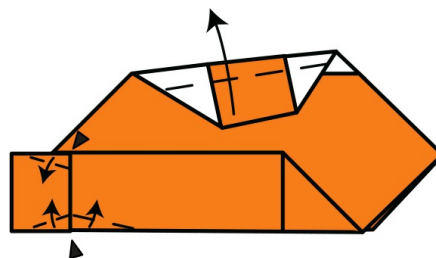
16 Fold the corner inward. Fold the corners on the right behind.



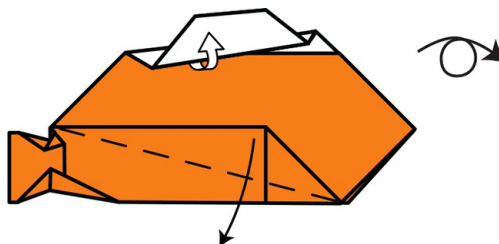
17 Fold over the corner and squash it open. Turn the paper over.



18 Fold the top fin down at an angle. Fold part of the square flap to the left.

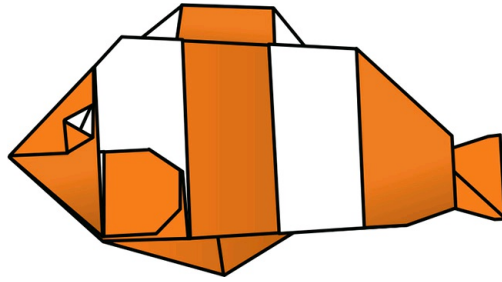


19 Fold the fin back upward. At the lower-left corner, fold corners in and squash to flatten. The lower layers are quite thick—just do your best!



20 Fold the lower flap down at an angle. Ease out a layer to trap the

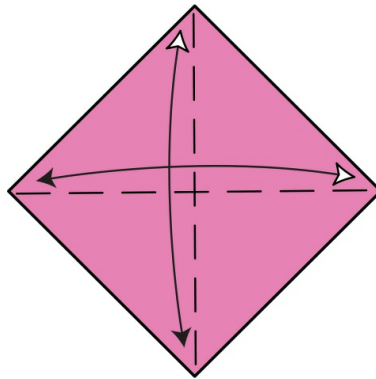
upper flap. Turn the model over.



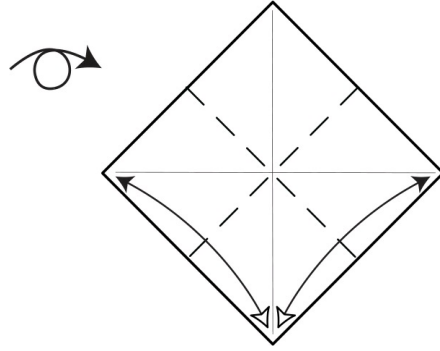


Carp Traditional

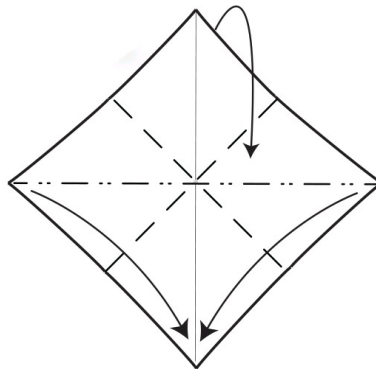
This is an unusual model; traditional—but little known. At the end, you can put your fingers inside the mouth and round the body out to make it 3D.



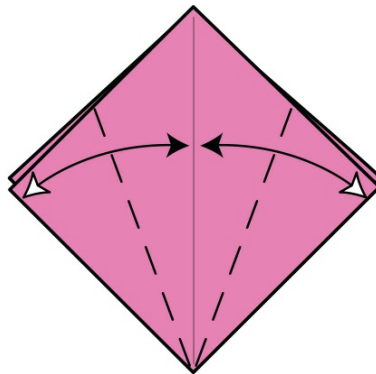
- 1 Colored side up, crease and unfold both diagonals. Turn the paper over.



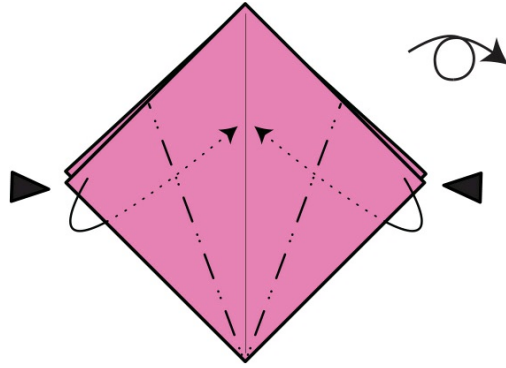
2 Crease in half and unfold from side to side, in both directions.



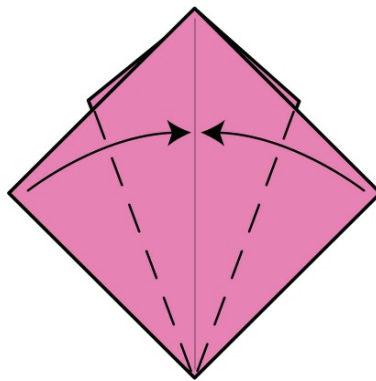
3 Collapse the paper downward on these creases.



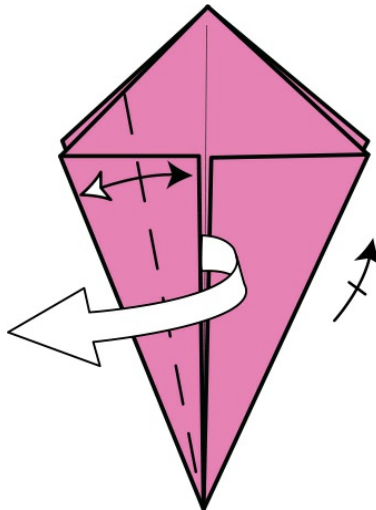
4 Fold the lower edges to the vertical center, crease and unfold.



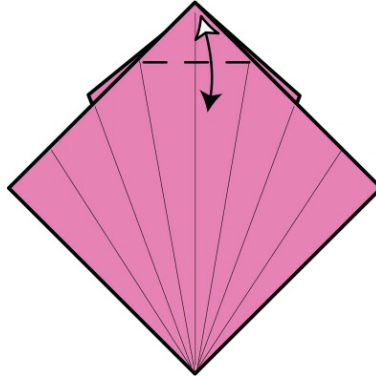
5 Reverse the corners inside on the top flaps. Turn the paper over.



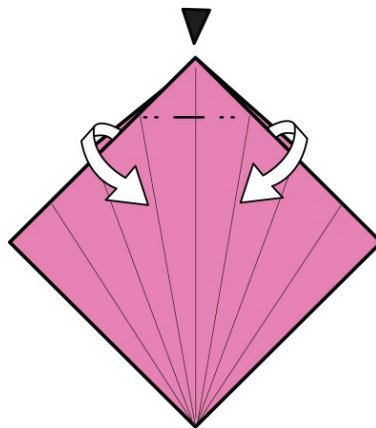
6 Fold the long edges to the center.



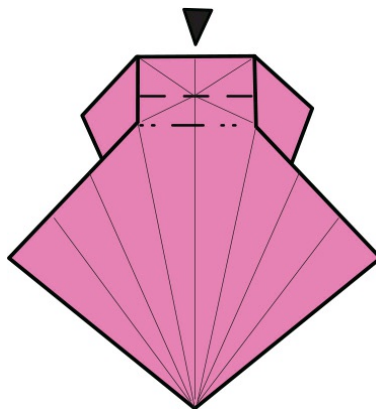
7 Fold the long edges to the center on both sides, crease and unfold. Then unfold again.



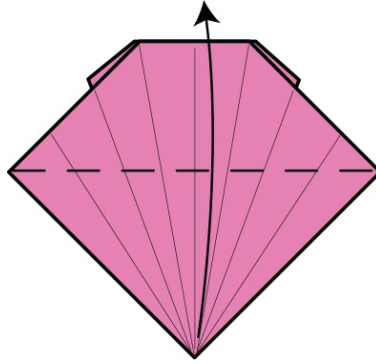
8 Crease and unfold a triangular flap at the ends of the inner creases.



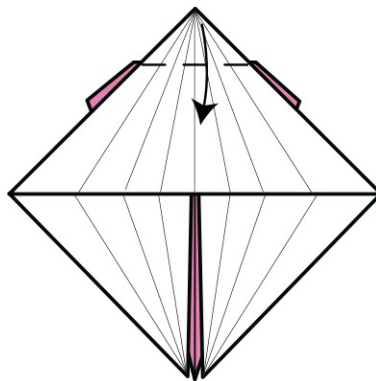
9 Open and flatten the top corner. The paper becomes 3D.



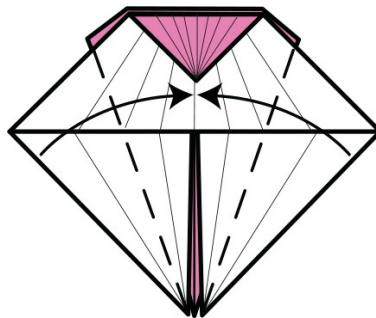
10 Make a valley in the center, flattening the paper.



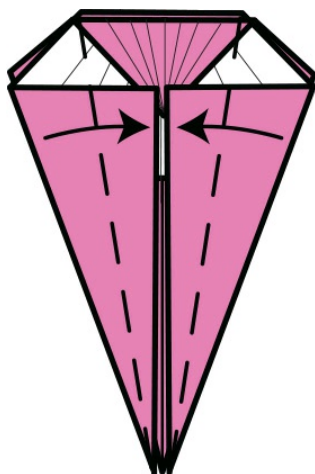
11 Fold up a single layer.



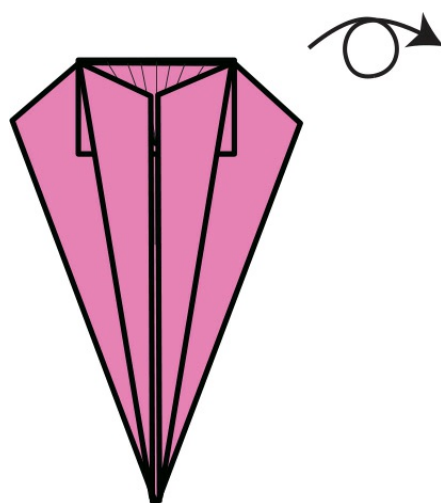
12 Fold a flap down along a hidden edge.



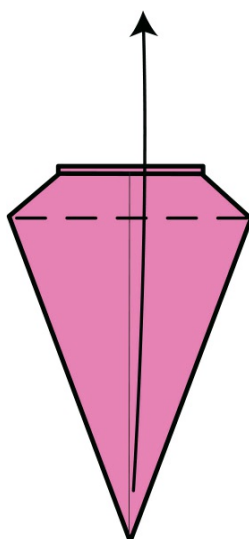
13 Fold the left and right edges to the center.



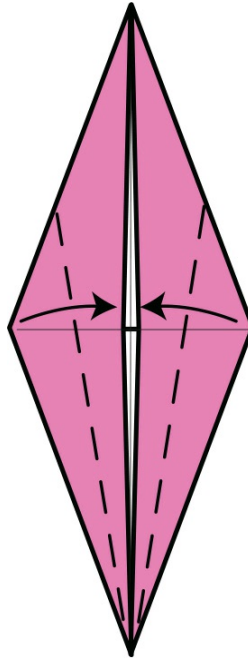
14 Fold the long edges to the center.



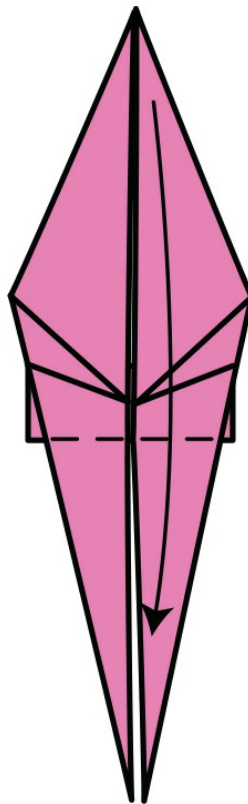
15 The result. Turn the paper over.



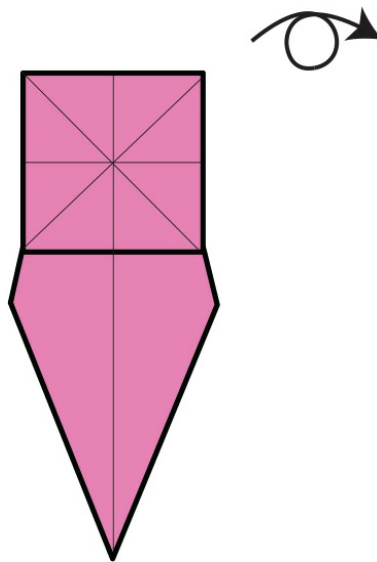
16 Fold a flap upward.



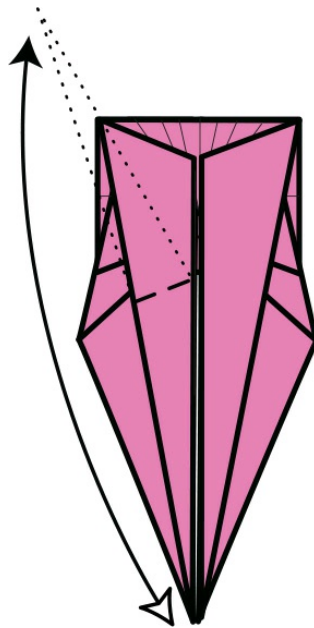
17 Fold the lower edges to the center.



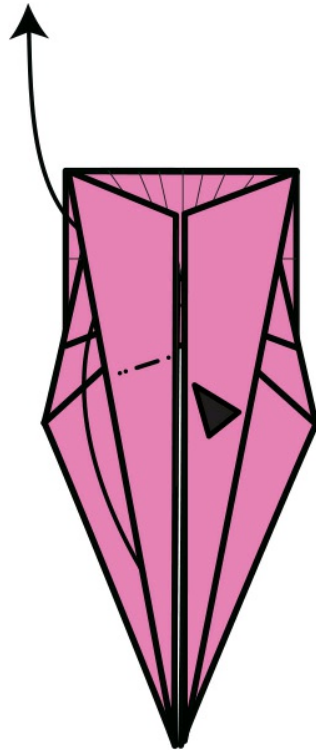
18 Fold a flap down.



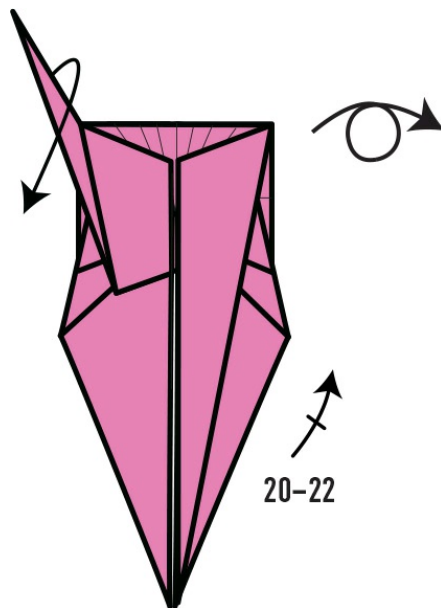
19 The result. Turn the paper over.



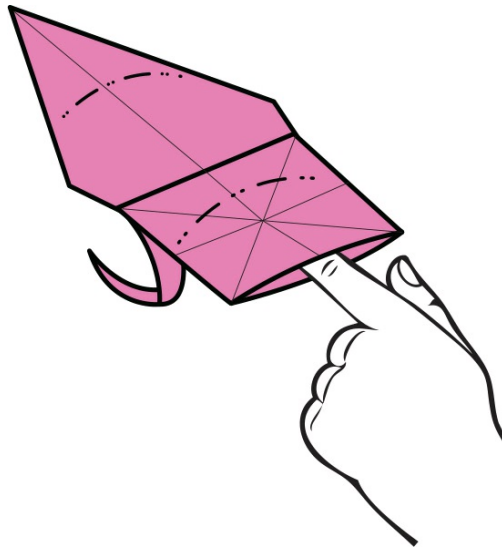
20 Crease and unfold to match the dotted line.



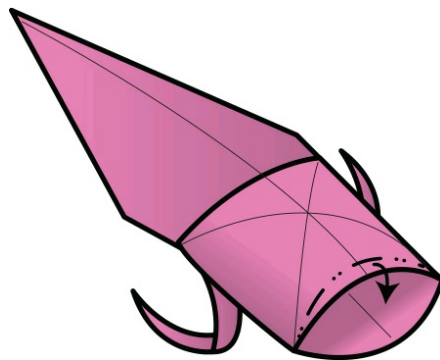
21 Reverse the flap inside.



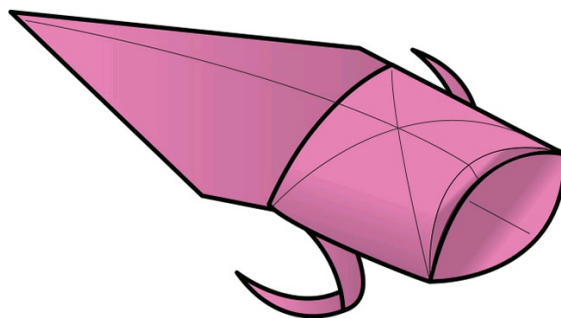
22 Curl the flap around. Repeat steps 20–22 on the right. Turn the model over.



23 Open and round the body.



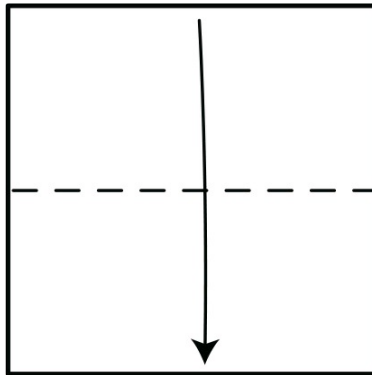
24 Gently curve the top lip inward.



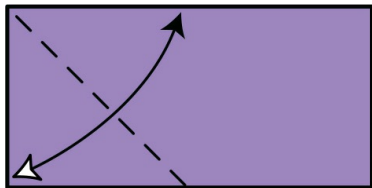


Swimming Fish by Ng Boon Choon

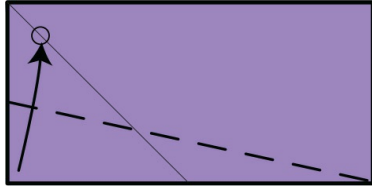
Unlike most origami fish, this model will swim from side to side and looks very lifelike!



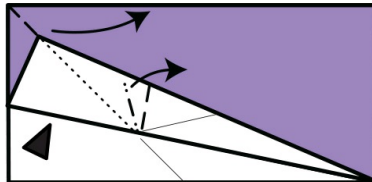
1 White side up, fold in half from top to bottom.



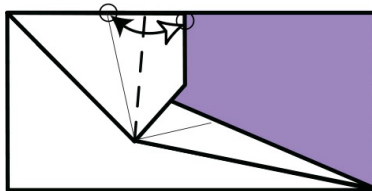
2 Crease and unfold through both layers.



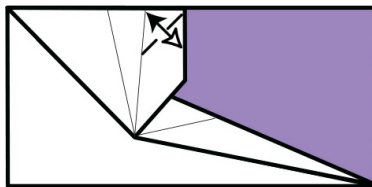
3 Fold so the corner touches the circled point.



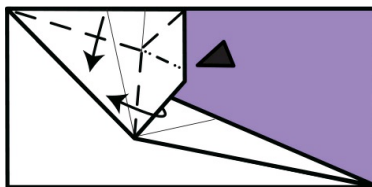
4 Make a crimp in the paper.



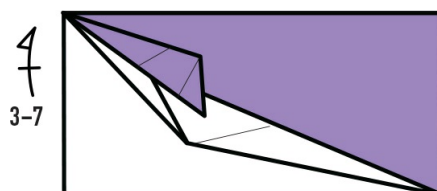
5 Fold so the circled points meet, crease and unfold.



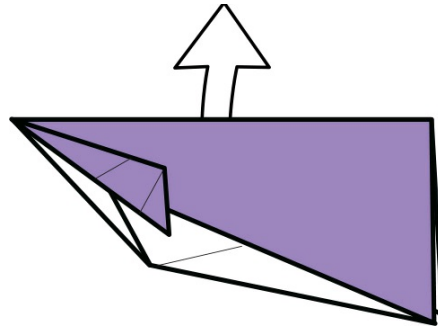
6 Carefully, make a small precrease.



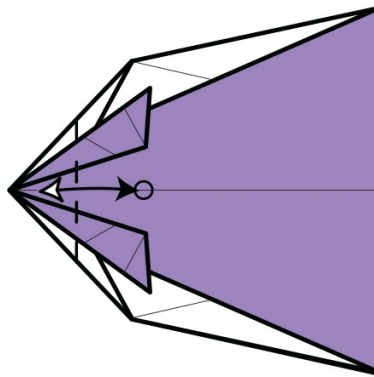
7 Form a point using three valley creases. The mountain forms as you flatten the flap. Refer to the next drawing for the shape.



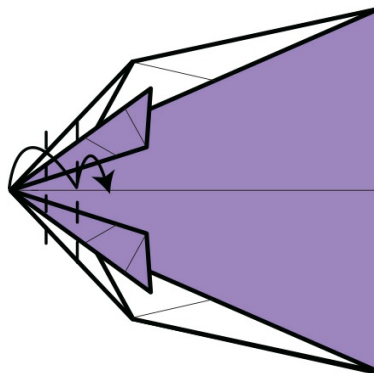
8 Repeat steps 3–7 on the underside.



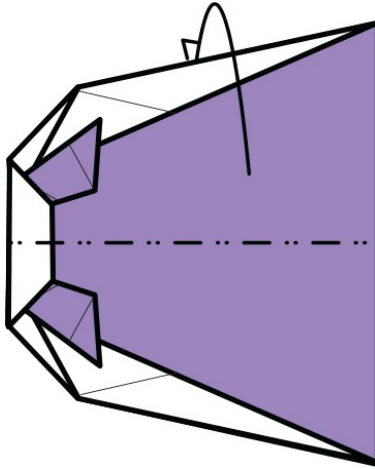
9 Lift up the lower half of the model.



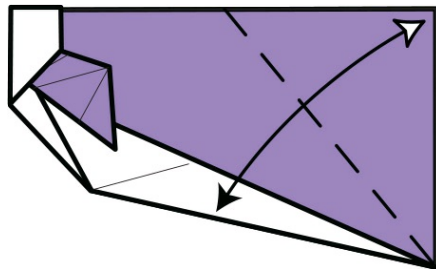
10 Fold the corner to the circled point, and then unfold.



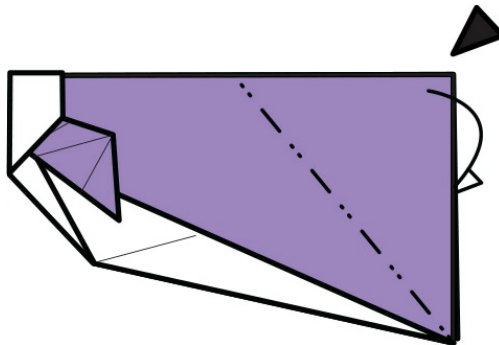
11 Fold the corner in to the previous crease, and then over again.



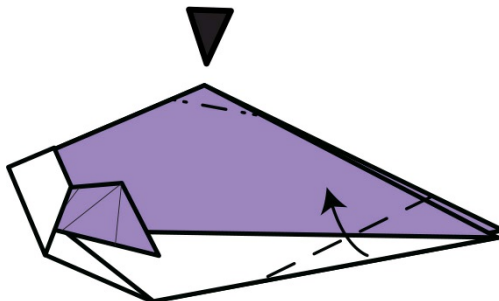
12 Fold the upper half behind.



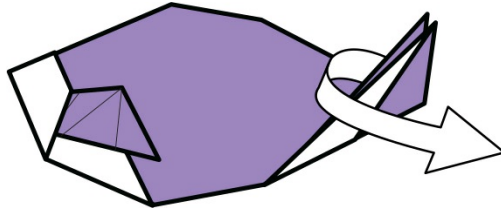
13 Fold the right edge to the lower edge, crease and unfold.



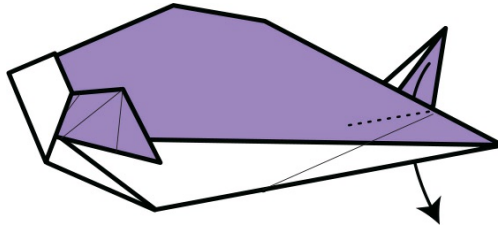
14 Reverse the corner inside.



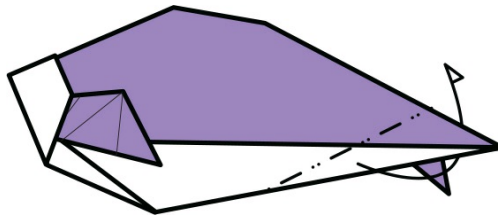
15 Precrease and sink the top corner inside. Fold both tail flaps over.



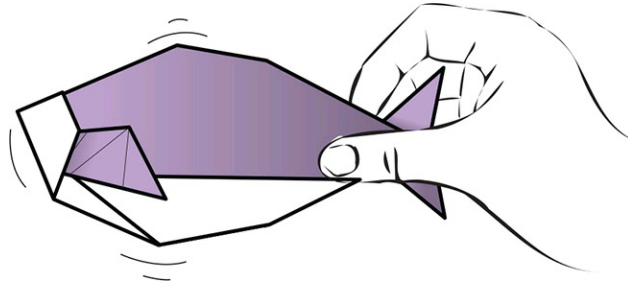
16 Pull out the inner flap so it lies on top dotted line.



17 Fold the lower point down with a valley on the dotted line.



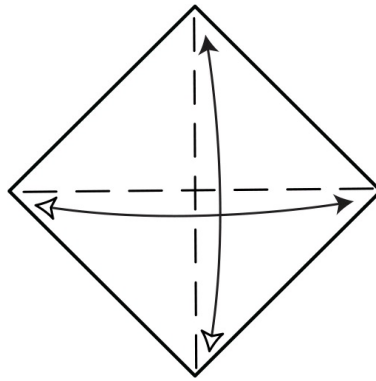
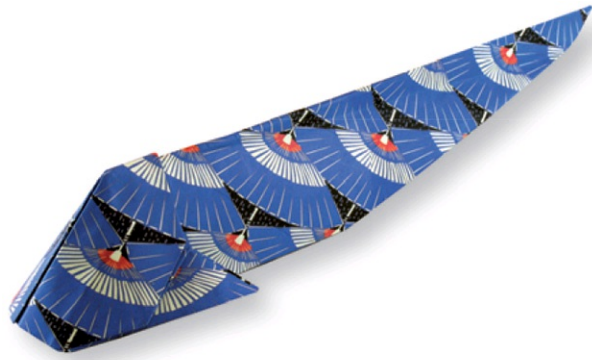
18 Fold the tail flap behind along the existing crease.



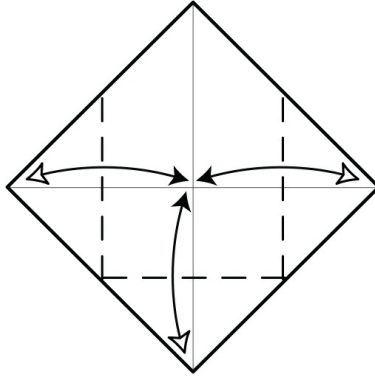


Moray Eel by Nick Robinson

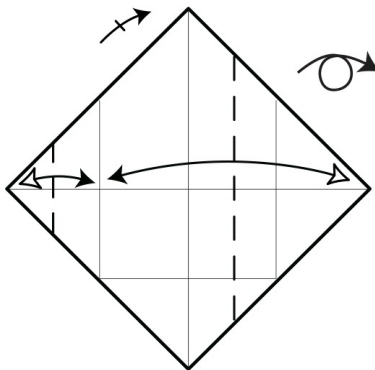
To get the best 3D form, this design is best made from paper that can be “wet folded.” You have many different possibilities for shaping the tail.



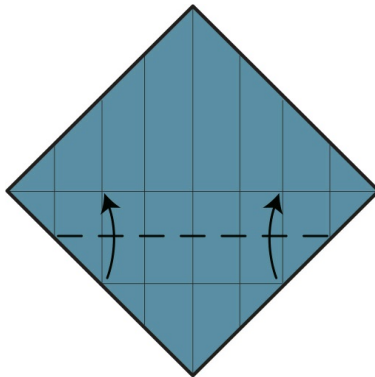
1 White side up, crease and unfold both diagonals.



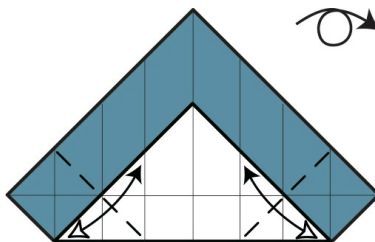
2 Fold three corners to the center, and then unfold.



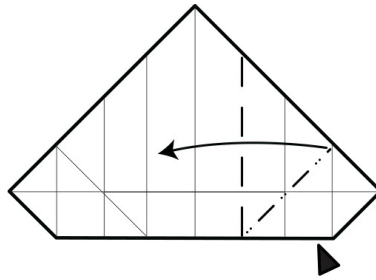
3 Add $\frac{1}{8}$ and $\frac{3}{8}$ creases on both sides. Turn the paper over.



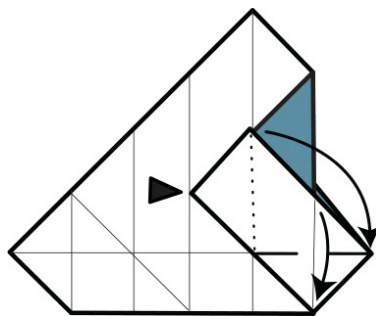
4 Fold the lower flap upward.



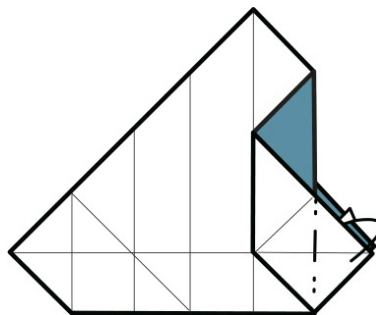
5 Crease and unfold on both sides. Turn the paper over.



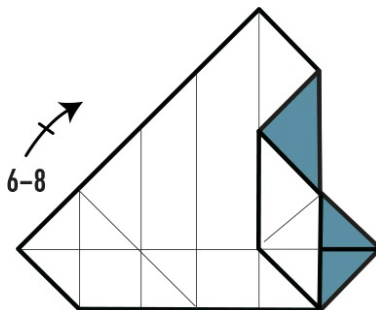
6 Fold in and flatten the paper.



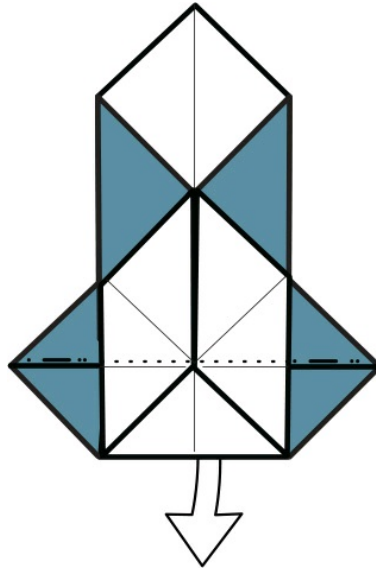
7 Fold down, forming a mountain crease on the dotted line.



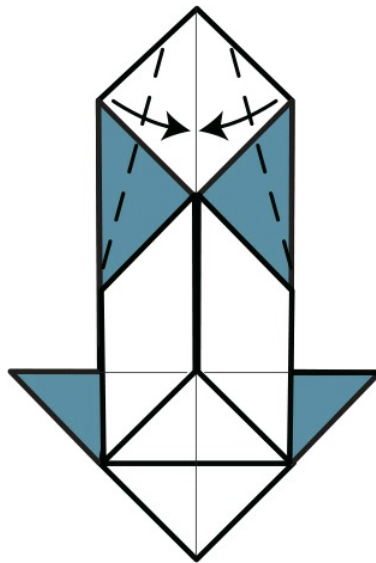
8 Tuck a flap underneath.



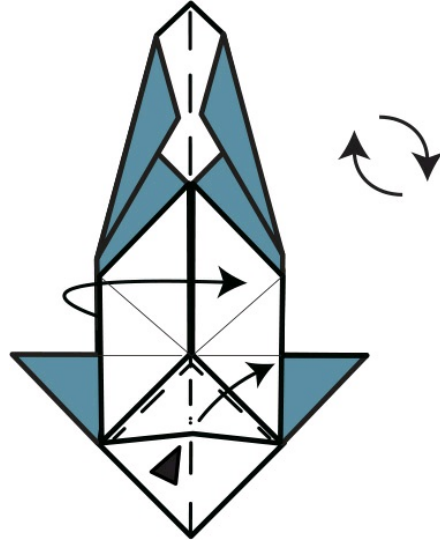
9 Fold steps 6–8 on the left side.



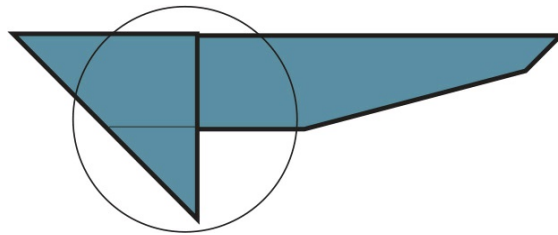
10 Swing the lowest flap downward.



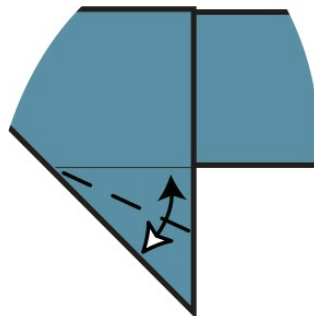
11 Fold the corners in to shape the tail. You can experiment with other similar creases.



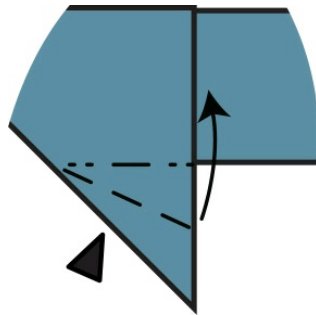
12 Fold in half to the right, lifting up a small triangle (used in step 23 to lock the sides together). Rotate the paper.



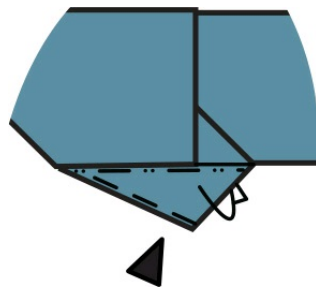
13 Now focus on the circled area.



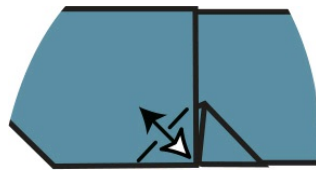
14 Fold the triangular flap in half, crease and unfold.



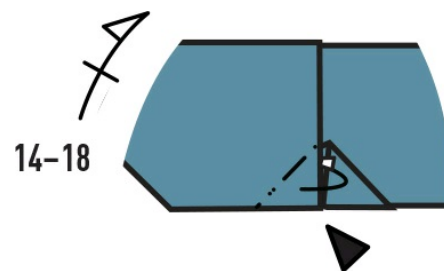
15 Rearrange the flap using these creases.



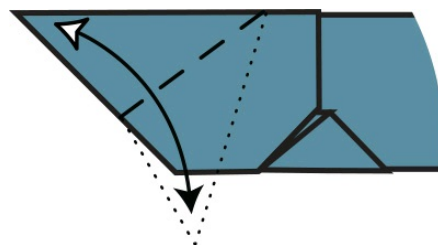
16 Push the lower corner inside.



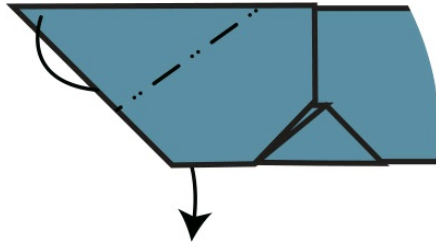
17 Crease and unfold.



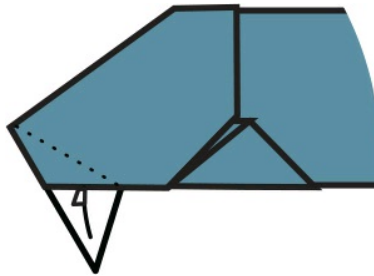
18 Reverse the corner inside. Repeat steps 14–18 on the underside.



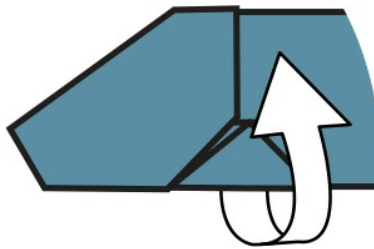
19 Fold the flap to the dotted outline, crease and unfold.



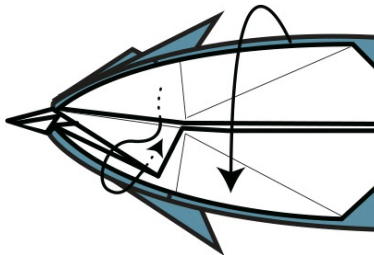
20 Reverse the corner in between the layers.



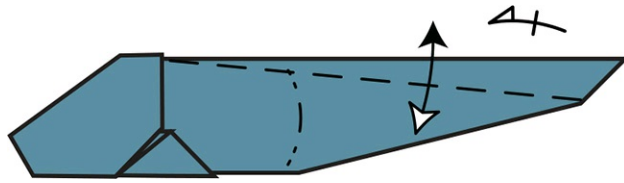
21 Fold the lower flap inside with a valley crease on the dotted line.



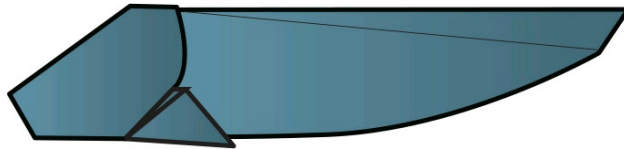
22 Lift the fish open to see inside.



23 Lift the upper white flap and wrap it around the small triangular flap as you close the model.



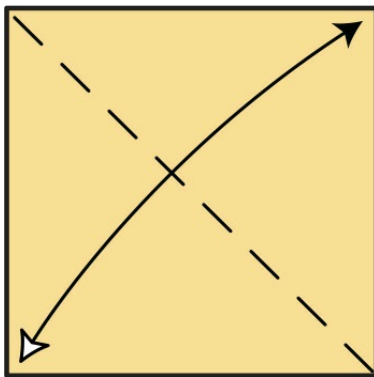
24 Make this (firm) crease through the top half only to form the fin.
Finally, round the body below the fin.



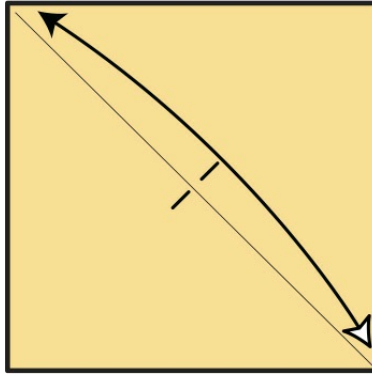


Banded Angelfish by Robert Lang

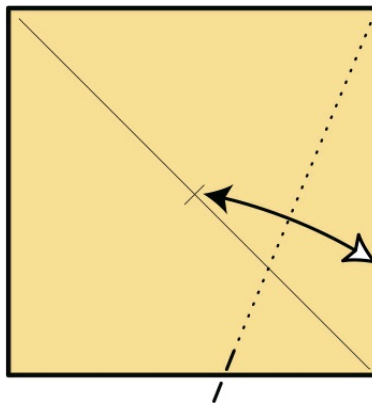
This is a visually impressive design, but one that you'll find a challenge to fold perfectly. Be prepared to make several as you practice.



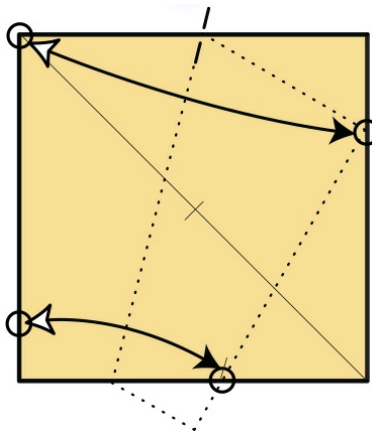
1 Colored side up, crease and unfold a diagonal.



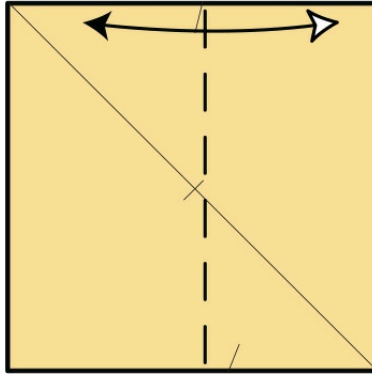
2 Make a tiny crease to mark the center point.



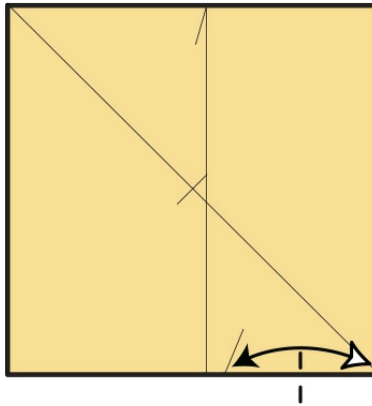
3 Fold from the top right corner so the right edge meets the center, crease only at the lower end.



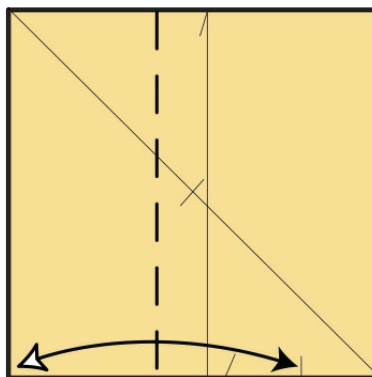
4 Fold so the circled points meet, crease only at the upper end.



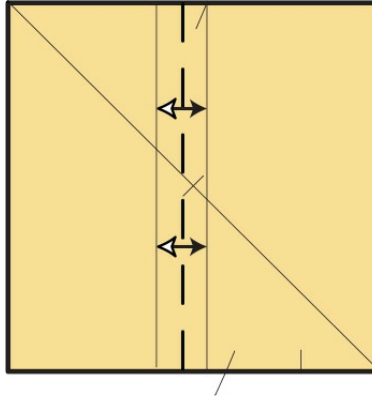
- 5** Make a vertical crease that passes through the most recent crease.
Unfold.



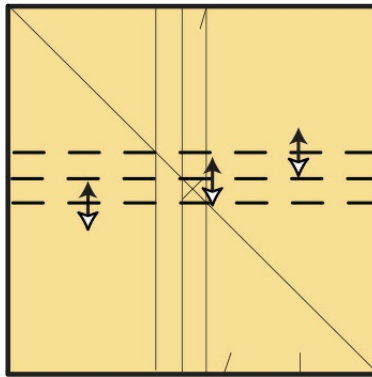
- 6** Fold the lower right corner to the crease made in step 3. Make a new pinch.



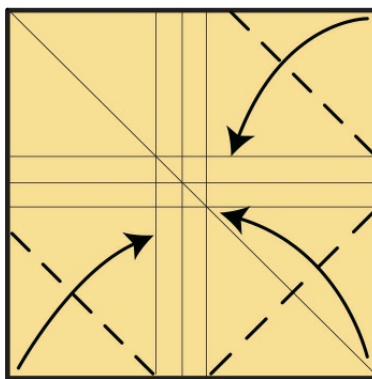
- 7** Fold the lower left corner to the most recent crease, and then unfold.



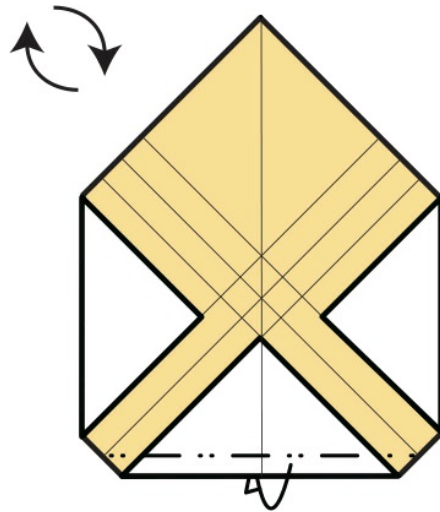
- 8** Fold the two vertical creases together to form a new crease, and then unfold.



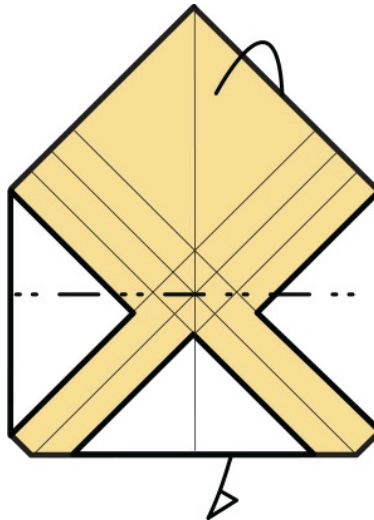
- 9** Carefully and accurately add matching horizontal creases where the vertical creases meet the diagonal crease.



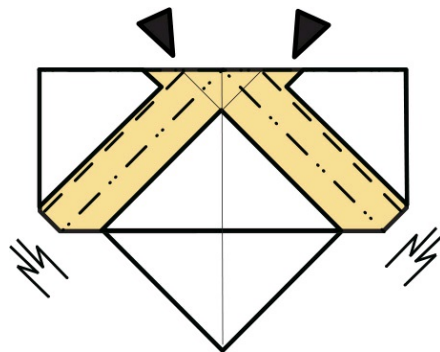
- 10** Fold in three corners as shown. Rotate the paper.



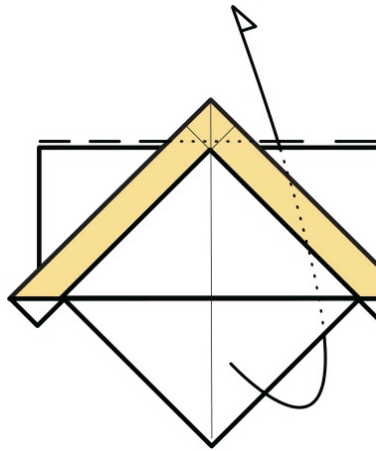
11 Fold a short strip underneath.



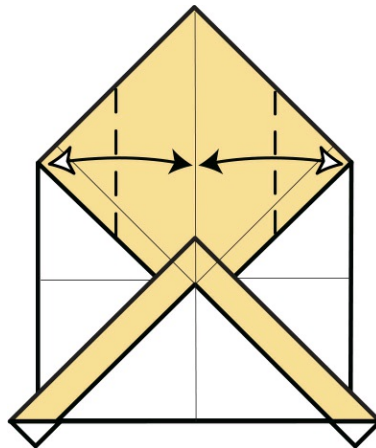
12 Fold the upper section behind where shown.



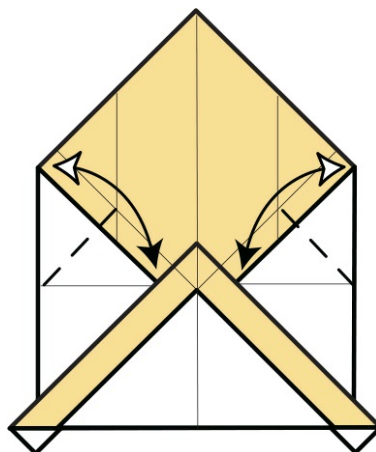
13 Reverse fold the upper corners in and out.



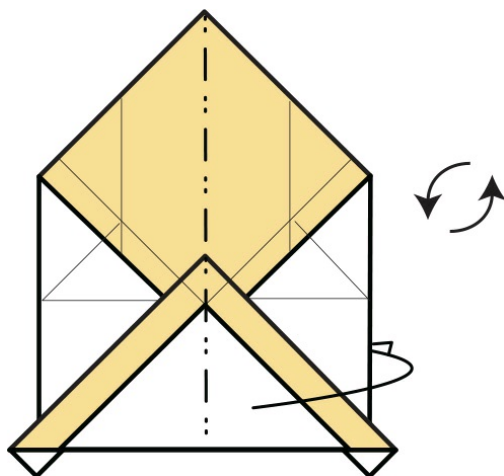
14 Fold the lower flap upward from underneath.



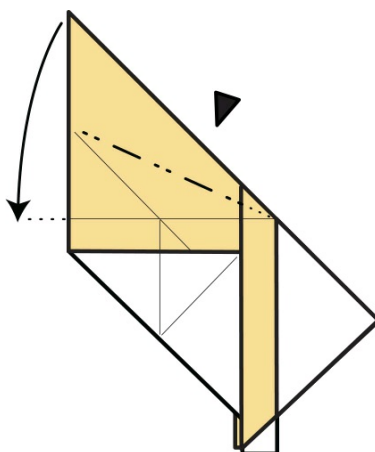
15 Crease where shown, and then unfold.



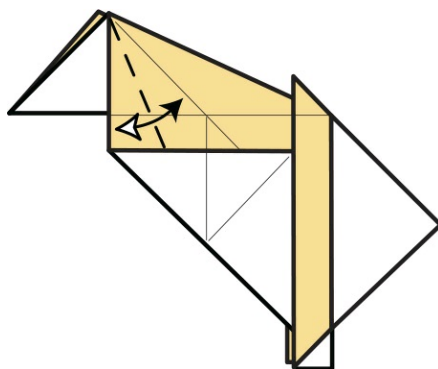
16 Crease where shown, and then unfold.



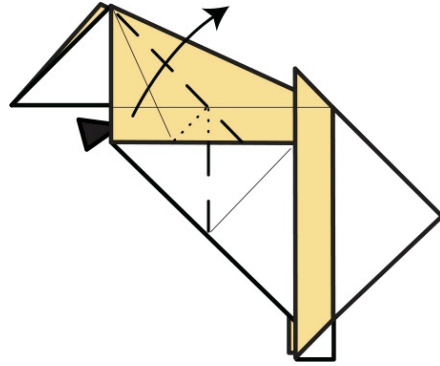
17 Fold the right half behind.



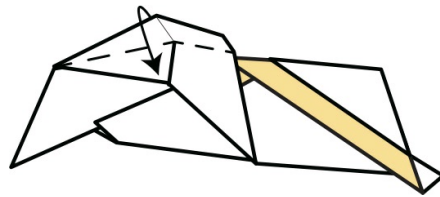
18 Reverse-fold the upper flap to meet the dotted line.



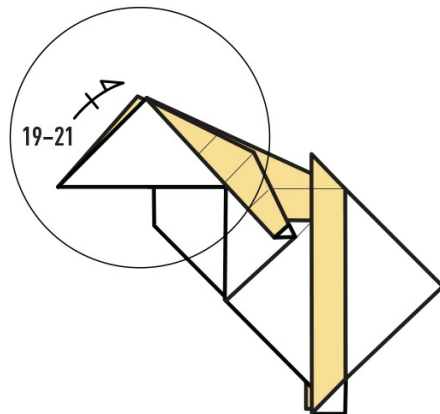
19 Crease where shown, and then unfold.



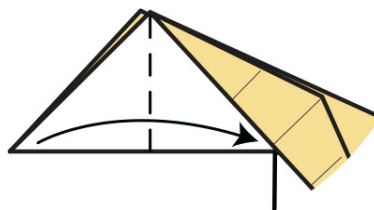
20 Partially (and carefully) fold over on the two valley creases to make the model 3D.



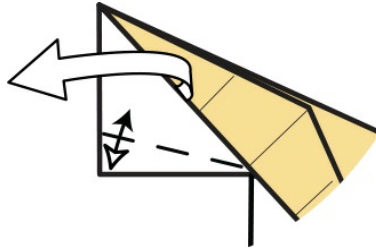
21 Flatten the paper on this crease — check the next drawing for guidance.



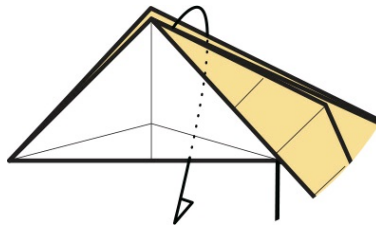
22 This is the result. Repeat steps 19–21 on the underside. Now focus on the circled area.



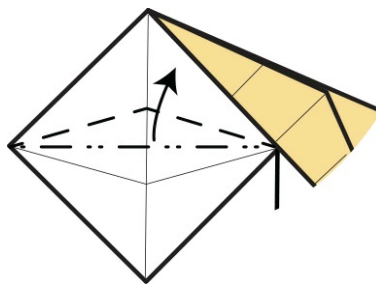
23 Fold the corner to the right.



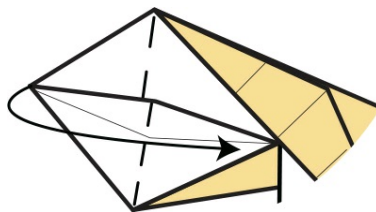
24 Crease at an angle approximately $\frac{1}{3}$ of the lower right corner, and then unfold.



25 Fold down a layer from behind.



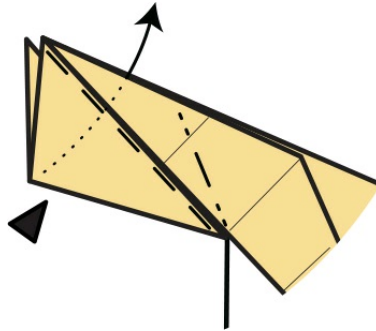
26 Carefully start to form these creases. The paper becomes 3D.



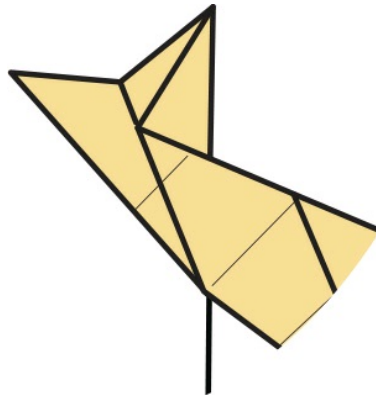
27 Fold the corner to the right.



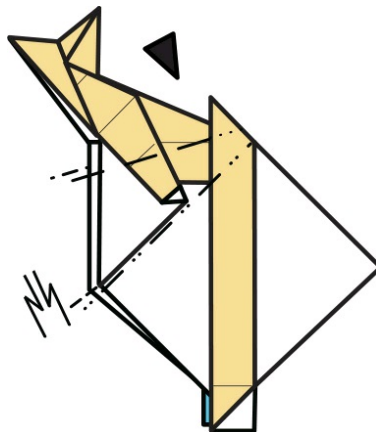
28 Fold the lower section underneath.



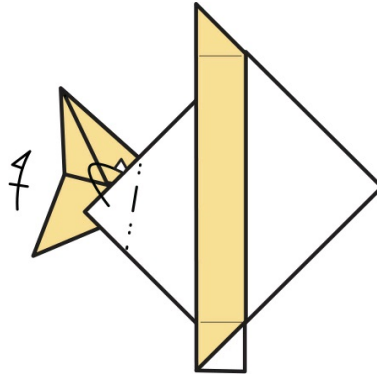
29 Form an offset reverse fold — check the next drawing.



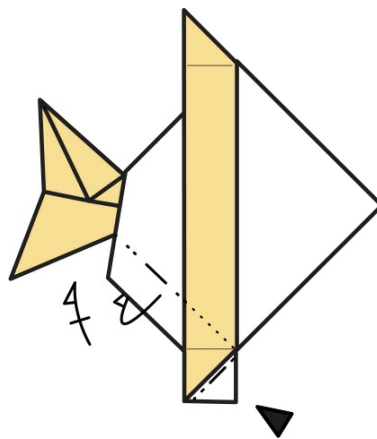
30 Complete. Now zoom out again.



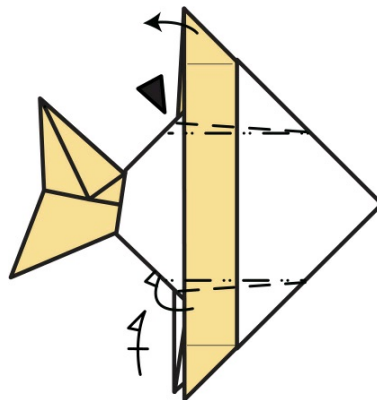
31 Fold the tail section inside the body.



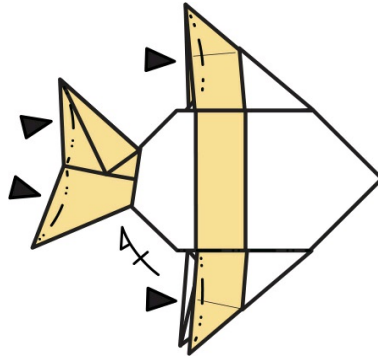
32 Fold a corner behind, front and back.



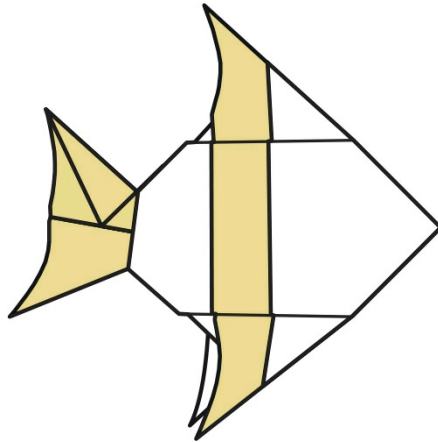
33 Fold a flap inside, squashing the white corner flat. Repeat underneath.



34 Making firm, sharp creases, fold the lower fins inside a little way. At the top, crease, and then push the fin inside. These folds are optional!



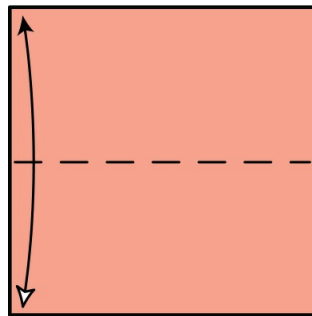
35 Make gentle curves on each of the fins.



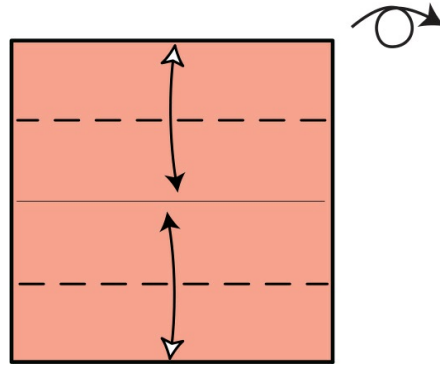


Fish Bones by Sébastien Limet

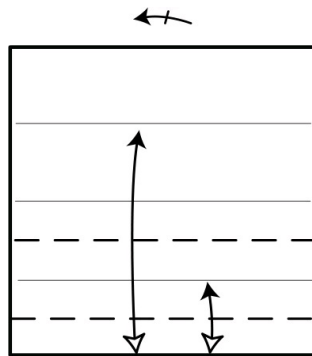
This is an amazing concept from one of France's leading creators. On his original model, he engineered the bones to be smaller as they went to the tail — can you work out how he did it?



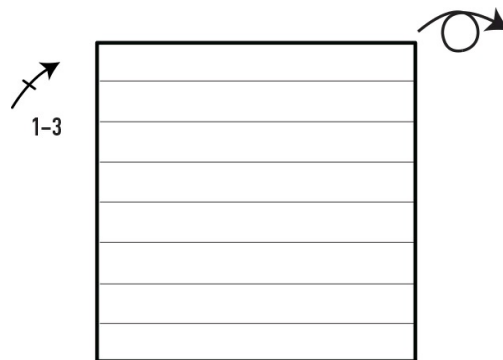
1 Colored side up, fold in half, crease and unfold.



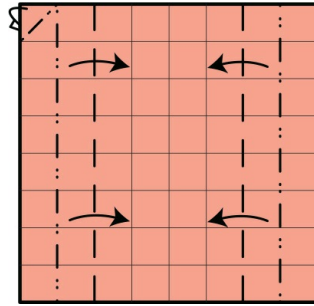
2 Fold opposite edges to the center, crease and unfold. Turn the paper over.



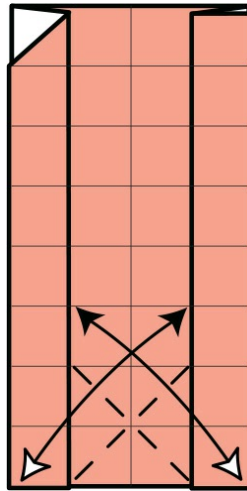
3 Add $\frac{1}{8}$ and $\frac{3}{8}$ creases on the top and bottom.



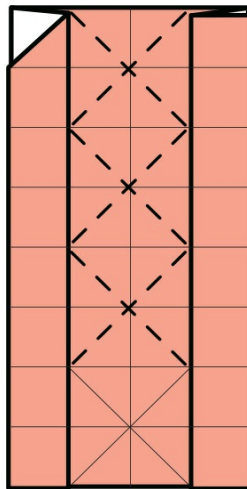
4 Repeat steps 1–3 on the vertical axis. Turn the paper over.



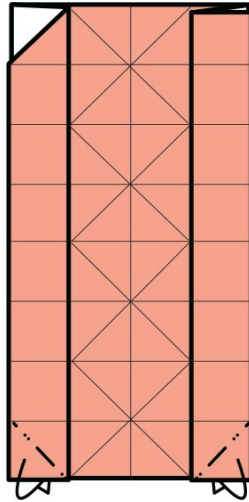
5 Fold the top left corner behind, and then pleat the sides inward.



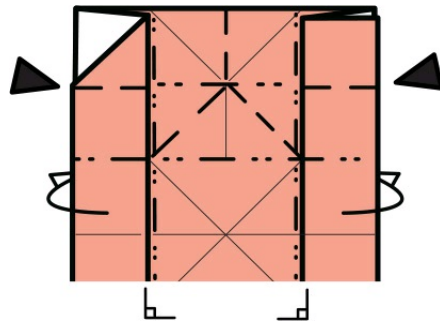
6 Crease and unfold.



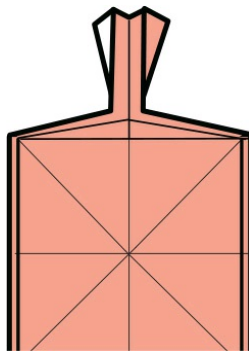
7 Make similar precreases where shown.



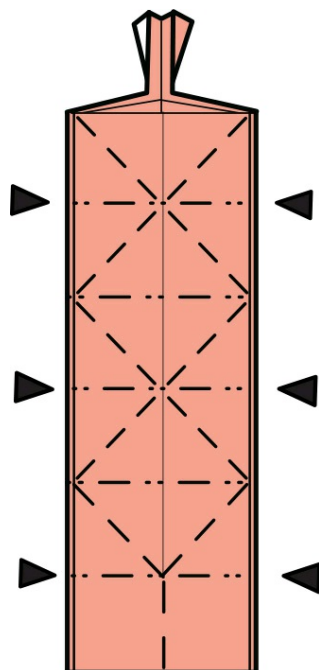
8 Fold all layers behind at the bottom. Now focus on the top half.



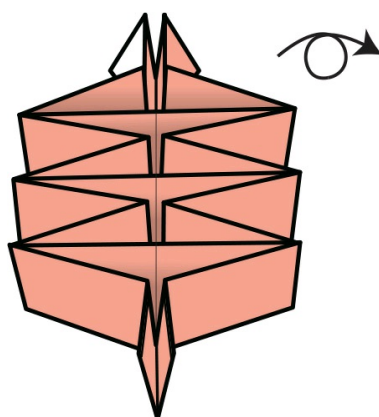
9 Form the model into 3D with these creases. The sides fold down at right angles.



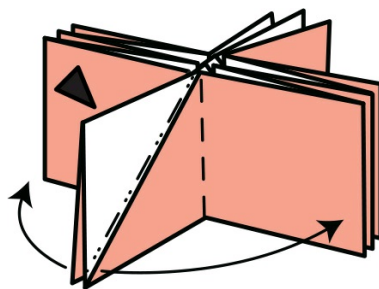
10 This is the result.



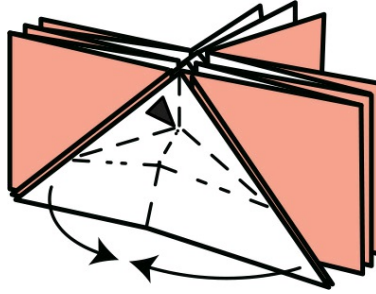
11 Collapse the rest of the paper in the same way.



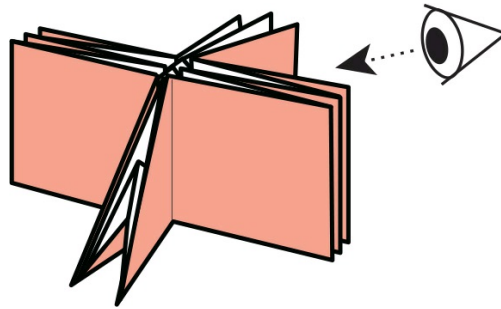
12 Flatten all flaps together, and then turn over.



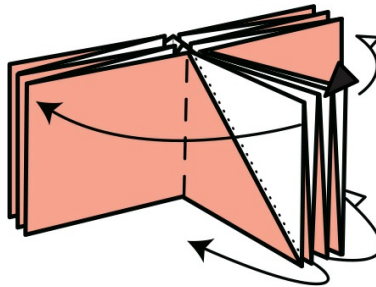
13 Open and flatten the white corner.



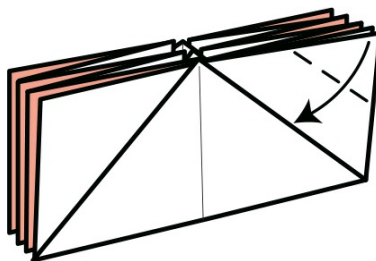
14 Fold the sides together, pressing in a small point.



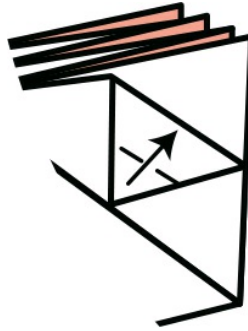
15 The result. Now look from a different angle.



16 Open and flatten the second corner from the left.



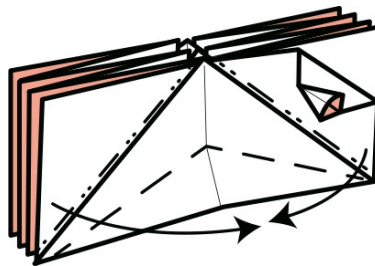
17 Fold in a corner.



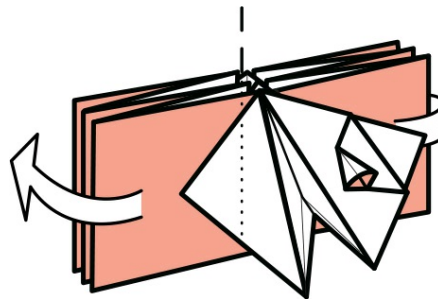
18 Fold the corner back.



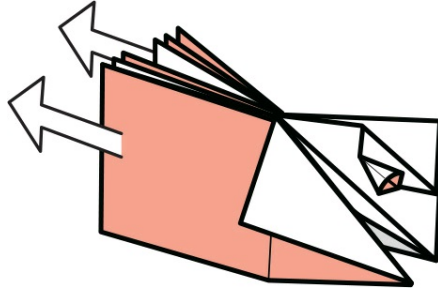
19 Lift and squash open the corner.



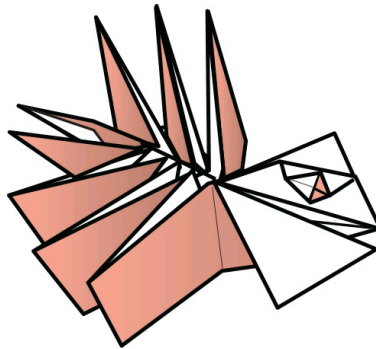
20 Fold together, forming a new valley crease. The outer flaps fold half way down.



21 Fold the sides of the fish skeleton behind.



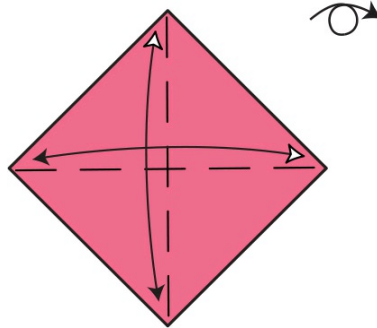
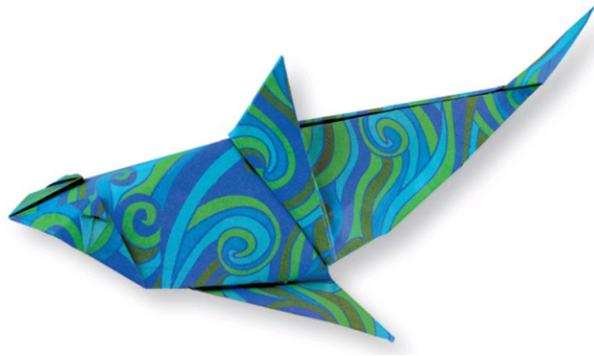
22 Carefully ease out the layers to make the skeleton slightly elongated.



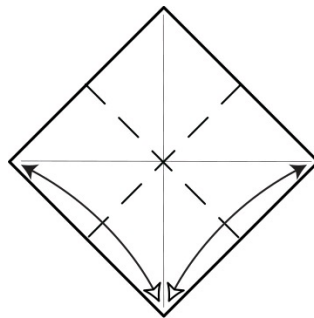


Shark by Nick Robinson

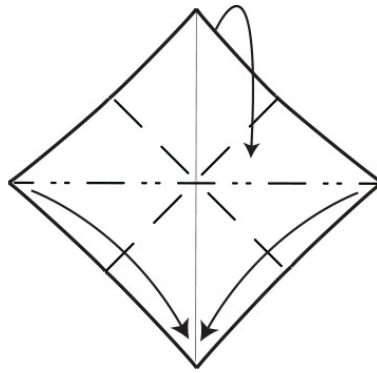
This model is very lifelike thanks to the gentle shaping folds at the end.



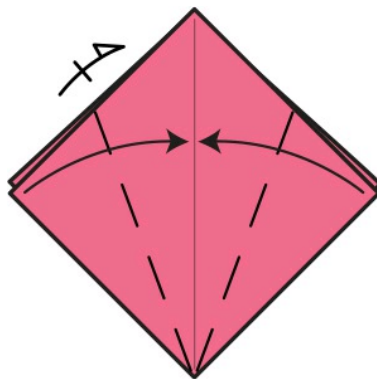
- 1** Colored side up, crease and unfold both diagonals. Turn the paper over.



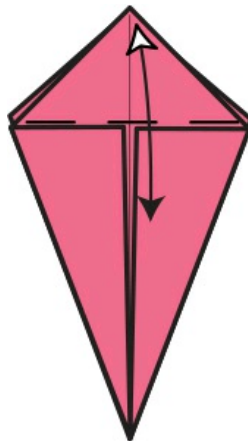
- 2** Crease in half and unfold from side to side, in both directions.



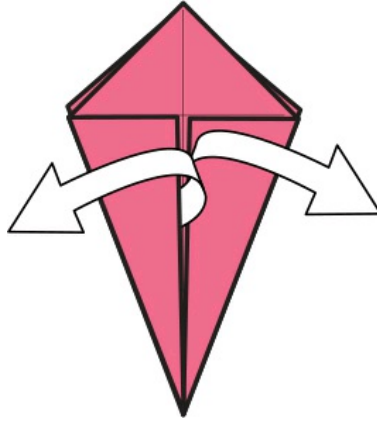
3 Collapse the paper downward on these creases.



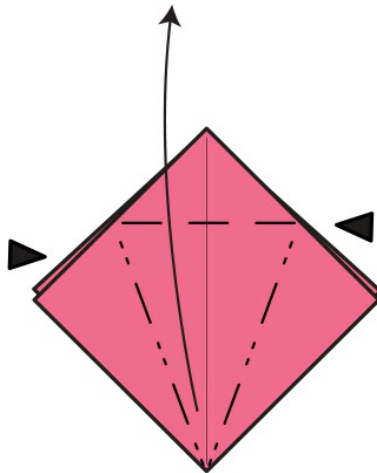
4 Fold the lower edges to the vertical center. Repeat underneath.



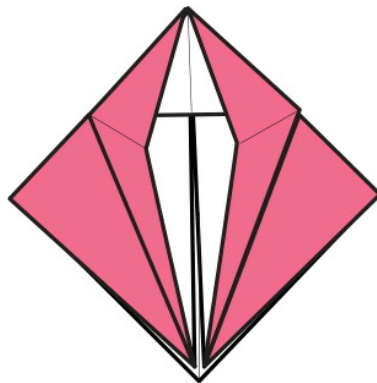
5 Fold down a triangular flap, and then unfold.



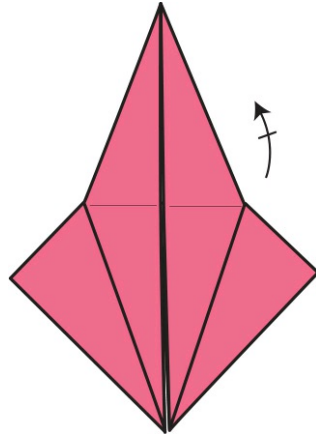
6 Unfold two flaps.



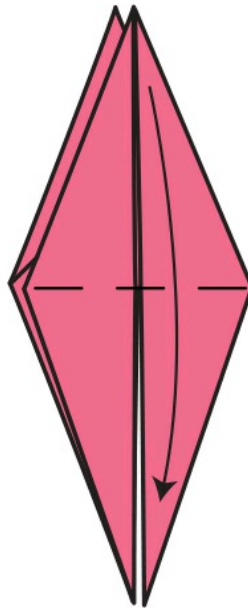
7 Fold the flap up, bringing the sides inward.



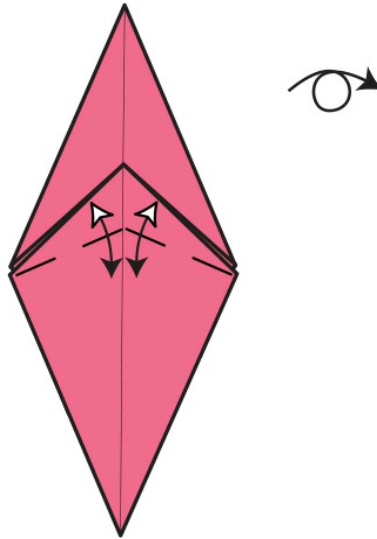
8 The fold in progress.



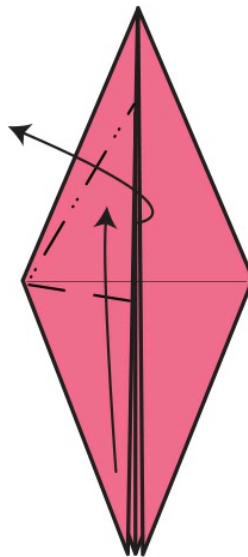
9 The move complete. Repeat on the underside.



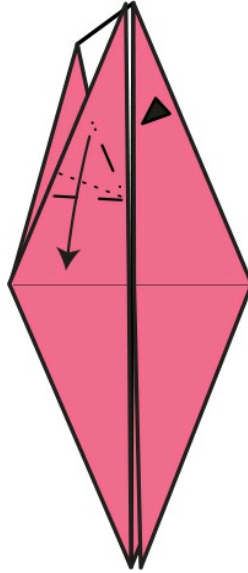
10 Fold a single flap down.



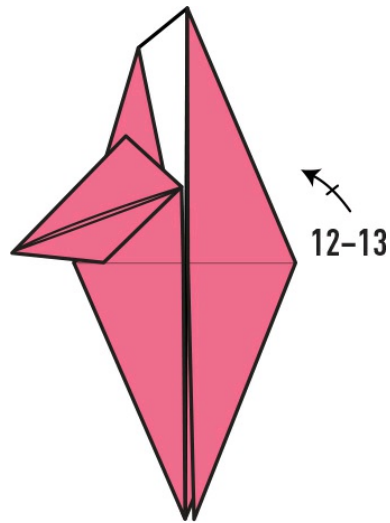
11 Crease and unfold on both sides. Turn the paper over.



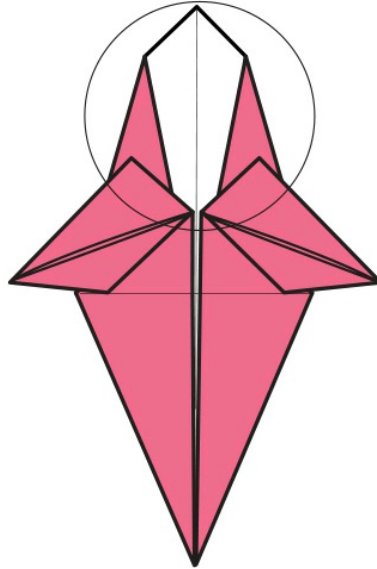
12 Pull out paper and flatten as you fold the lower flap upward.



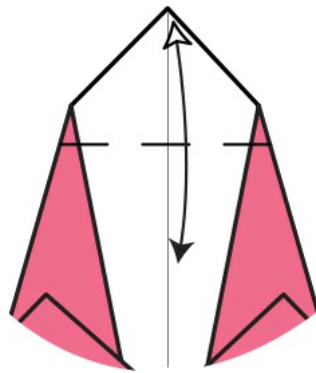
13 Open and squash the flap (the dotted line is a valley) — refer to the next diagram.



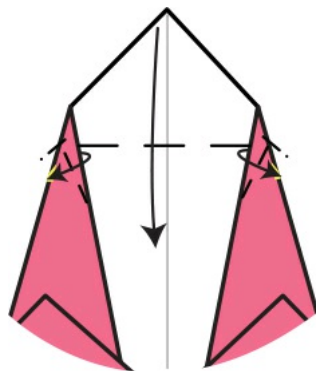
14 Complete — repeat steps 12–13 on the right side.



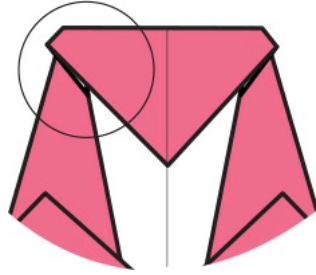
15 The move complete. Now focus on the circled area.



16 Fold and unfold. Note the crease is below the top of the colored areas.



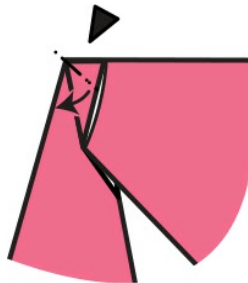
17 Fold the flap down, opening and flattening the colored layer on each side.



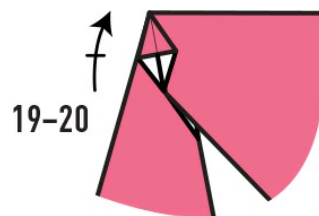
18 The move complete. Now focus on the circled area.



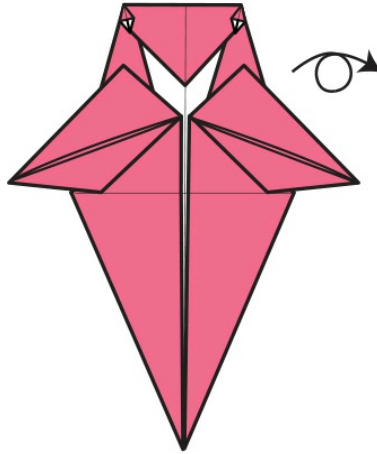
19 Fold the flap to the right.



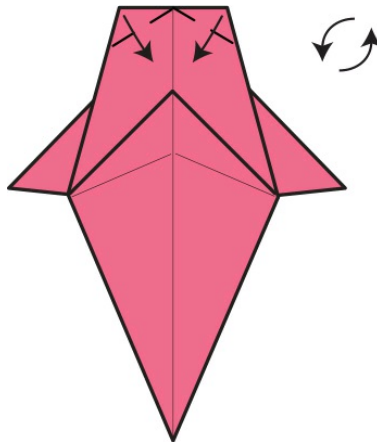
20 Lift, open and squash the point.



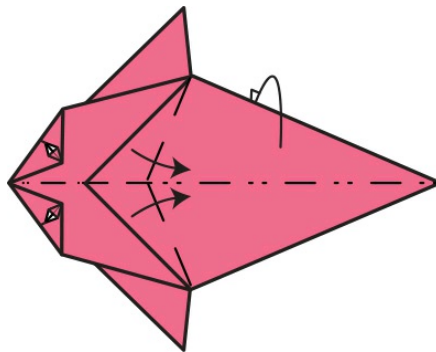
21 The result. Repeat steps 19–20 on the right.



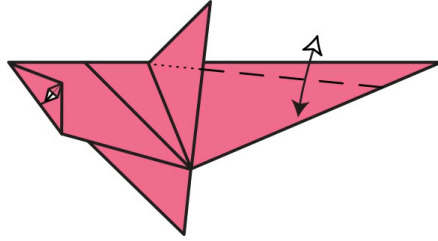
22 The model so far. Turn the paper over.



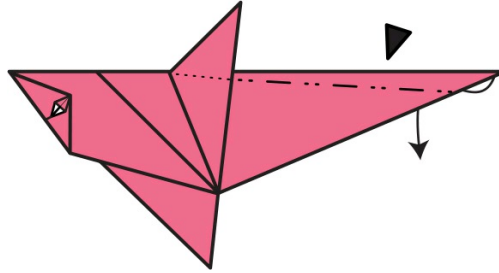
23 Fold the corners over, but not all the way in. Rotate the paper.



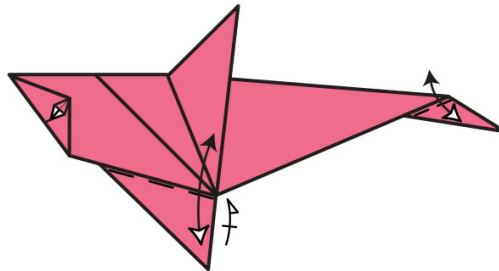
24 Fold the top half behind, forming the valley creases as you go.



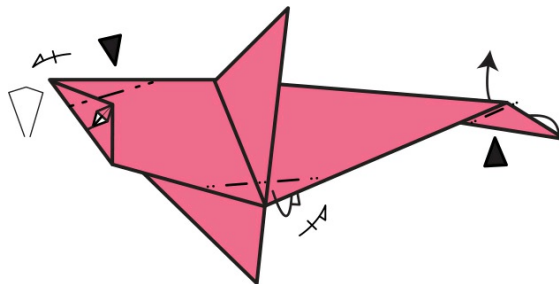
25 Crease and unfold a narrow flap.



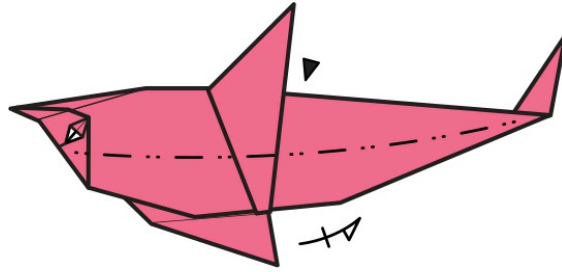
26 Reverse the flap inside.



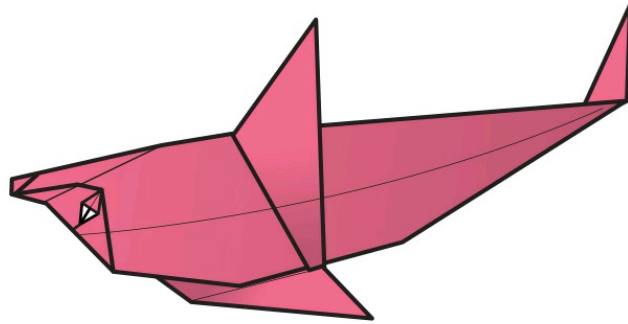
27 Fold and unfold the tail and the flaps underneath.



28 Reverse the tail flap upward. Fold the lower flap inside on both sides. Gently flatten the nose to match the profile.



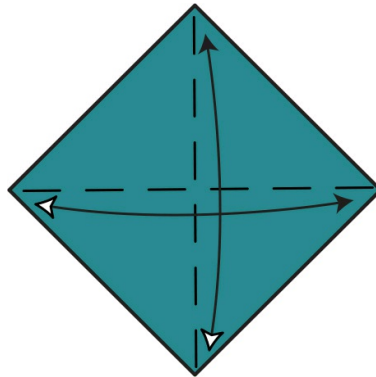
29 Finally, add a gentle curve to the body to make it slightly three dimensional.



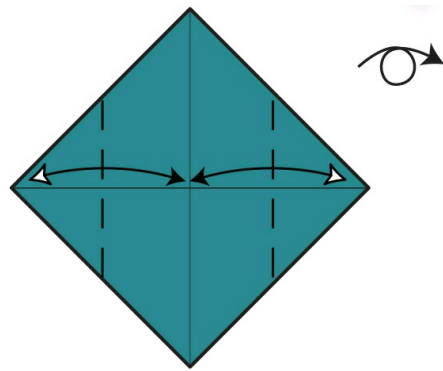


Manta Ray by Nick Robinson

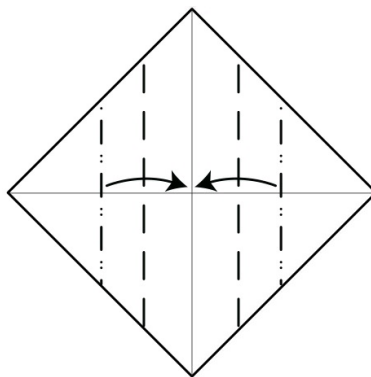
The aim with this design is to capture the sinuous form of the creature. This is best done by “wet folding.”



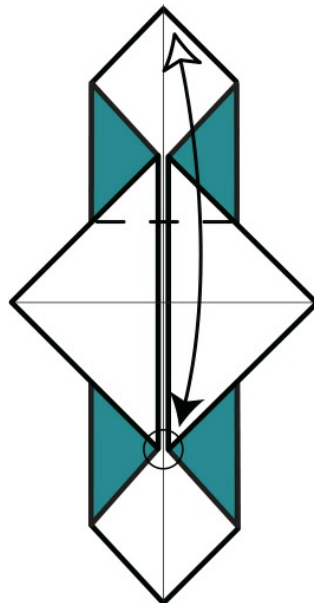
1 Crease and unfold both diagonals.



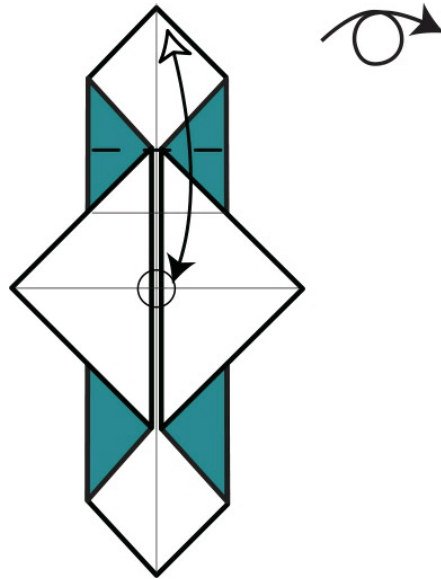
2 Fold side corners to the vertical center and unfold. Turn over.



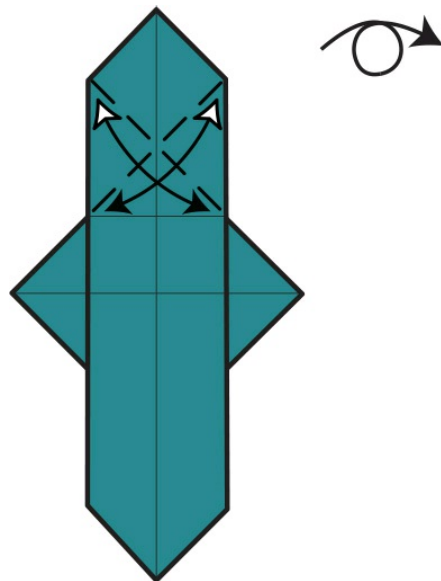
3 Pleat the sides toward the center, using existing mountain folds.



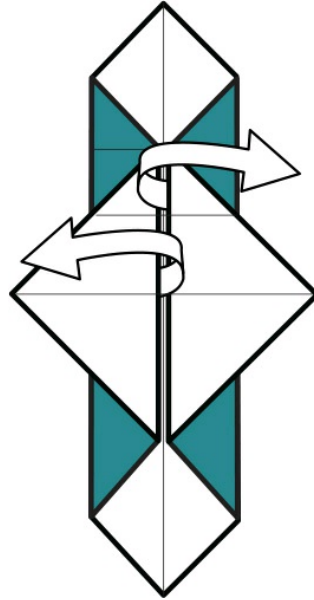
4 Fold to the circled section and unfold.



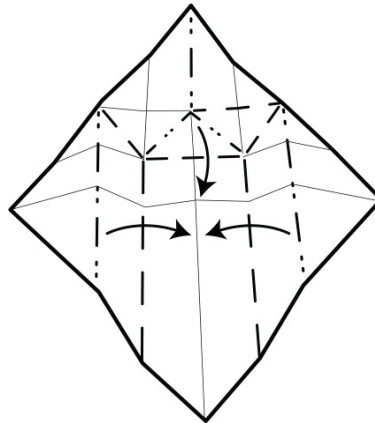
5 Fold to the circled section and unfold. Turn over.



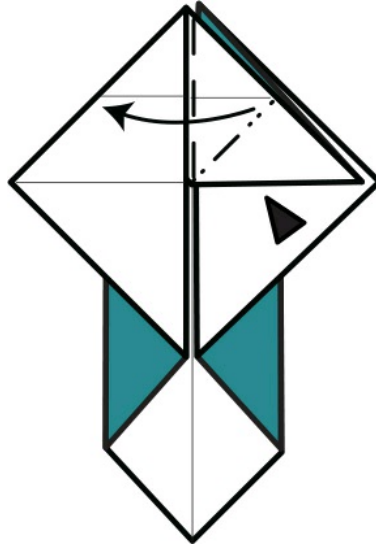
6 Crease and unfold along the diagonals. Turn over.



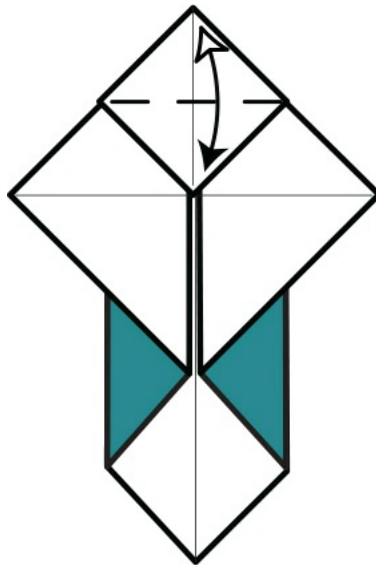
7 Open out the pleats. Do not flatten completely.



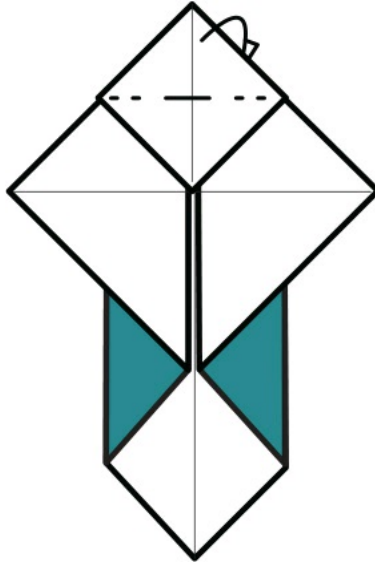
8 Reform the pleats on the side, while adding the diagonal folds from the existing creases.



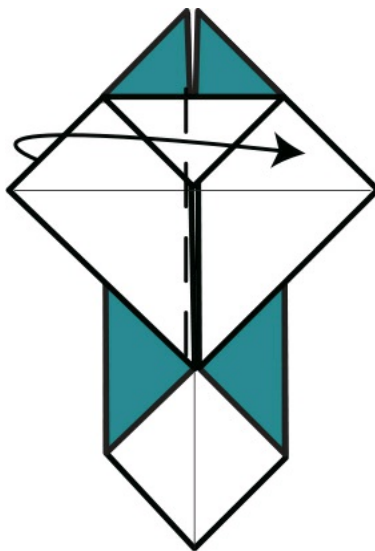
9 Open out the center flap and squash it flat.



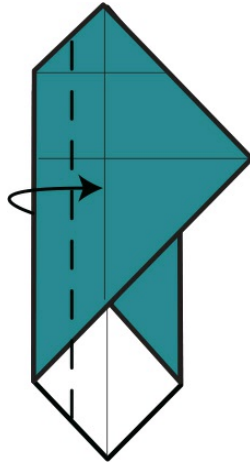
10 Crease the top layer.



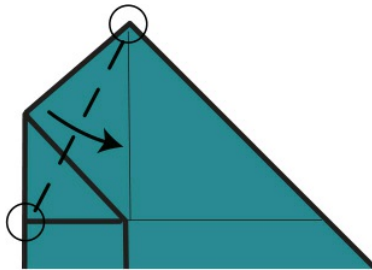
11 Fold the flap inside.



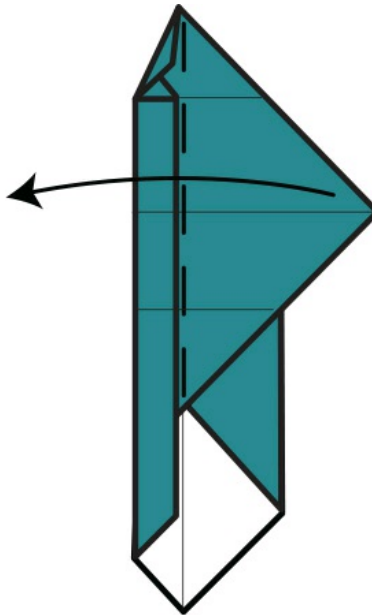
12 Fold over two flaps together.



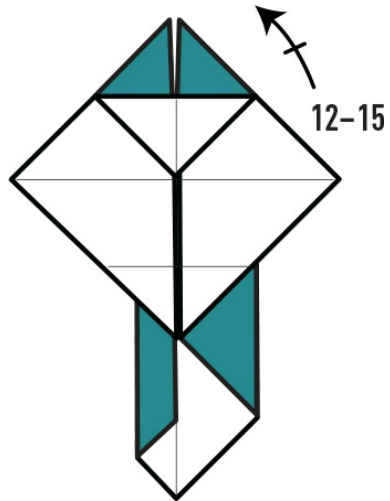
13 Fold the edge to the center.



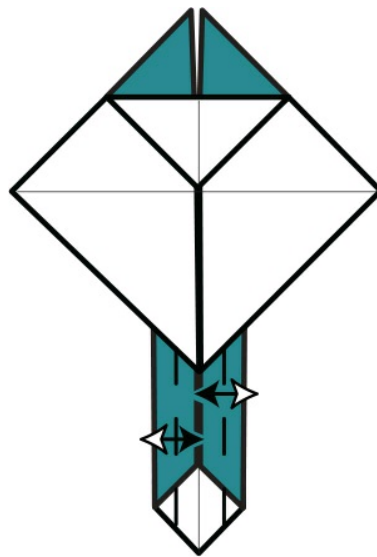
14 Form a crease between the two circled points.



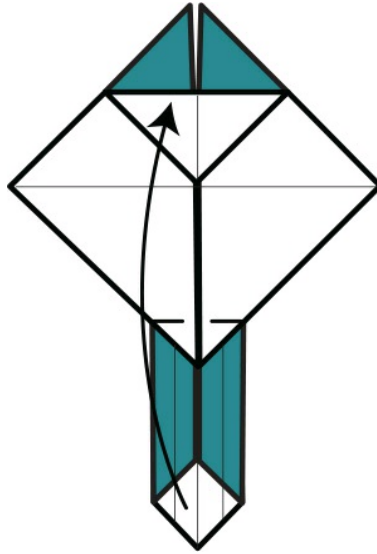
15 Fold over two layers.



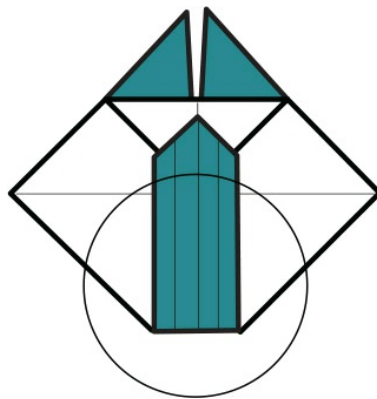
16 Repeat steps 12–15 on the other side.



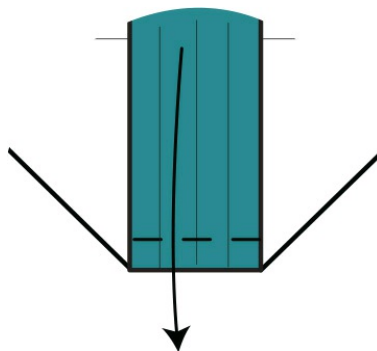
17 Fold the sides to the center, and then unfold.



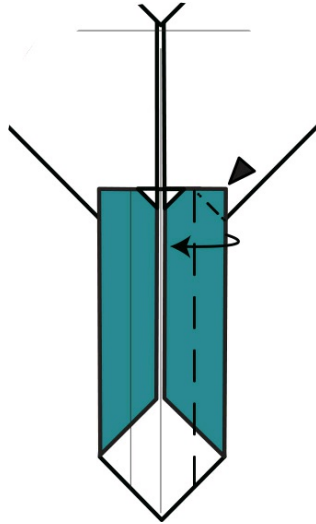
18 Fold the bottom flap up.



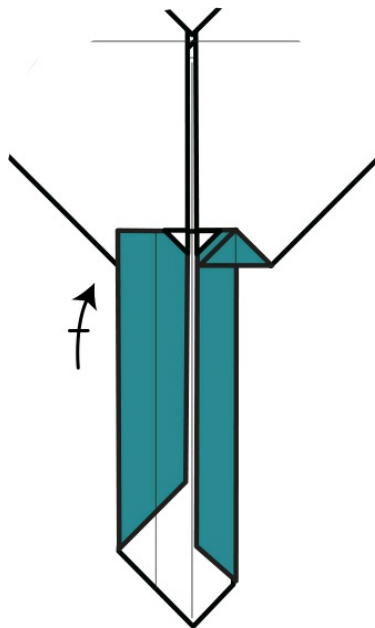
19 Now focus on the circled area.



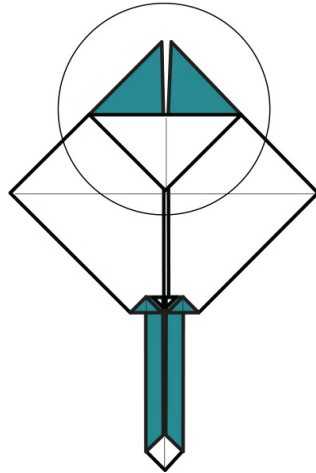
20 Fold the flap down.



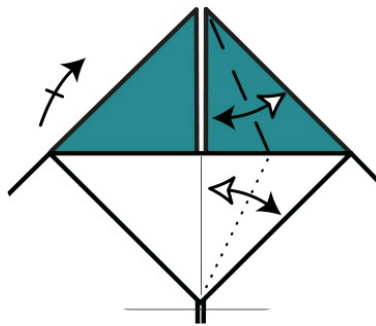
21 Fold the edge to the center, allowing a squash to form at the corner.



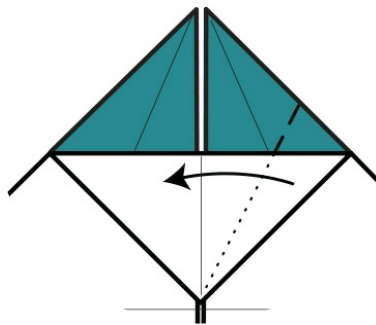
22 Repeat step 21 on the other side.



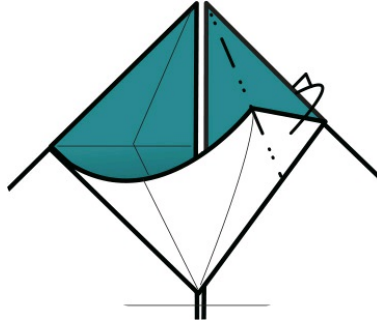
23 Now focus on the circled area.



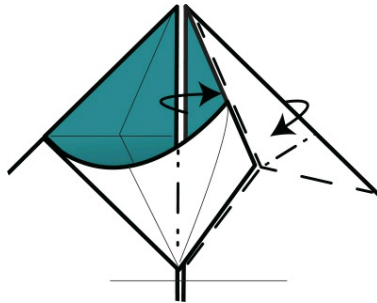
24 Crease each angle in half, noting that the lower part is hidden.



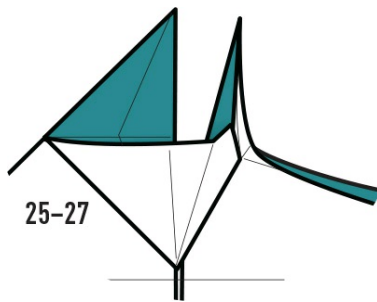
25 Fold along the lower layer only. The top layer will pop out.



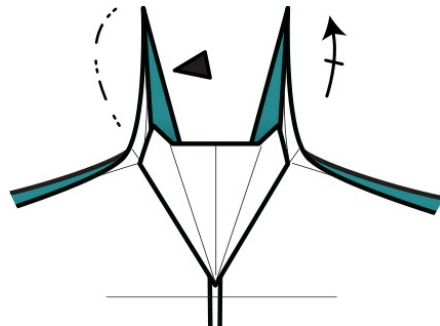
26 Fold the edge behind.



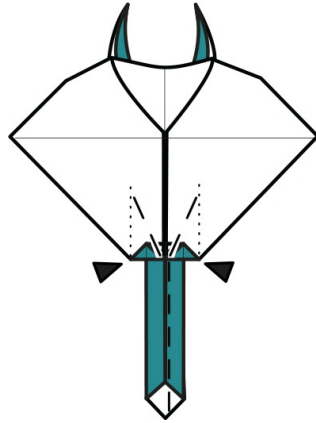
27 Shape the edge by folding in. This section will not lay flat.



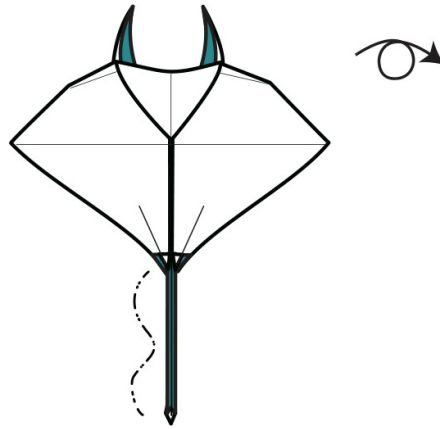
28 Repeat steps 25–27 on the other side.



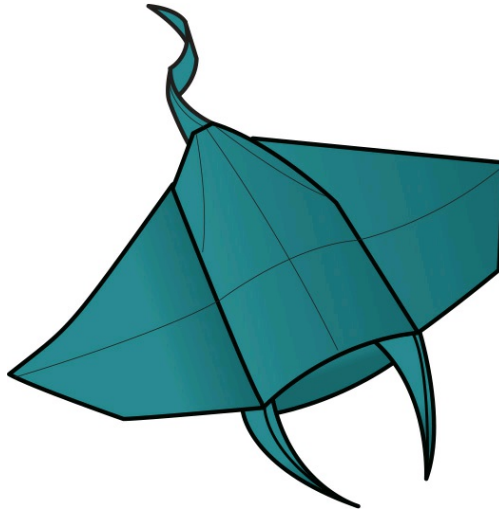
29 Curl the point inward. Repeat on the other side.



30 Pinch the tail in half, shaping the body along with it.



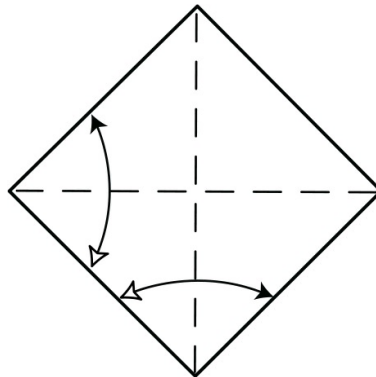
31 Curl the tail flap and turn over.



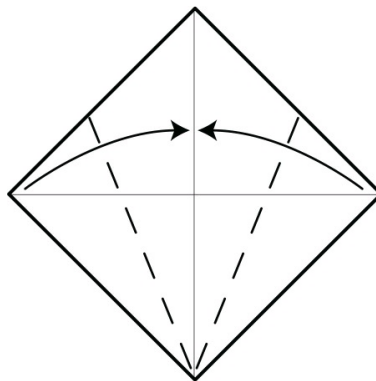


Koi Carp by Nick Robinson

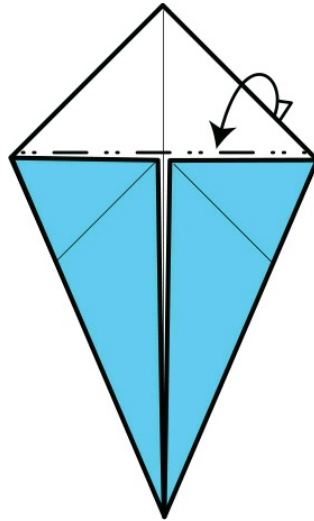
This is modeled after a type of carp mostly found in America. You'll need to fold carefully and accurately. Try to round the body at the end to give it more life.



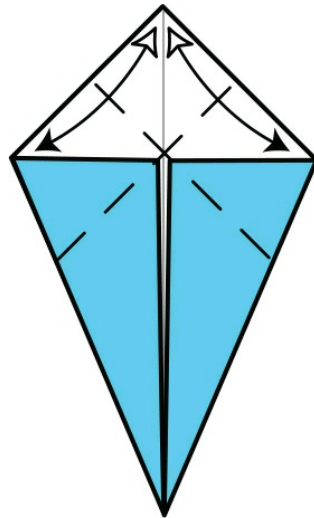
1 Crease and unfold both diagonals.



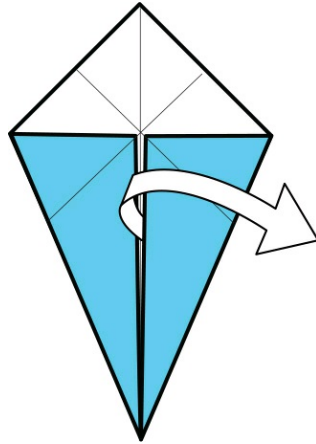
2 Fold lower edges to the vertical center.



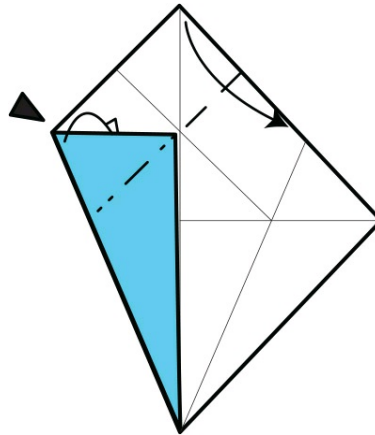
3 Fold the white section behind, crease and unfold.



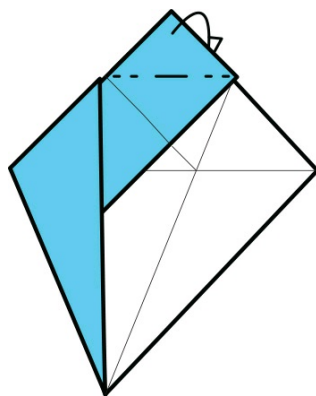
4 Fold corner to corner, crease and unfold, in both directions.



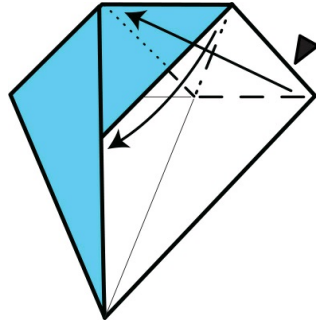
5 Unfold the flap on the right.



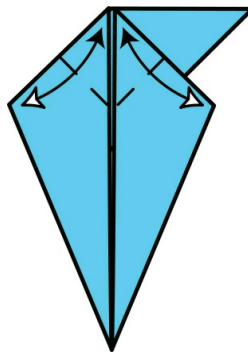
6 Reverse the corner inside as you fold the flap over.



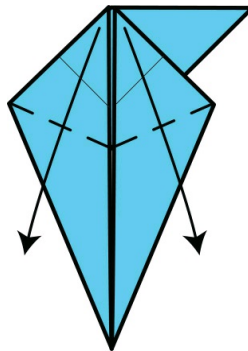
7 Fold the upper triangular flap behind.



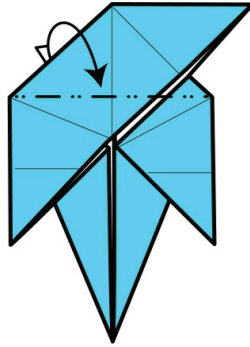
- 8** Fold the upper white flap down while bringing the white corner to the top, folding it to a point.



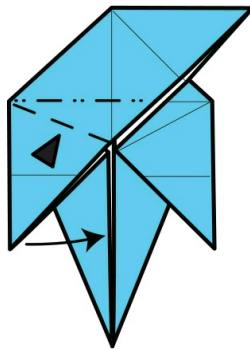
- 9** Make two precreases.



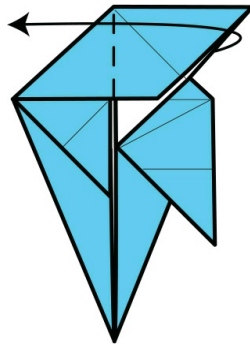
- 10** Fold down two flaps.



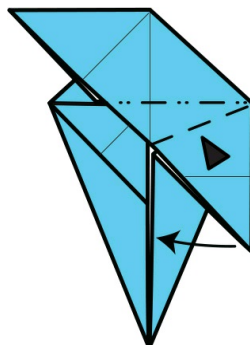
11 Fold behind, crease and unfold.



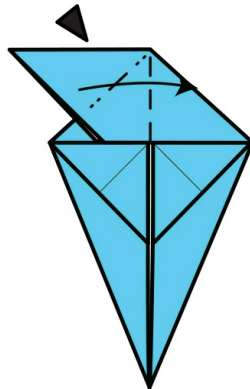
12 Fold paper inside — the lower corner moves to the right.



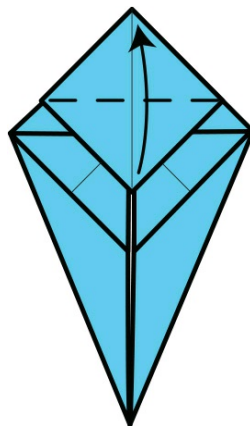
13 Fold the upper flap to the left.



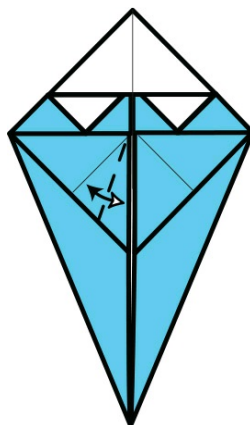
14 Repeat step 12 on the right side.



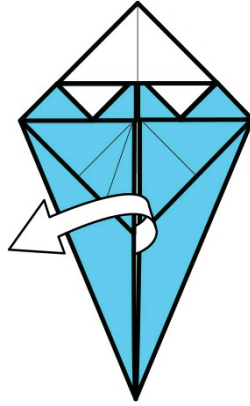
15 Open and squash the top flap.



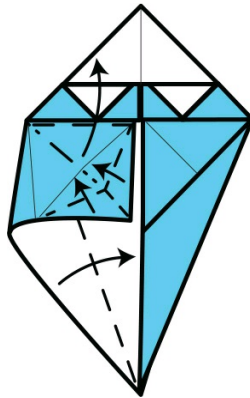
16 Fold the upper square in half.



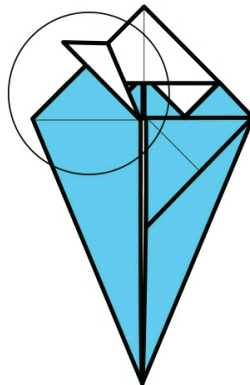
17 Fold the vertical edge to the crease, and then unfold.



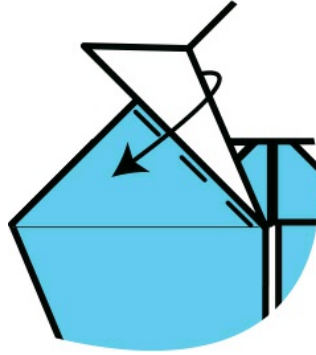
18 Ease open the lower layers on the left.



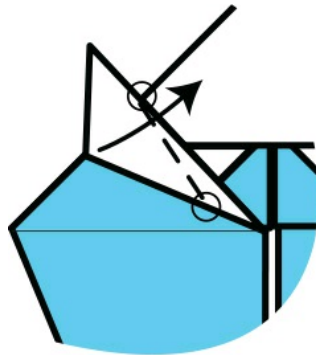
19 Fold over the short valleys to form a (white) point then flatten the paper upward.



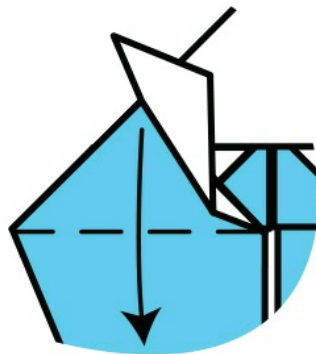
20 Now focus on the circled area.



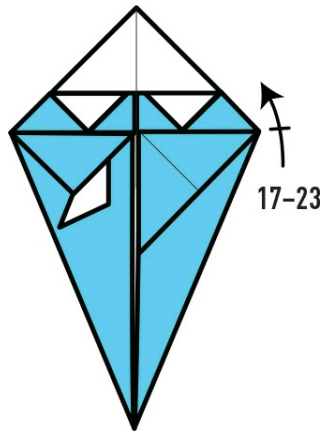
21 Fold the white flap over.



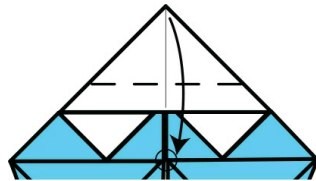
22 Fold over between the circled points.



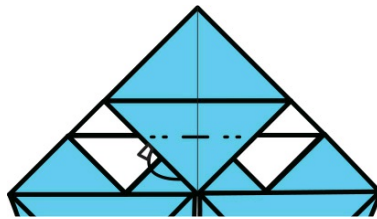
23 Fold the flap down.



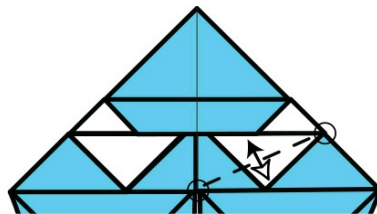
24 Repeat steps 17–23 on the right side.



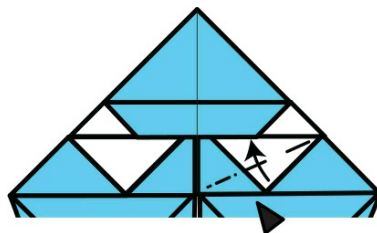
25 Fold the top corner to the circled point.



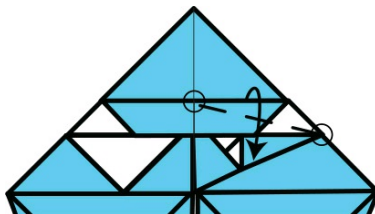
26 Tuck the corner behind an edge.



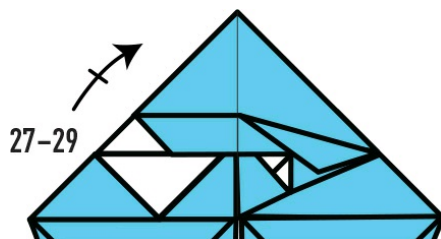
27 Fold and unfold between the circled points.



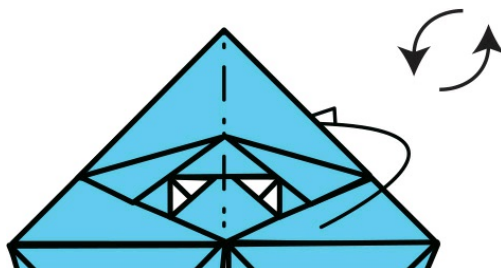
28 Reverse the corner inside.



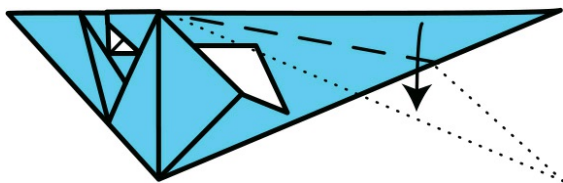
29 Fold over between the circled points.



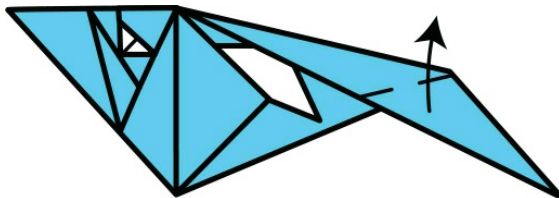
30 Repeat steps 27–29 on the left.



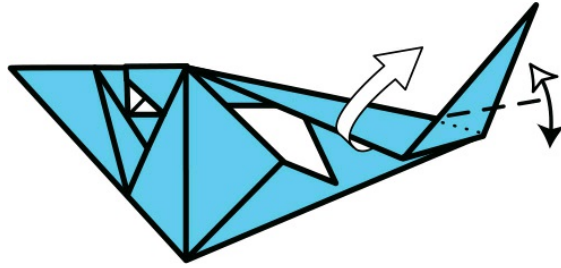
31 Fold in half and rotate.



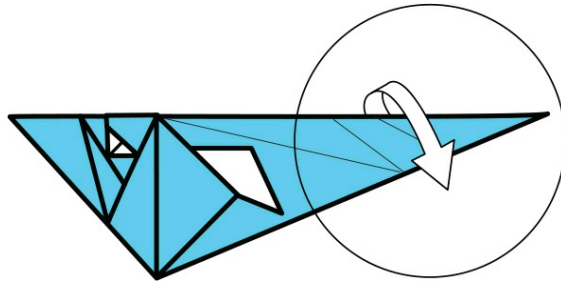
32 Fold the tail flap down.



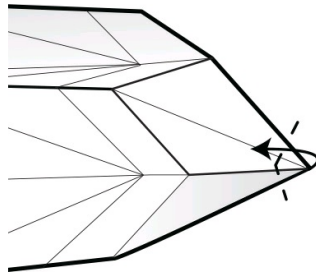
33 Fold the same flap back up.



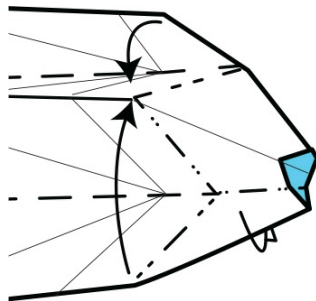
34 Fold the flap to the dotted line, crease and unfold the tail fully.



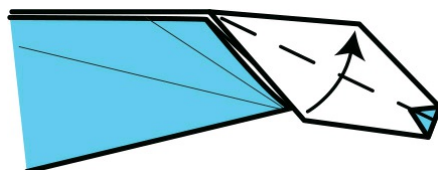
35 Open out the layers on the right.



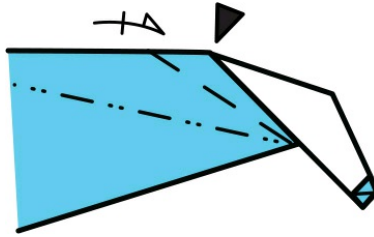
36 Fold the tip over.



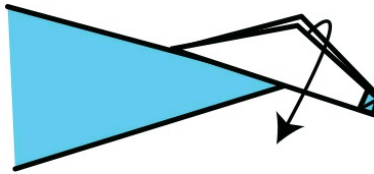
37 Reform the body using these creases.



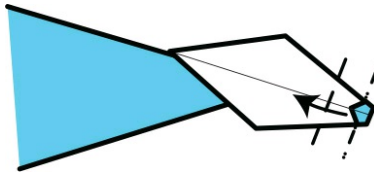
38 Fold the tail in half.



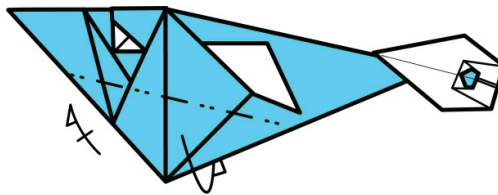
39 Reverse the tail in and out on existing creases.



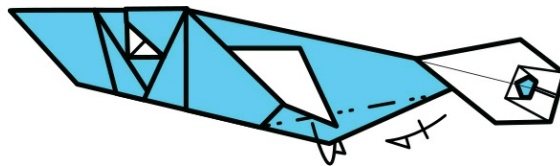
40 Open half of the tail.



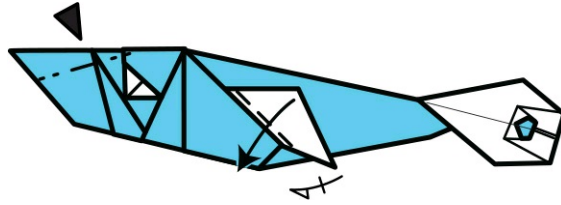
41 Make a pleat.



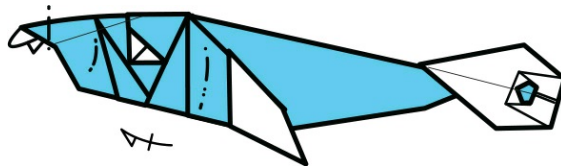
42 Fold layers inside on both sides.



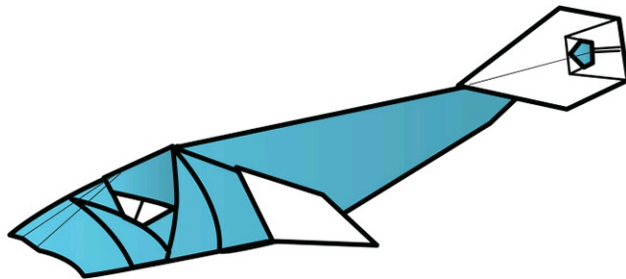
43 Make similar folds toward the rear.



44 Fold the fins down and gently flatten the head.



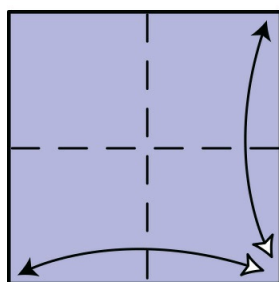
45 Fold the front corner inside and gently shape the body.



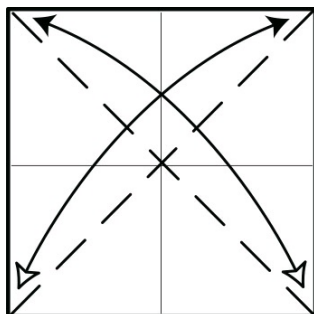


Puffer Fish by Sébastien Limet

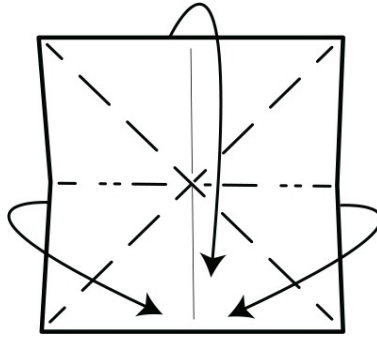
At the end of this model, you blow into it to form a fully 3D fish.



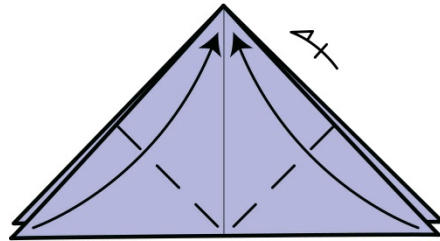
- 1 Colored side up, fold in half from side to side, crease and unfold, in both directions. Turn the paper over.



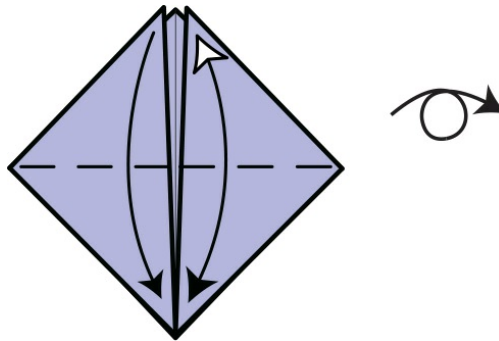
- 2 Fold and unfold both diagonals.



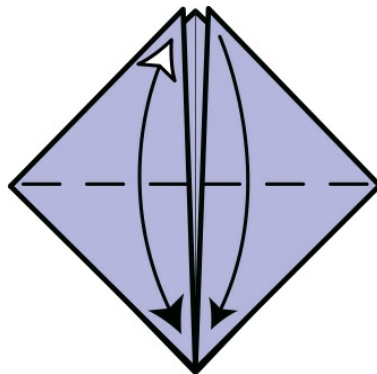
3 Fold the paper down using these creases.



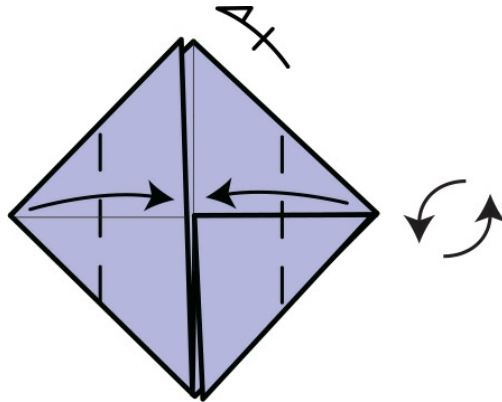
4 Fold two corners to the top corner. Repeat underneath.



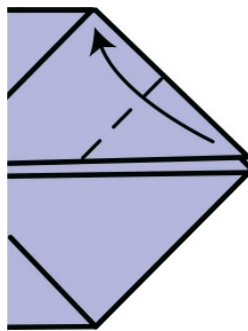
5 Fold both corners to the center of the lower edge. Unfold the right flap. Turn the paper over.



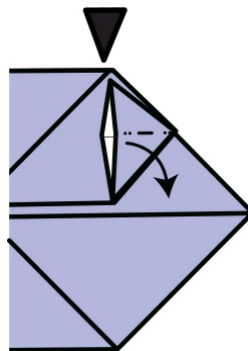
6 Repeat the last step, but unfold the left flap.



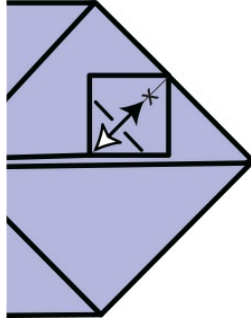
7 Fold the left and right corners to the center. Repeat underneath. Rotate the paper counterclockwise.



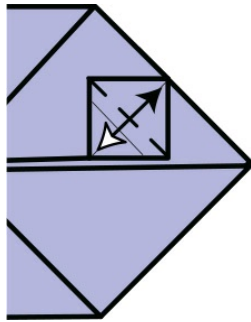
8 Fold corner to corner.



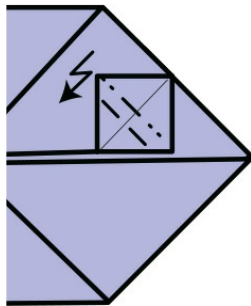
9 Lift, open, and squash the flap.



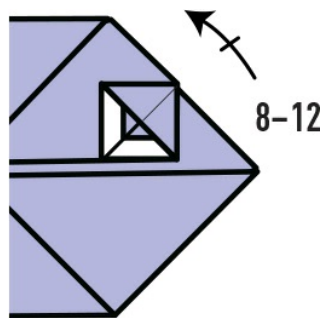
10 Fold the corner a little way over, and then unfold.



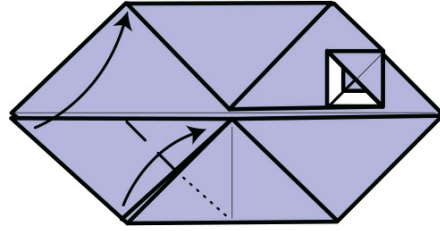
11 Crease and unfold a small diagonal.



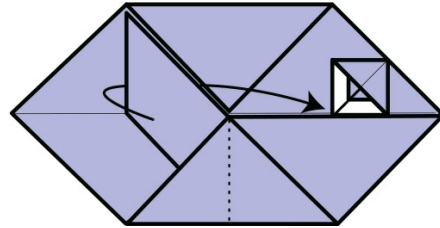
12 Pleat the corner inward. You will need to unfold a bit to do this.



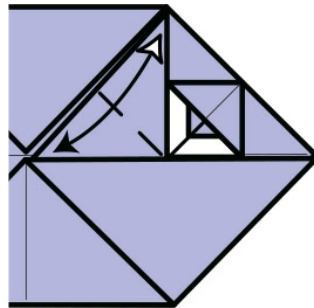
13 Repeat steps 8–12 on the underside.



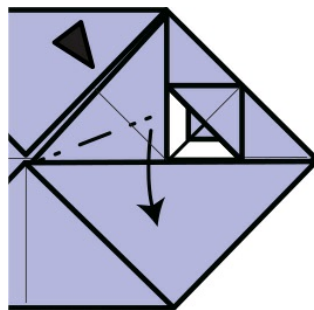
14 Carefully fold over the inner flap.



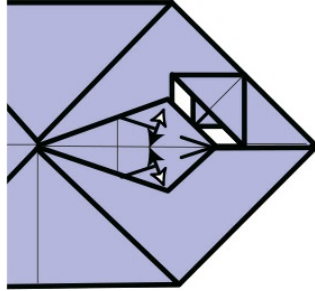
15 Swing the flap to the right by making a mountain fold along the dotted line.



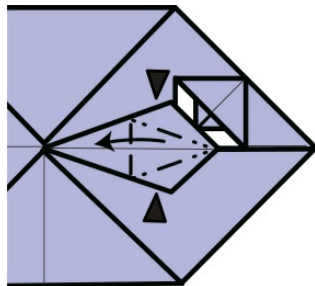
16 Fold the triangle in half, and then unfold.



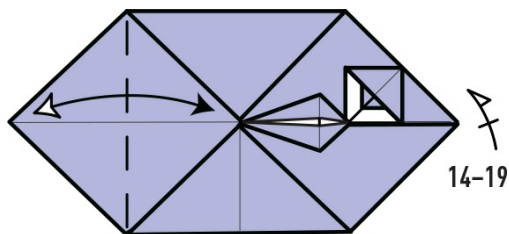
17 Lift and squash the flap evenly to both sides.



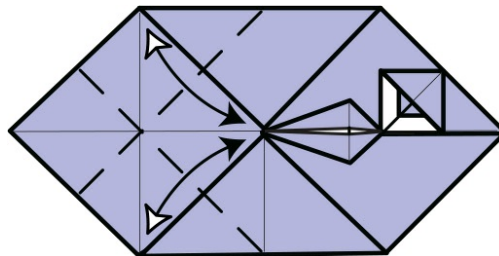
18 Fold the short edges of the kite shape to the center, crease and unfold.



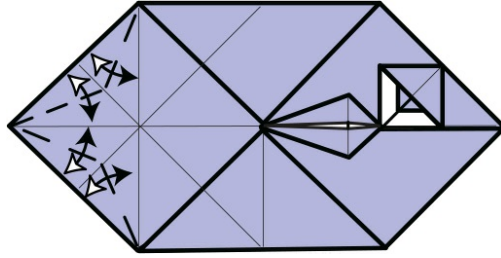
19 Fold the right corner to the left, flattening the sides to the center.



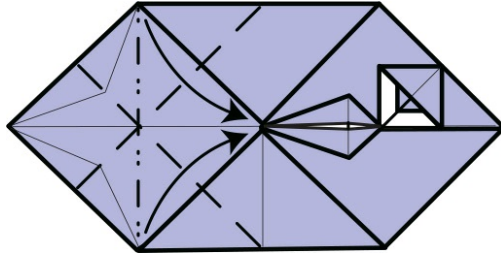
20 Repeat steps 14–19 on the underside. Fold the corner to the center, crease and unfold.



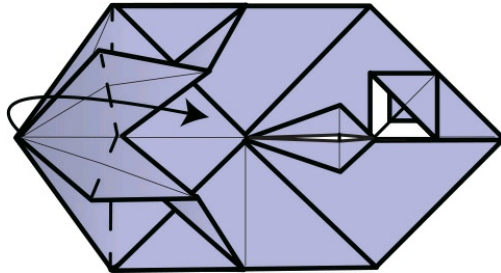
21 Fold corners to the center, crease and unfold.



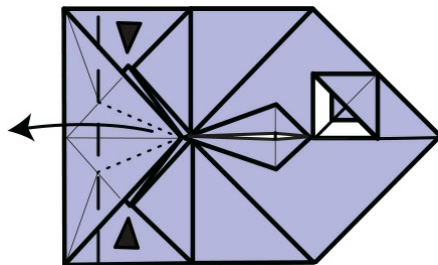
22 Make four small precreases, through all layers.



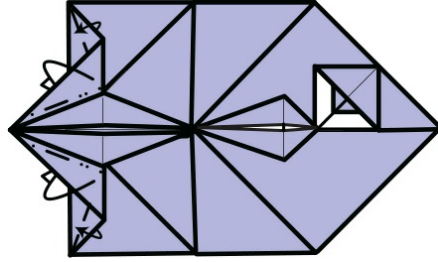
23 Fold on the upper layer only, forming the paper into 3D.



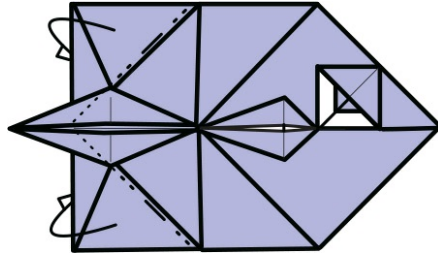
24 The move in progress.



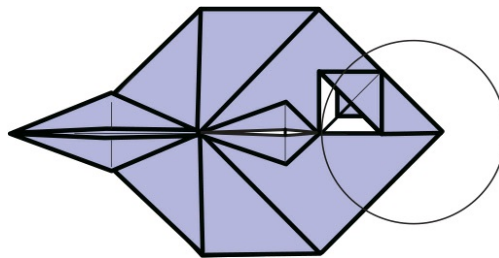
25 Fold a corner to the left, flattening edges together on the horizontal axis.



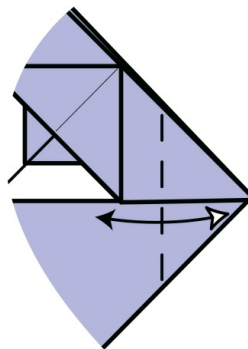
26 Fold paper behind, pressing the paper flat.



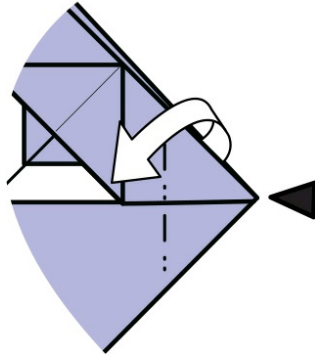
27 Fold two corners behind to meet the center.



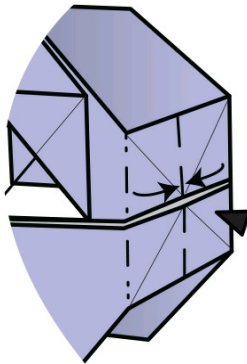
28 Now focus on the circled area.



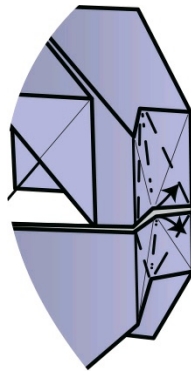
29 Crease and unfold.



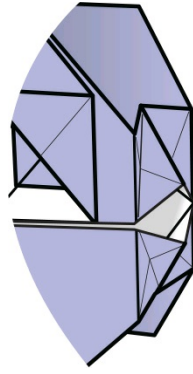
30 Open the sides and flatten the corner.



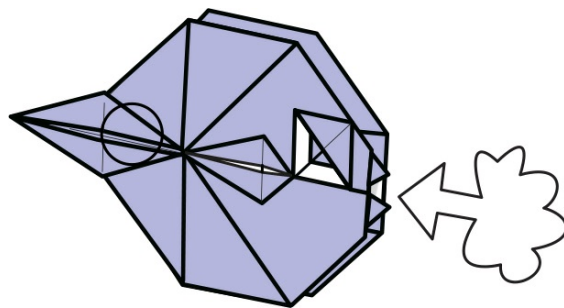
31 Flatten the model with a vertical valley crease.



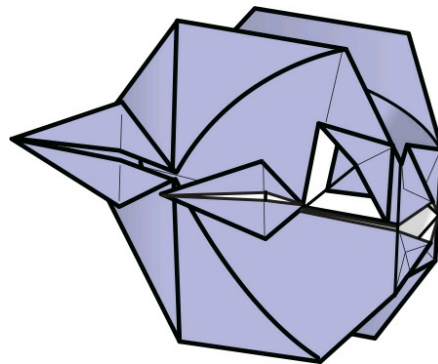
32 Open out two corners to form lips.



33 The result.



34 Hold by the circled point and blow sharply inside, inflating the model.





Nick Robinson has been a author and professional paper artist for over 30 years. His website is origami.me.uk. His music site is looping.me.uk. He writes, “This book is dedicated to my amazing mother, who passed away during its creation. Thanks to: Marcello Bertinetti, Federica Romagnoli, and Clara Zanotti, for making this book possible. The British Origami Society for support, enthusiasm and friendship over many years. The top Indian Origami Artist Himanshu Agrawal for proofreading the diagrams. Rob Snyder for ideas and support. The creators for kindly letting me share their work: Swimming Fish — Ng Boon Choon; Angel Fish, Clownfish — John Montroll; Pureland Fish — Marc Kirschenbaum; Telescope Fish, Goldfish — Rob Snyder; Banded Angelfish — Robert Lang; Fish Bones, Puffer Fish — Sébastien Limet; Bubblefish — Simon Anderson; 3D Fish — Stephen Palmer; Multiform Fish — Vivienne Berti. With any origami design, there is a chance that similar designs have been independently created by others, but models have been credited to the best of my knowledge. All my love to my family — Ali, Daisy, Nick junior plus moggies Pickle and Rhubarb.”

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