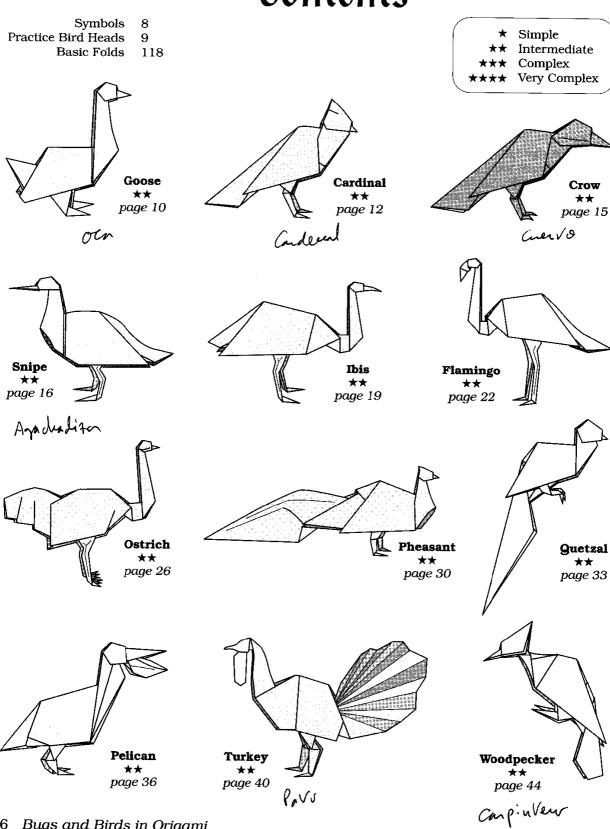
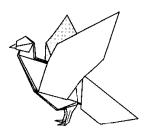


Contents



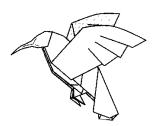


Goose with Wings Outstretched ** page 47

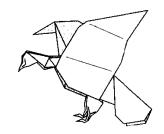


Pigeon

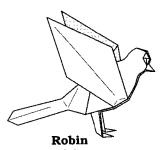
**
page 50
Palour



Hummingbird ★★ page 53



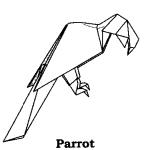
Vulture ★★ page 54



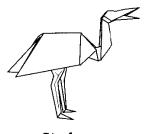
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★★ page 63



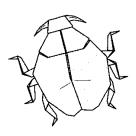
Stork ★★ page 67



Scavenger Beetle

page 72

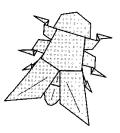
Escarlajr en Ventallerr



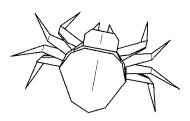
Ladybug

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Maniquiva

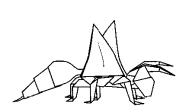


Fly **** page 79 luos



Spider

page 85



Wasp
★★★★
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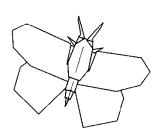
Long-Horned Beetle

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Es and Longwand



Earwig

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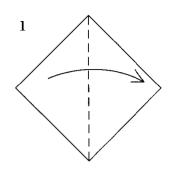
Butterfly

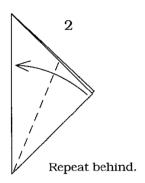
page 110

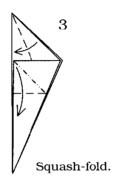
Man'poin.

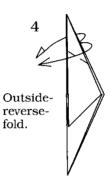
Practice Bird Heads

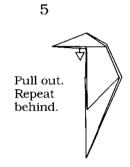
Many of the origami birds in this collection use a certain technique to form the heads. The details of this technique are shown here, and you may want to practice folding the head before working on the birds themselves.





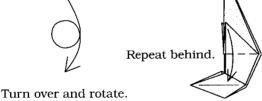


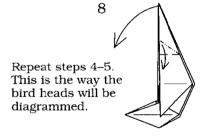


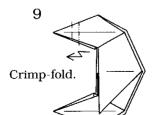


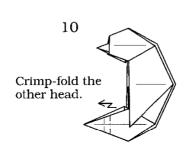


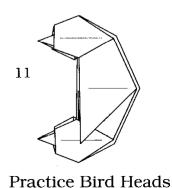






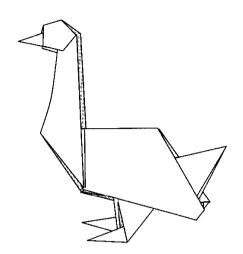


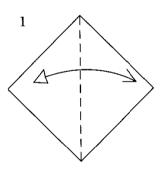




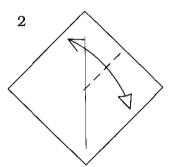
Goose

Geese are large wild or domestic waterfowl with long necks. They gather in large flocks feeding on grasses, seeds, and aquatic plants in grassy marshes and grain fields. Geese can be quite noisy, and they build nests on the ground from piles of grasses, roots, and sticks.

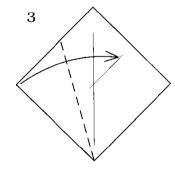




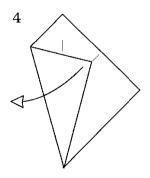
Fold and unfold.



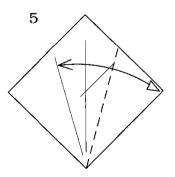
Fold and unfold in the top half.



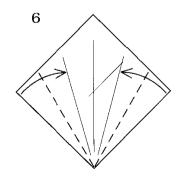
Fold the corner to the line.

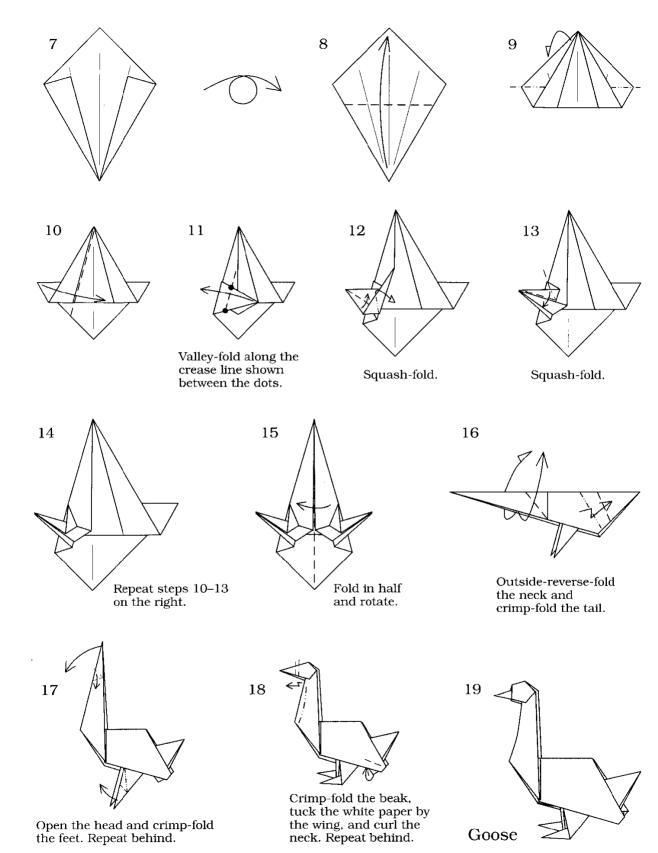


Unfold.

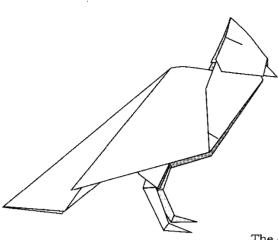


Fold to the crease and unfold.

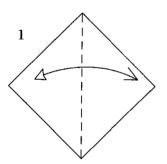




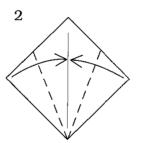
Cardinal



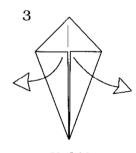
The cardinal, with its distinguishing crest, is an aggressive and territorial bird. It lives in woodlands, thickets, parks, and gardens. The male cardinal is bright red and the female is brown with a little red on the wings, crest, and bill. With its strong bill, the cardinal can eat hard seeds, along with berries.



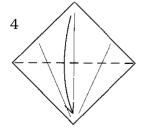
Fold and unfold.



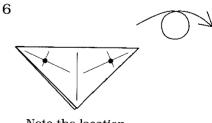
Kite-fold.



Unfold.

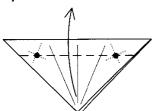


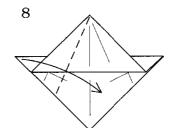
Fold and unfold only one layer on each side.

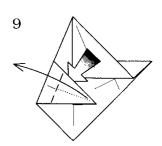


Note the location of the dots.

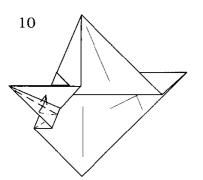




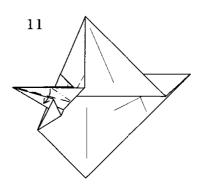




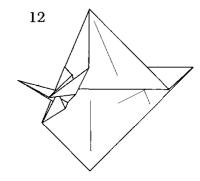
Fold along the crease line while squash folding along the x-ray line.



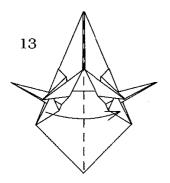
Thin the leg at an angle of one-third for this squash fold,



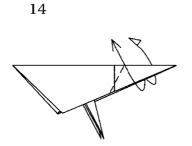
Make two squash folds, one on the other.



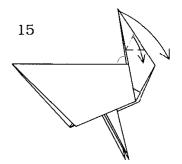
Repeat steps 8–11 on the right.



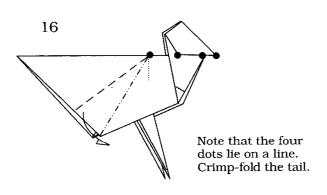
Fold in half and rotate.

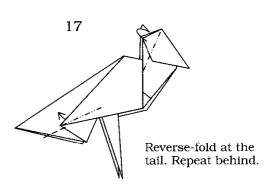


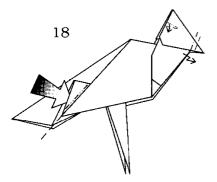
Outside-reverse-fold.



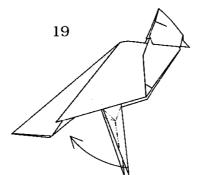
Note that the angle by the neck is less than 90° . Open the head.



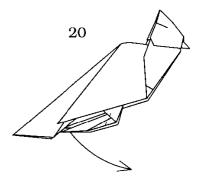




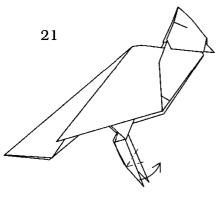
Reverse-fold at the tail, crimp-fold the beak, and make a small crimp at the tuft. Repeat behind.



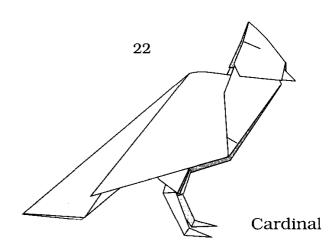
Double-rabbit-ear. Repeat behind.



Reverse-fold. Repeat behind.



Crimp-fold. Repeat behind.

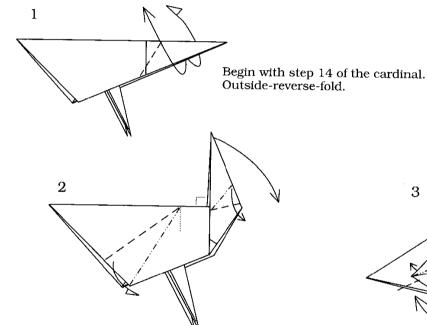


14 Bugs and Birds in Origami

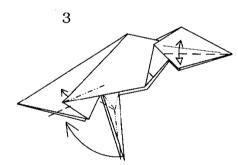
Crow

Crows are noisy, tough, intelligent birds that can be found nearly worldwide in open country, farmland, woodland, and parks. They feed on insects, frogs, small mammals, fruits, grains, and nuts.

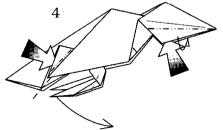
Crow 6



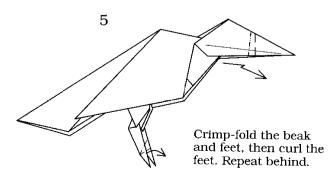
Note that the angle by the neck is 90°. Open the head and crimp-fold the tail. Repeat behind.



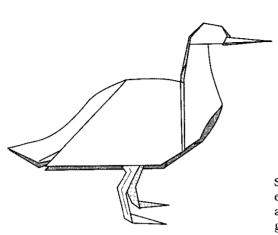
Fold at an angle of one-third at the head and unfold. Reverse-fold at the tail, double-rabbit-ear the legs. Repeat behind.



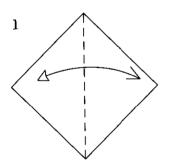
Reverse-fold at the head, tail, and legs. Repeat behind.



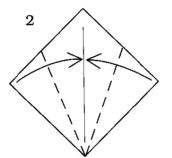
Snipe



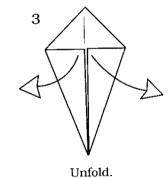
Snipes are shorebirds that breed on all continents except Australia. They have long, slender bills which are used to probe for worms and grubs in swampy grasslands. They are also known as "woobidah" birds because of the noise made during flight as air rushes around their tail feathers.

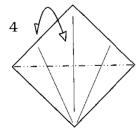


Fold and unfold.

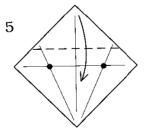


Kite-fold.

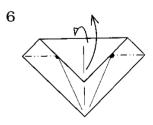


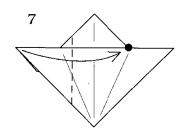


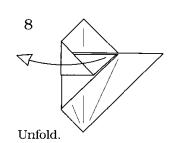
Fold behind and unfold.

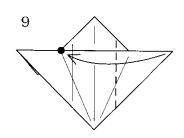


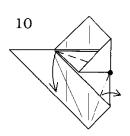
Fold so the edge meets the dots.



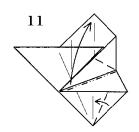




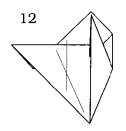




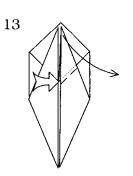
Pivot on the dot.



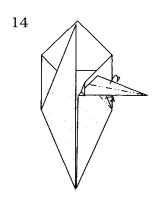
Squash-fold.



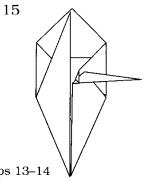
Repeat steps 9–11 on the left.

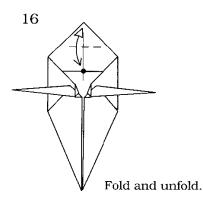


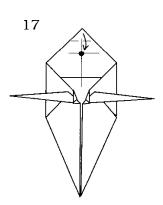
Fold parallel to the dotted line. Squash-fold to form a small triangle.

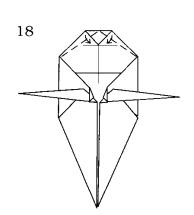


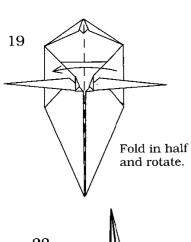
Repeat steps 13–14 on the left.

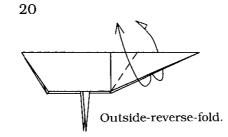


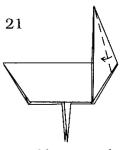




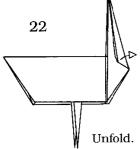


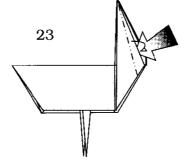


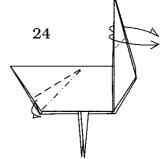




Fold at an angle of one-third.

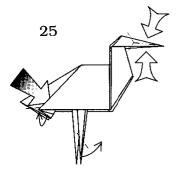




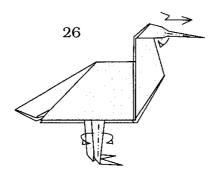


Place your finger into the upper white layer and reverse-fold into it. The layers are not symmetrical.

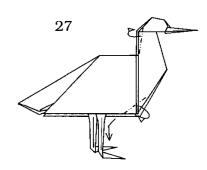
Outside-reverse-fold the head and crimp-fold the tail.



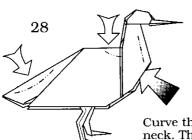
Reverse-fold at the tail, reverse-fold the feet, and begin to double-rabbit-ear the beak. Repeat behind.



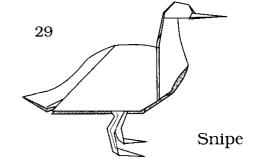
Fold the base of the beak inside and flatten the beak. Thin the leg. Repeat behind.



Bend the leg. Repeat behind.

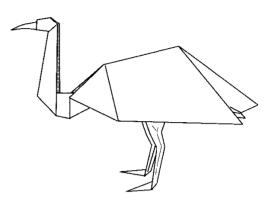


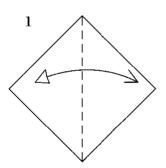
Curve the tail, body, and neck. The snipe should be able to stand easily.



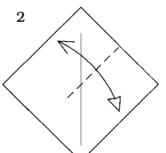
lbis

Ibises are long-legged birds that spend much of their time around marshes and swamps. With their long curved bills, they can catch frogs, snakes, insects, and other small animals. Though usually quiet birds, they can make harsh croaking sounds if provoked. These social birds nest and fly in groups. The ibis was considered to be sacred to the ancient Egyptians.

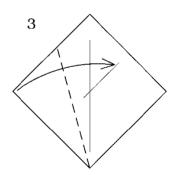




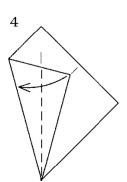
Fold and unfold.

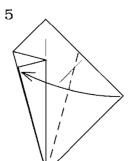


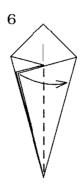
Fold and unfold.

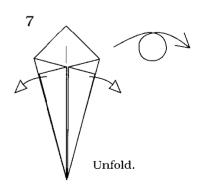


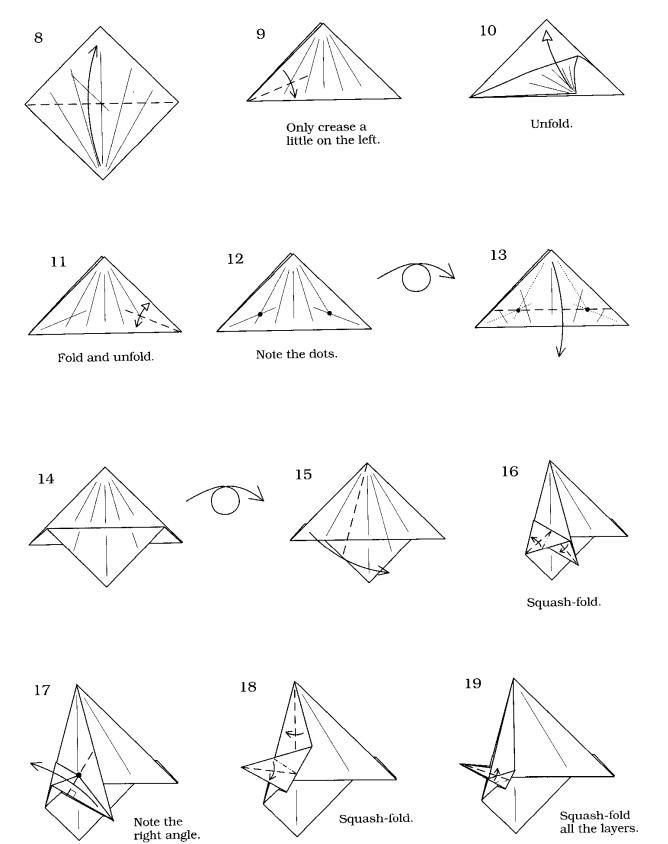
Fold the corner to the line.

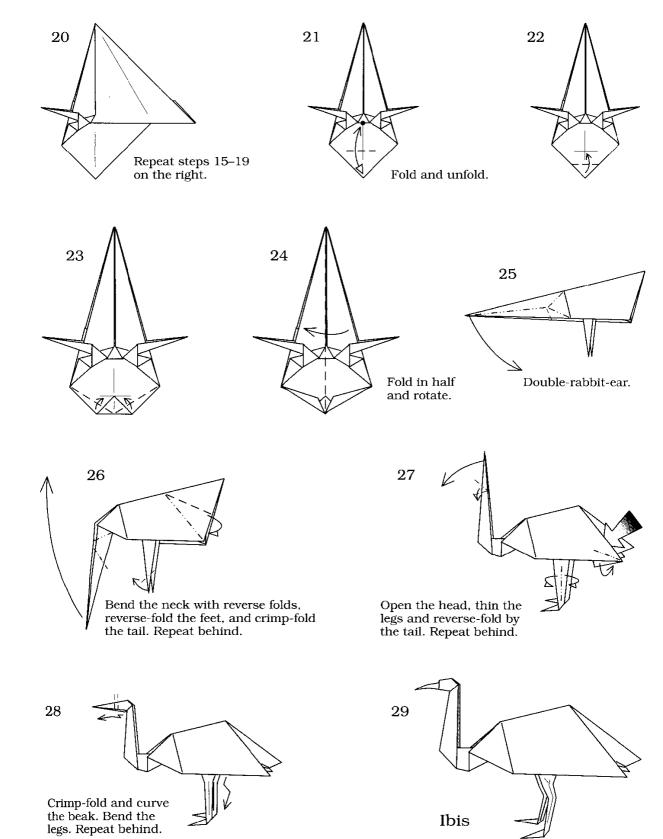






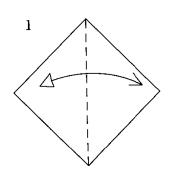




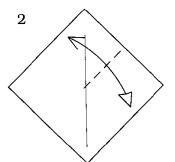


Flamingo

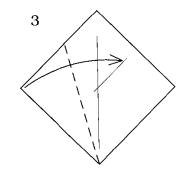
Flamingos are tall birds with long slender legs and necks, and large curved beaks. Living by lakes and lagoons, they stand in shallow water dipping their bills into the water to catch fish, mollusks, crustaceans, insects, and plants. These pink birds often fly at sunrise and sunset, and are also good swimmers.



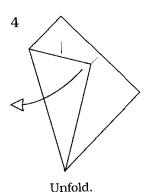
Fold and unfold.

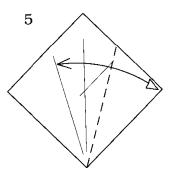


Fold and unfold in the top half.

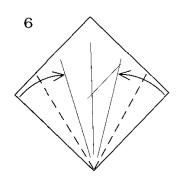


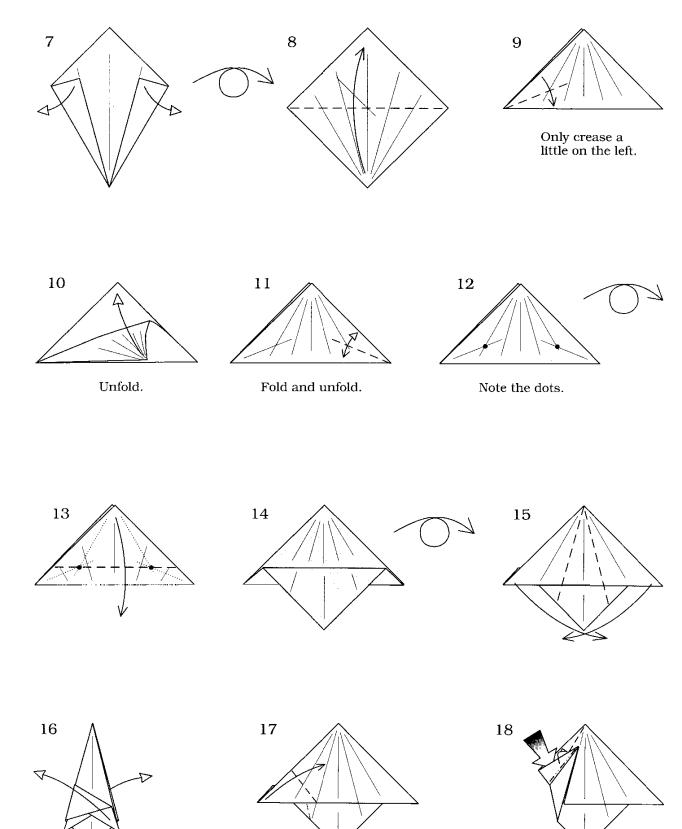
Fold the corner to the line.





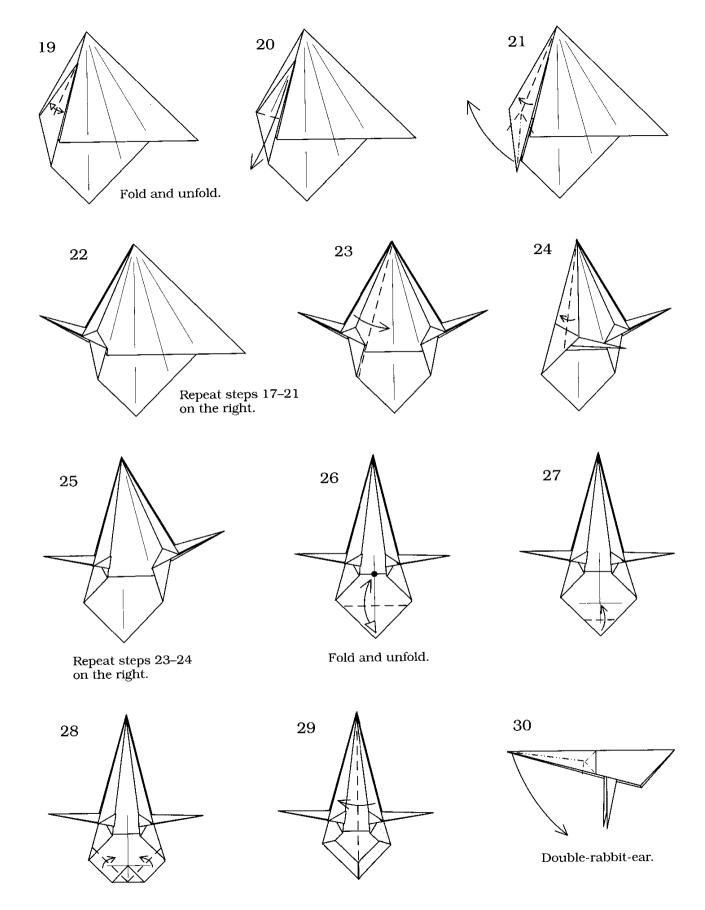
Fold to the crease and unfold.



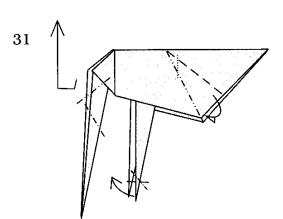


Squash-fold.

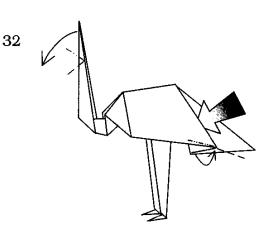
Unfold.



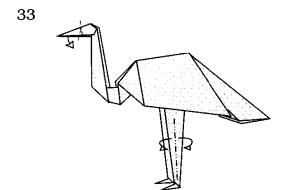
24 Bugs and Birds in Origami



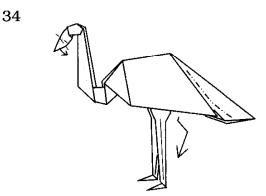
Bend the neck with reverse folds, reverse-fold the feet, and crimp-fold the tail. Repeat behind.



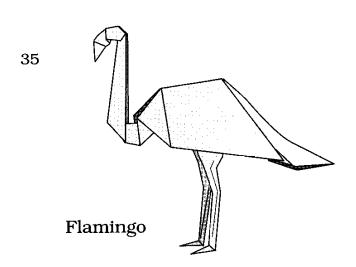
Open the head and reverse-fold by the tail. Repeat behind.



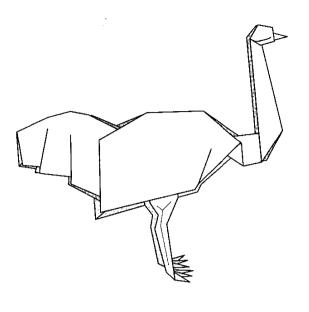
Pull out to form the beak. Thin the legs. Repeat behind.



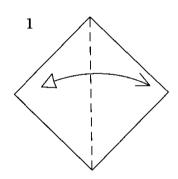
Crimp-fold the beak, curve the tail, and bend the legs. Repeat behind.



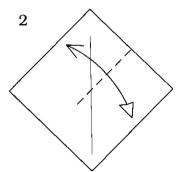
Ostrich



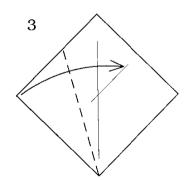
At 8 feet tall and weighing over 300 pounds, the ostrich is the largest bird in the world. Though unable to fly, it can run faster than any two-legged creature. Found in the grasslands of Africa, ostriches wander in small groups in search of food. They feed on plants, berries, seeds, fruits, insects, and small reptiles.



Fold and unfold.

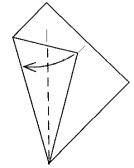


Fold and unfold.

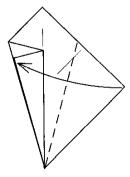


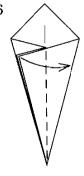
Fold the corner to the line.

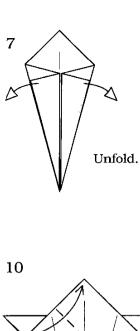


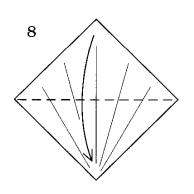


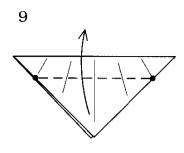
5

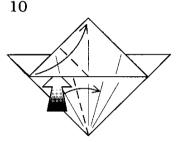




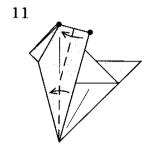


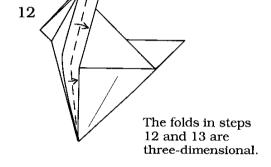


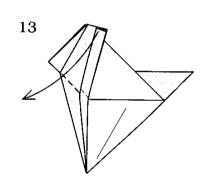


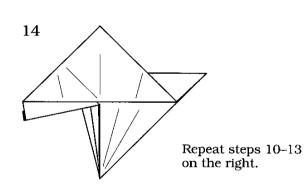


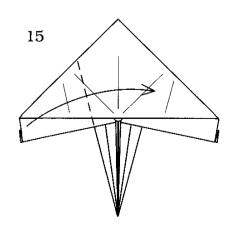
Squash-fold.

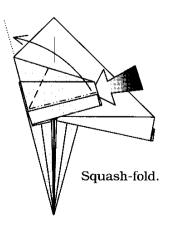


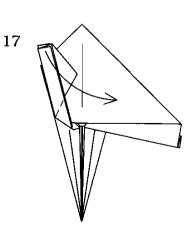


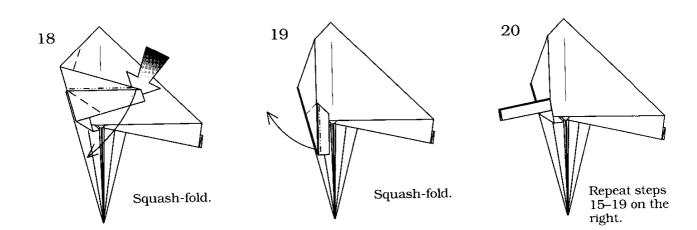


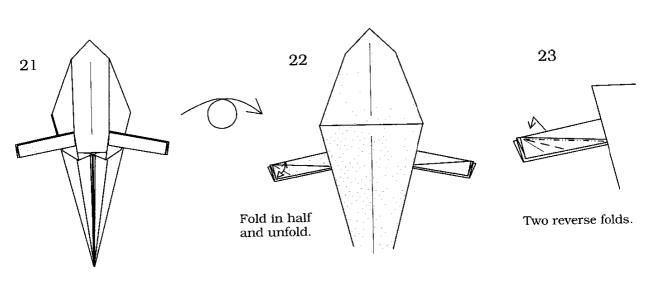


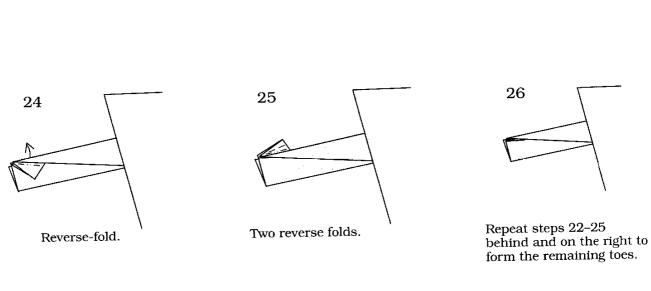


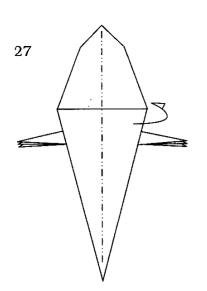


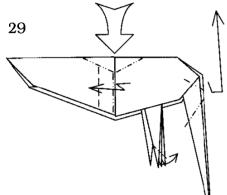




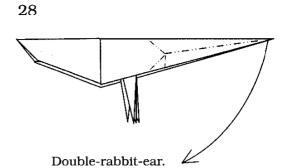


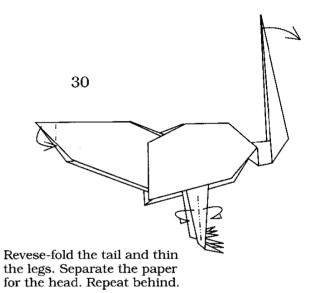


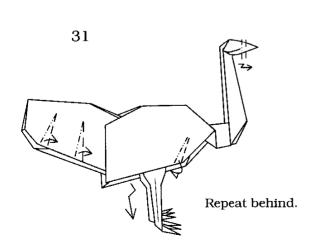


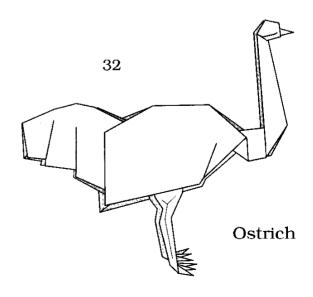


Push in the top by the tail and then crimp fold. Bend the neck with reverse-folds. Reverse-fold the six toes. Repeat behind.

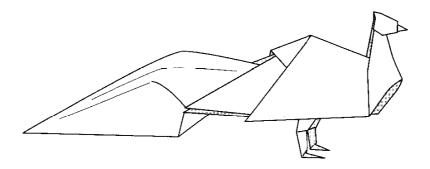




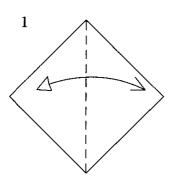




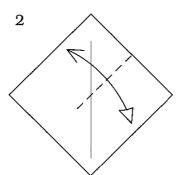
Pheasant



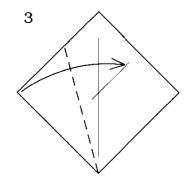
Pheasants are long-tailed bird of open woodlands and fields, where they feed in small flocks. They were originally found between China and Malaysia, but have since been naturalized elsewhere, including Europe and the United States. Many pheasants are prized as ornamental birds in zoos and private collections.



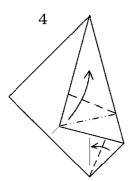
Fold and unfold.



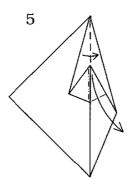
Fold and unfold.



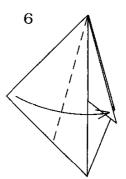
Fold the corner to the line. Rotate.



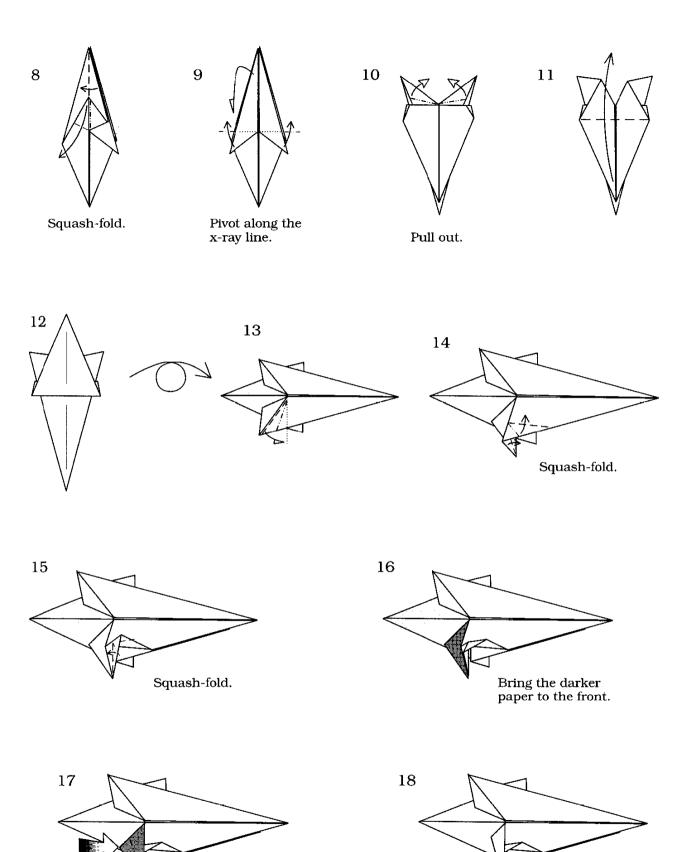
Squash-fold.



Squash-fold.

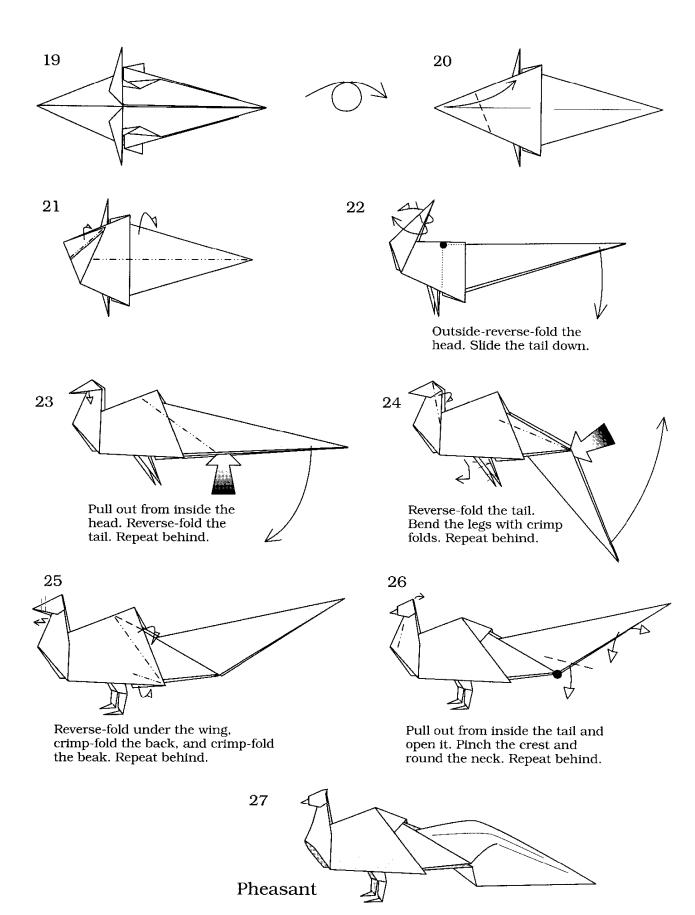


Squash-fold.



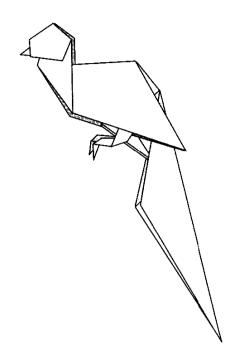
Reverse-fold.

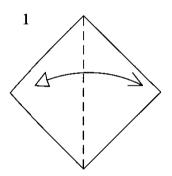
Repeat steps 13–17 on the top.

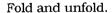


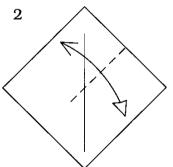
Quetzal

A wondrous bird living in Central and South American rain forests, the Quetzal has long been admired for its beauty. Long blue-green plumes cover the bird's tail, which also shows white in flight. The quetzal has a rounded, hairlike crest and a gold-green breast. Its back is blue, its mantle is curly and gold tinged, and its belly is red. It was sacred to the ancient Mayans, who adorned themselves with its long feathers. Today, it is the national bird of Guatemala, whose currency is also the quetzal.

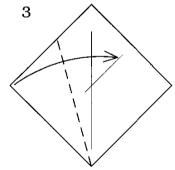




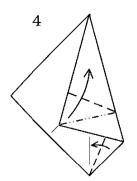




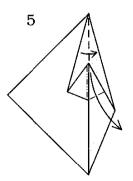
Fold and unfold.



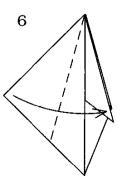
Fold the corner to the line. Rotate.



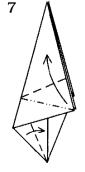
Squash-fold.

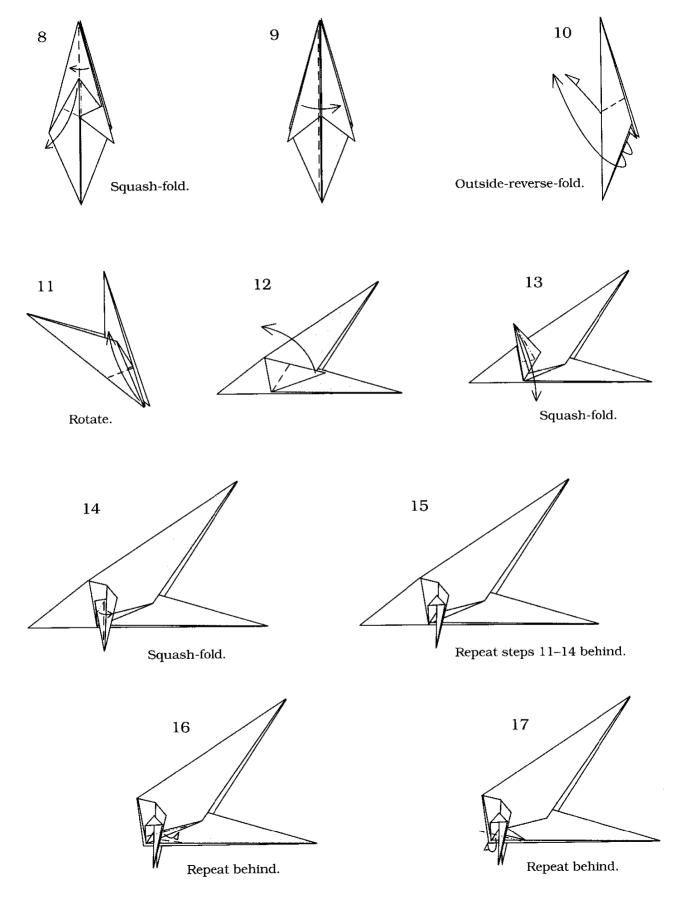


Squash-fold.

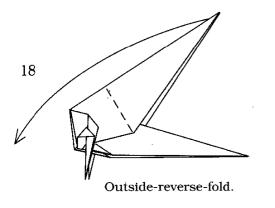


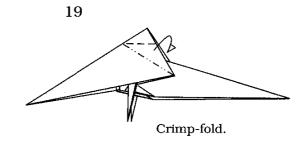
Squash-fold.

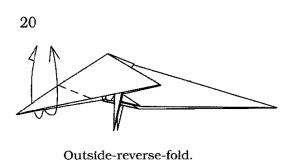


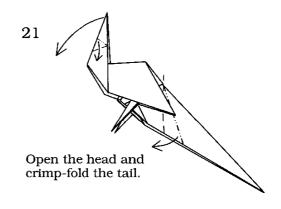


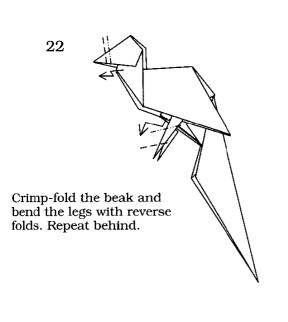
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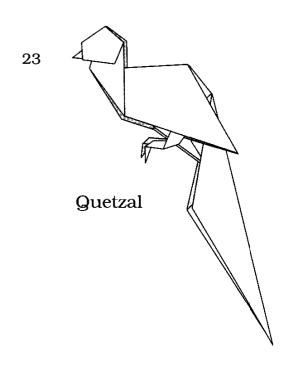




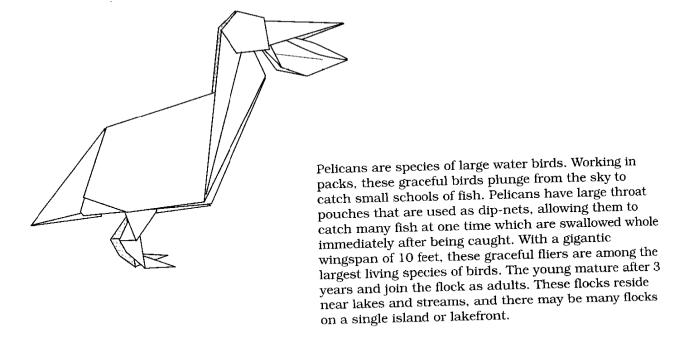


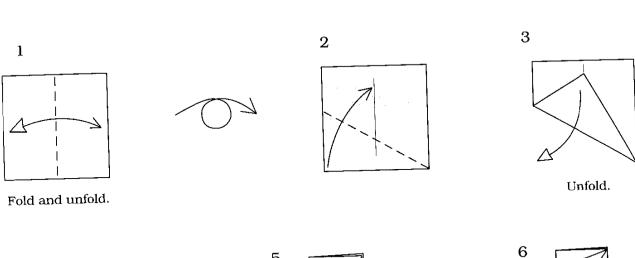


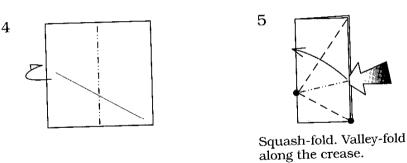


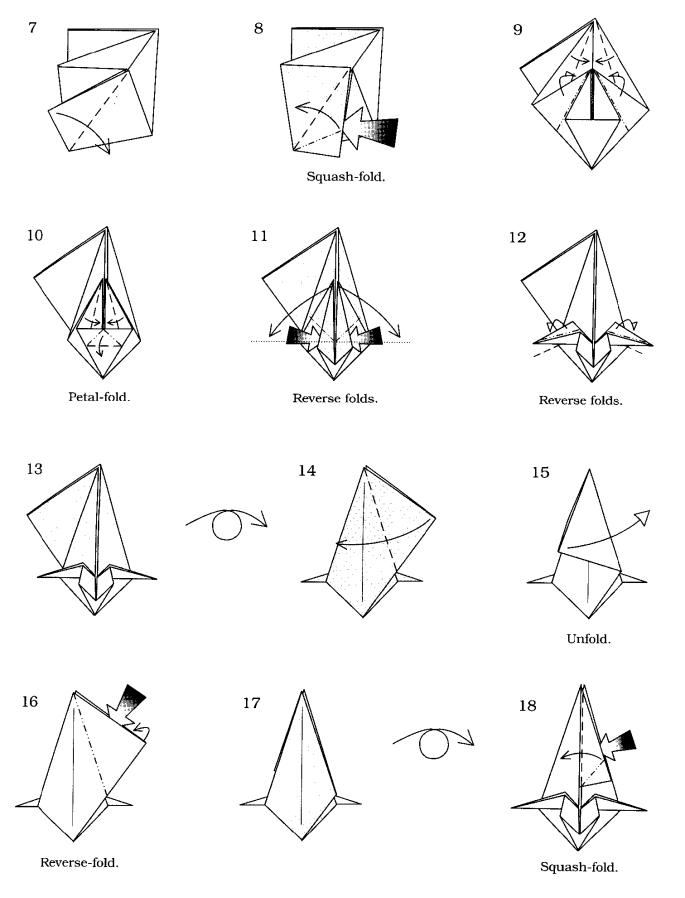


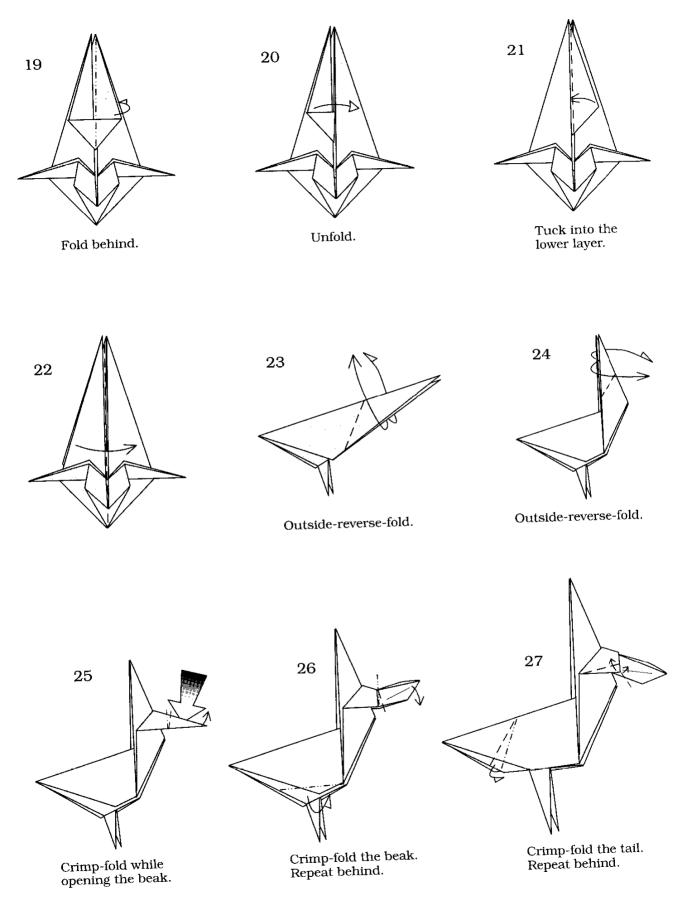
Pelican

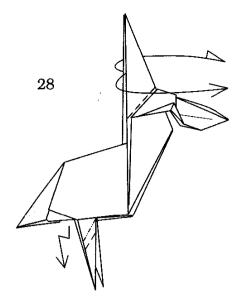




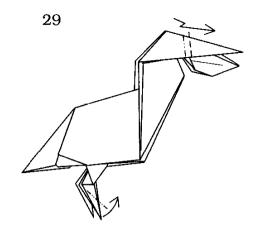




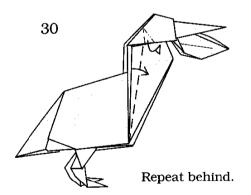


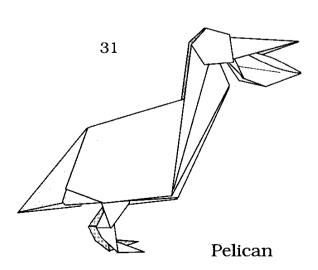


Outside-reverse-fold the head and crimp-fold the legs. Repeat behind.

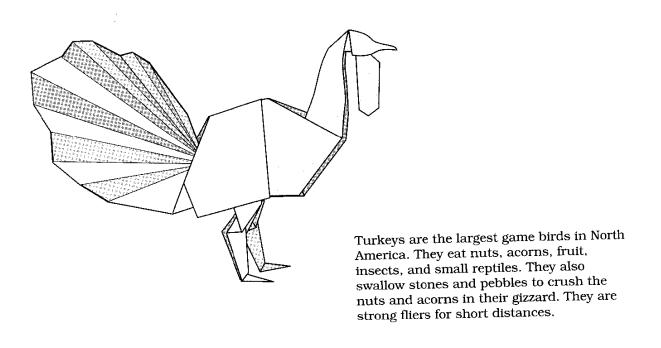


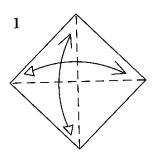
Crimp-fold the beak and reverse-fold the feet. Repeat behind.



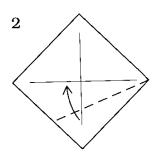


Turkey

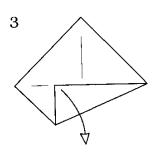




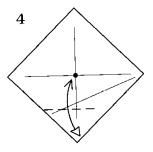
Fold and unfold.



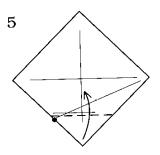
Crease lightly.



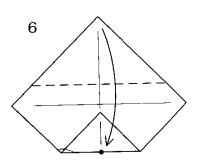
Unfold.

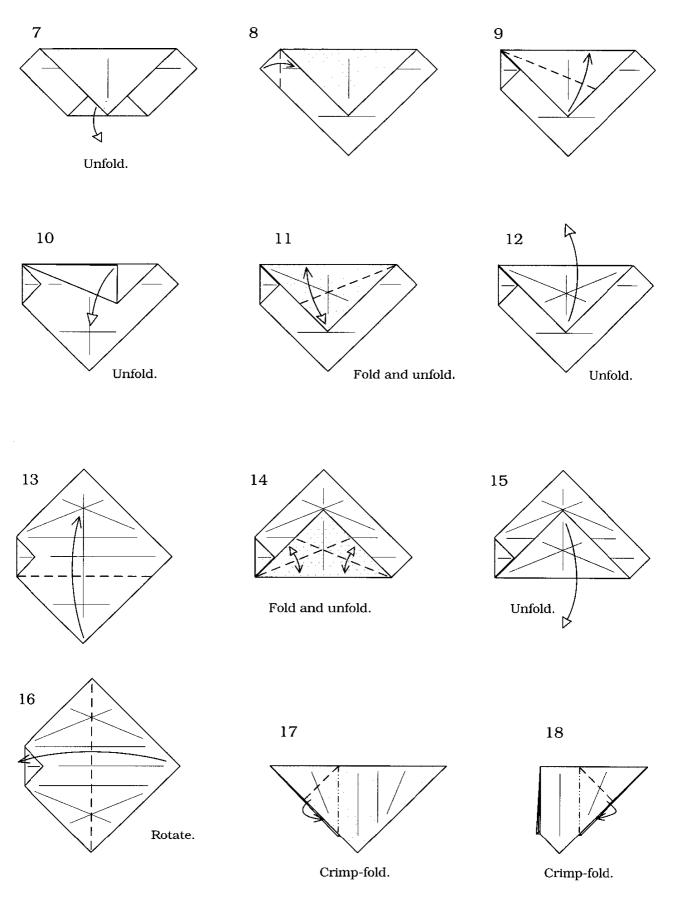


Fold up to the center and unfold. Crease lightly and only on the left side.

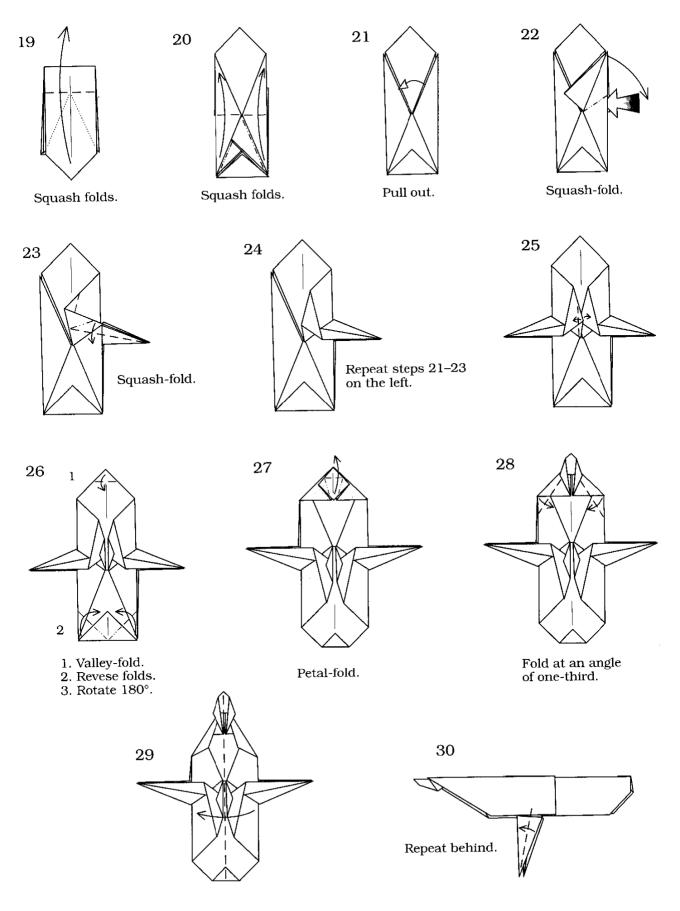


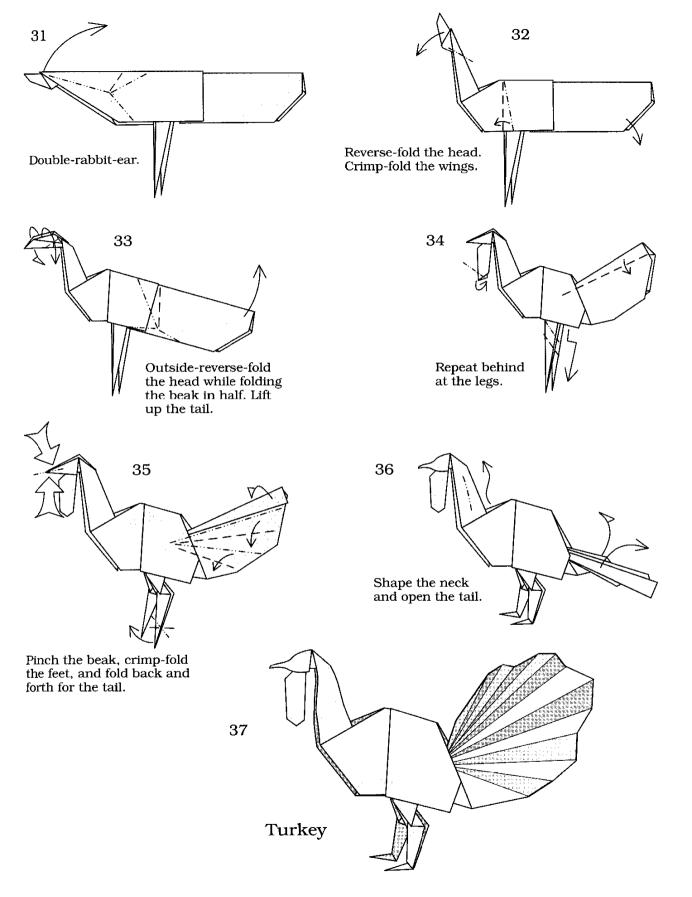
Fold up so the dot meets the line above it.



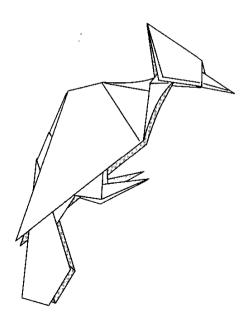


Turkey 41

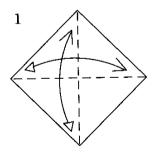




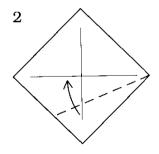
Woodpecker



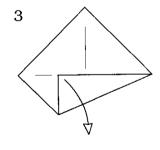
Woodpeckers are adapted for climbing trees and drilling holes in tree trunks with their sharp beaks. They can be heard throughout the year by the rat-a-tat of their drilling. They cling tightly to tree trunks with their sharply clawed feet with toes going both forward and backward. With their long tongues, they can pick insects from the holes they have bored.



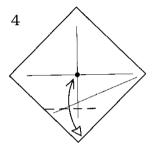
Fold and unfold.



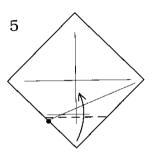
Crease lightly.



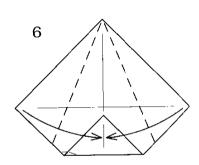
Unfold.

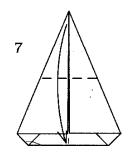


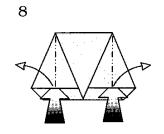
Fold up to the center and unfold. Crease lightly and only on the left side.

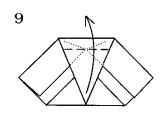


Fold up so the dot meets the line above it.

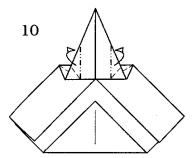


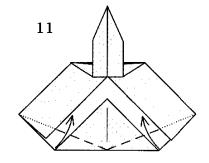


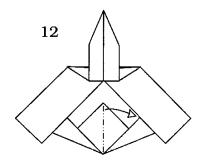




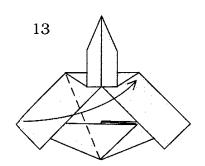
Pull out.

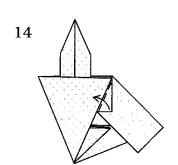


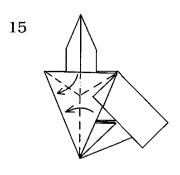




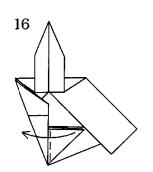
Pull out.

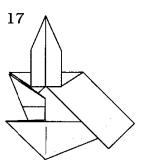


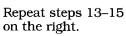


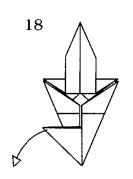


Rabbit-ear.

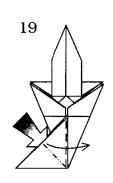




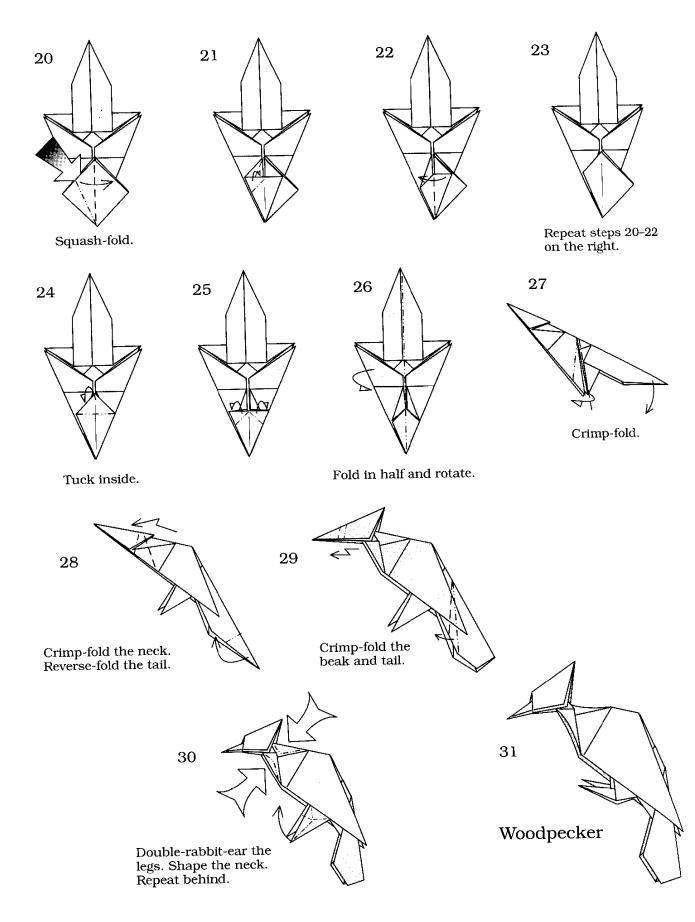




Pull out.

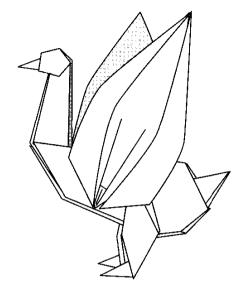


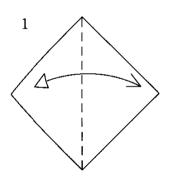
Squash-fold.



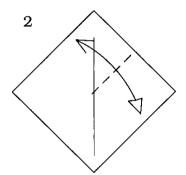
Goose with Wings Outstretched

By putting together a collection of origami birds, I ran into the following dilemma; whether a bird is standing with wings folded, outstretched, in flight, or in any other position, the folding patterns would be quite different. I have chosen to represent most of these birds in one position. For the goose and robin I show two positions, with wings down and with wings outstretched. Though the folding for the geese is quite different, I used some similar structures in obtaining the shape of the body, neck, feet, and tail.

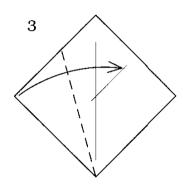




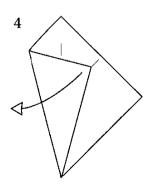
Fold and unfold.



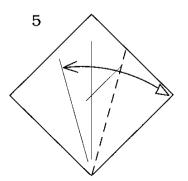
Fold and unfold in the top half.



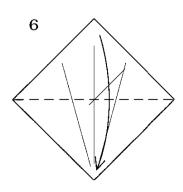
Fold the corner to the line.

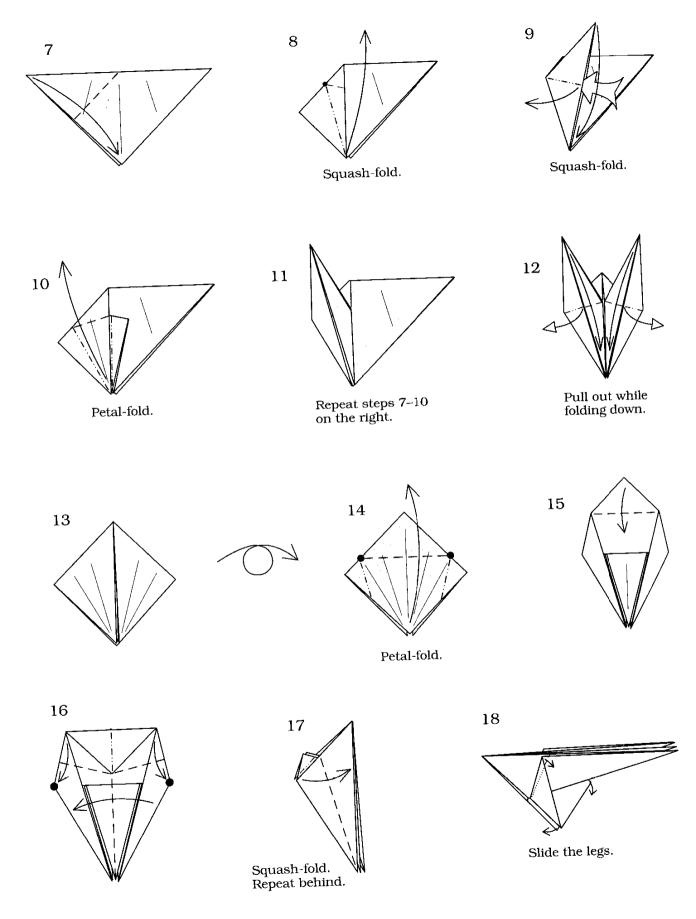


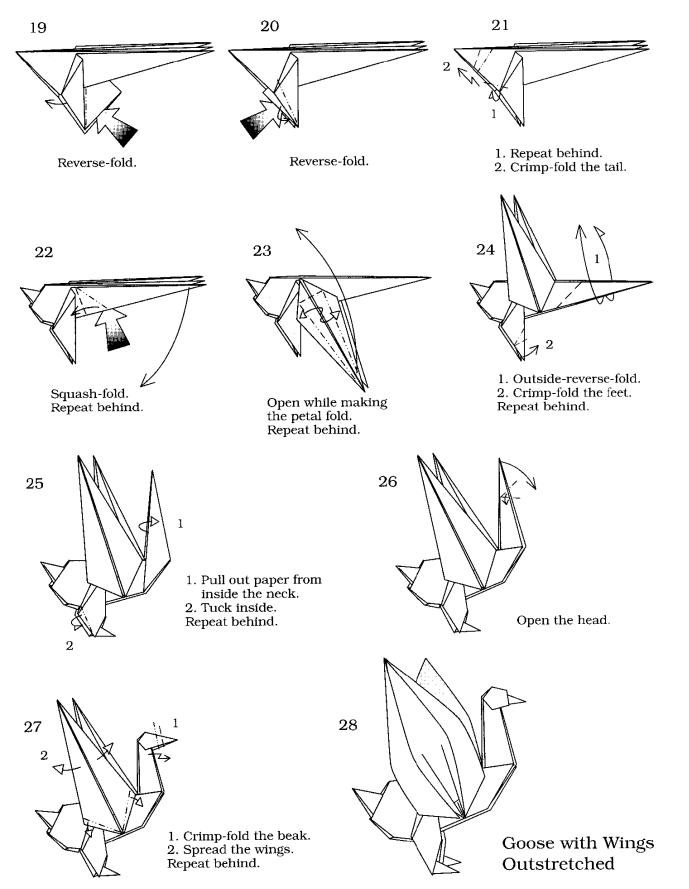
Unfold.



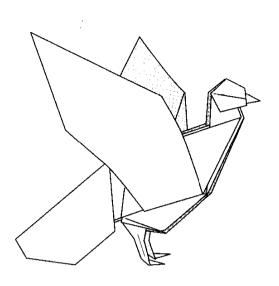
Fold to the crease and unfold.



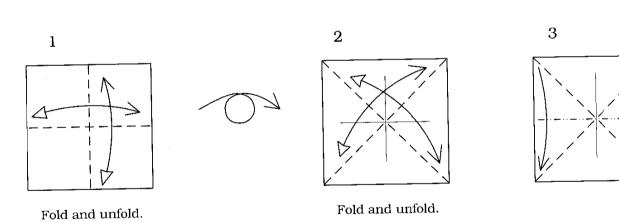


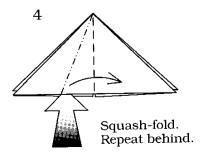


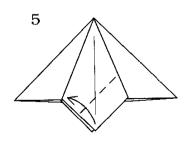
Pigeon

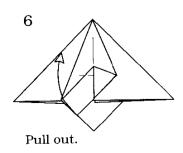


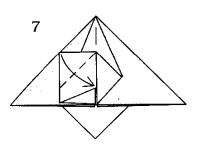
Pigeons are found all over the world. The most beautiful and colorful ones are found in Asia and Australasia. Pigeons spend much time around trees and eat seeds, fruits, and buds. These birds are powerful fliers with excellent homing abilities.

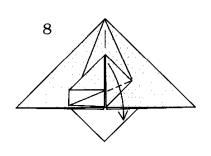


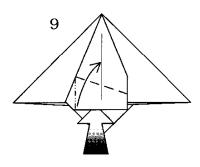




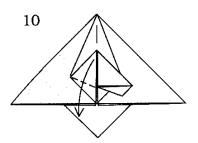


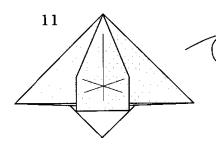


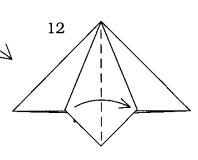


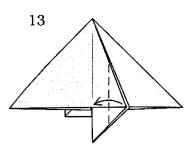


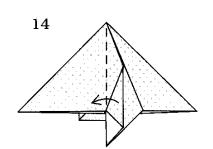
Squash-fold.

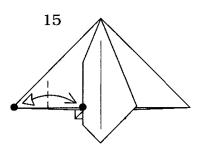




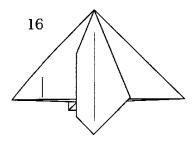


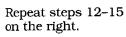


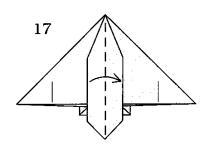


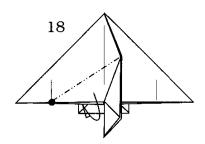


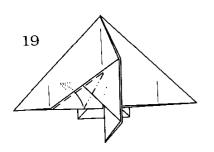
Fold and unfold.



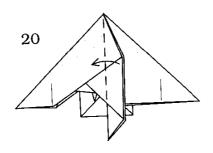






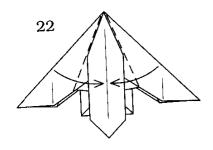


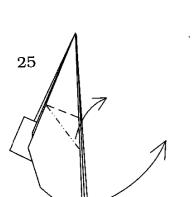
Squash-fold the white layer from inside.



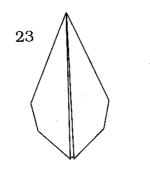
21

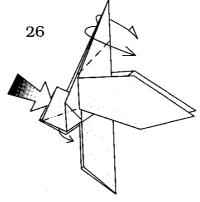
Repeat steps 17–20 on the right.



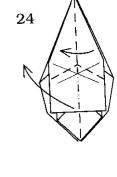


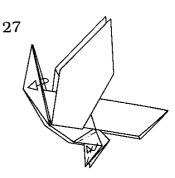
Squash-fold. Repeat behind.



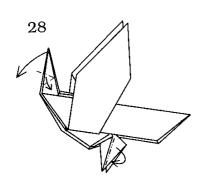


Reverse-fold at the legs. Outside-reverse-fold the neck.

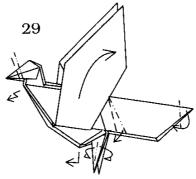




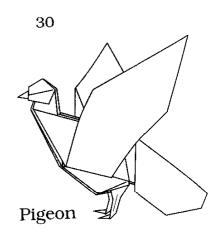
Pull out at the neck. Repeat behind.



Open the head. Reverse-fold the legs.

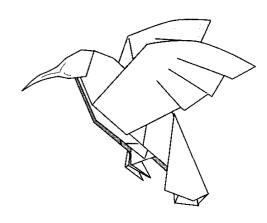


Cimp-fold the beak and tail. Thin the legs and bend at the feet. Curl the wings. Repeat behind.



Hummingbird

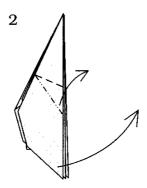
Hummingbirds are small, brightly colored birds. The greatest number of species live in South America. About 12 species are found regularly in the United States and Canada. Most hummingbirds are small. The largest, the Patagona gigas of western South America, is only about 20 centimeters long. The smallest, the Mellisuga helenae of Cuba is slightly more than 5.5 cm. There are about 320 species of these brightly colored birds including the Coquette, Fairy, Hill Star, Wood Star, Sapphire, Topaz, Sun Gem, and Sylph.



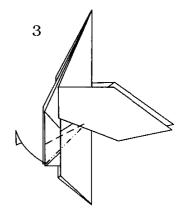
Hummingbird 7



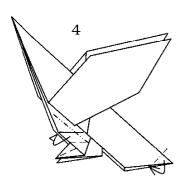
Begin with step 23 of the pigeon.



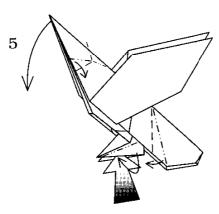
Squash-fold. Repeat behind.



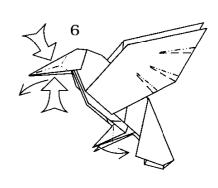
Crimp-fold.



Thin the leg and reverse-fold the tail. Repeat behind.

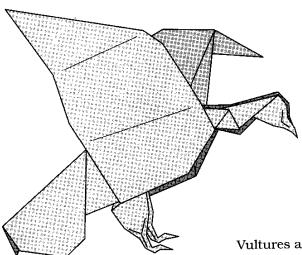


The fold for the head is similar to the crimp fold. Reverse-fold the legs and crimp-fold the tail.

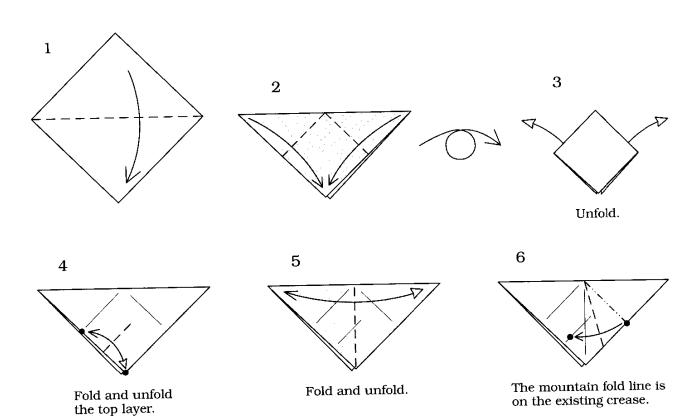


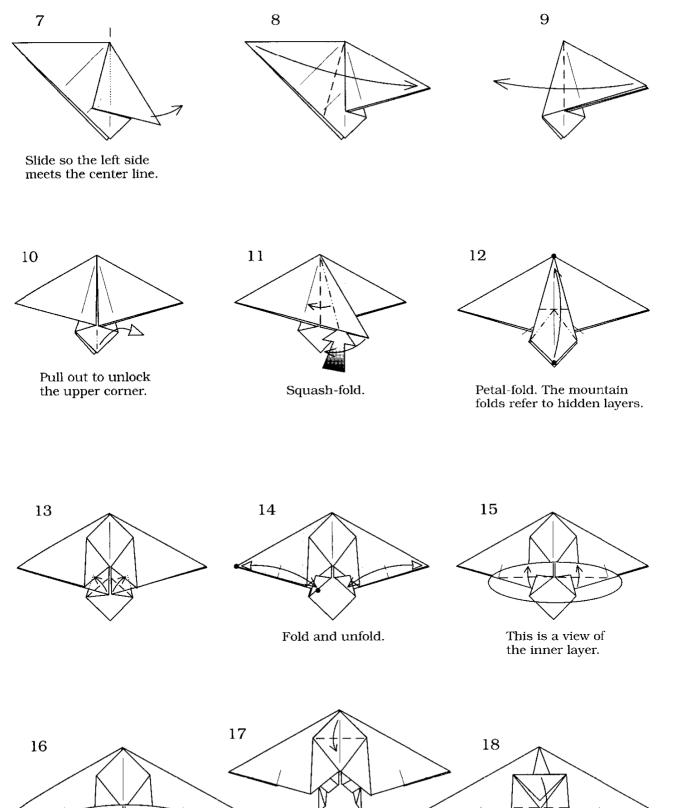
Thin and curl the beak, reverse-fold the feet, pleat along the wings, and spread the tail. Repeat behind.

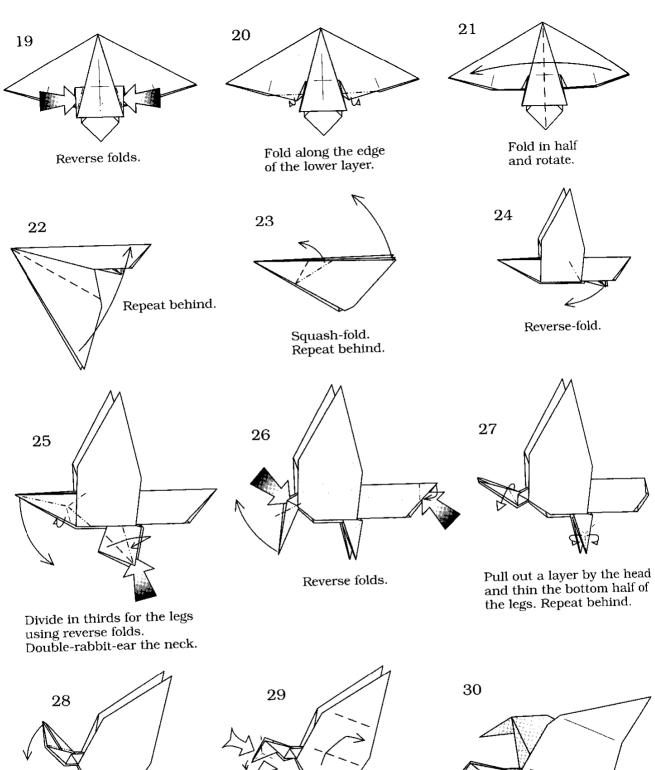
Vulture

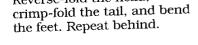


Vultures are large birds that have excellent eyesight and a keen sense of smell. They can be found in temperate and tropical regions and have broad eating habits, consuming carrion and garbage, but rarely live animals. On occasion, however, they catch helpless live prey like lambs and turtles. Vultures often roost and nest in groups on cliffs, in tall trees, or on the ground. They lay one or two eggs and incubate them for seven or eight weeks. Types of vultures include Black, King, Egyptian, Griffon, Turkey, and Palm-Nut.

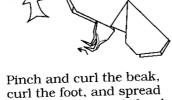




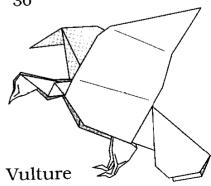




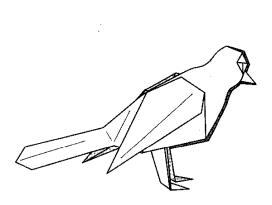
Reverse-fold the head,

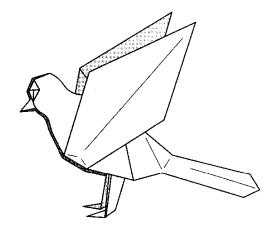


the wings. Repeat behind.

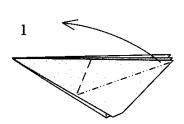


Robin

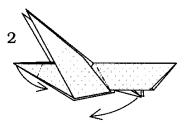




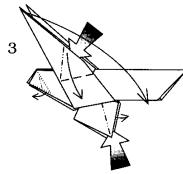
The robin lives in open woodlands, forest edges, gardens, and city parks. Robins can build nests from mud, grass, and twigs. The chicks stay in the nest for about two weeks. After the chicks leave the nest, the male parent feeds them and teaches them to pull worms from the ground. Their appearance is often seen as a sign of Spring.



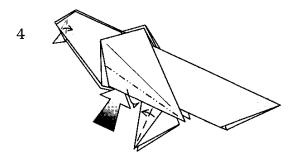
Begin with step 23 of the vulture. Squash-fold. Repeat behind.



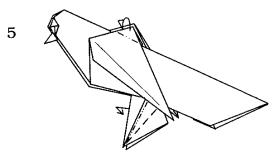
Reverse folds.



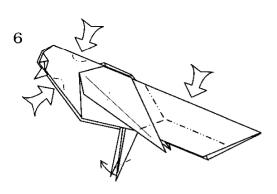
Squash-fold the wings. Reverse-fold the beak. Reverse-fold at an angle of about two-thirds for the legs. Repeat behind.



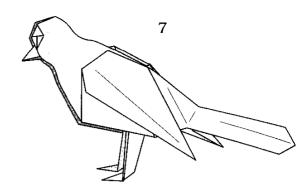
Squash-fold to form the eyes. Reverse-fold the wing. Repeat behind.



Thin the legs with reverse folds. Repeat behind.

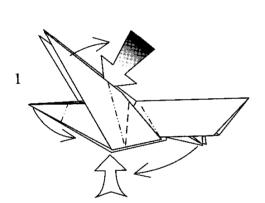


Reverse-fold the feet, form the tail with a three-dimensional doublerabbit-ear, and curve the neck. Repeat behind.

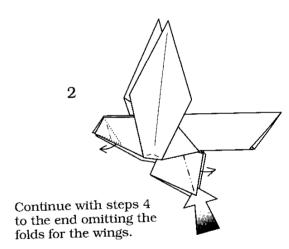


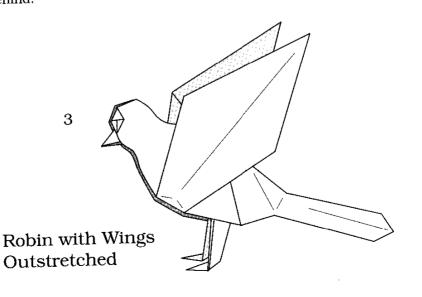
Robin

Robin with Wings Outstretched



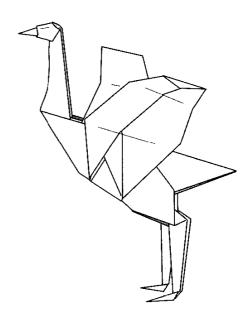
Begin with step 2 from above. Squash-fold the wings. Repeat behind.

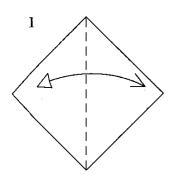


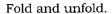


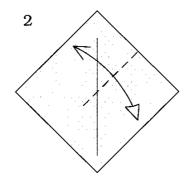
Crane

Cranes are beautiful long-legged and long-necked birds. They often have decorative plumes on their heads. These social birds migrate in large flocks. Some species are rare and are bred in sanctuaries. Cranes have been incorporated into the myths and legends of many cultures, especially those in the Orient.

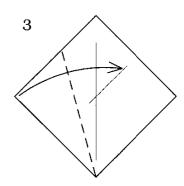




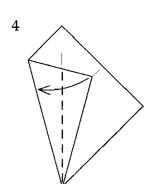




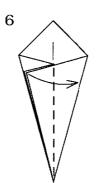
Fold and unfold.



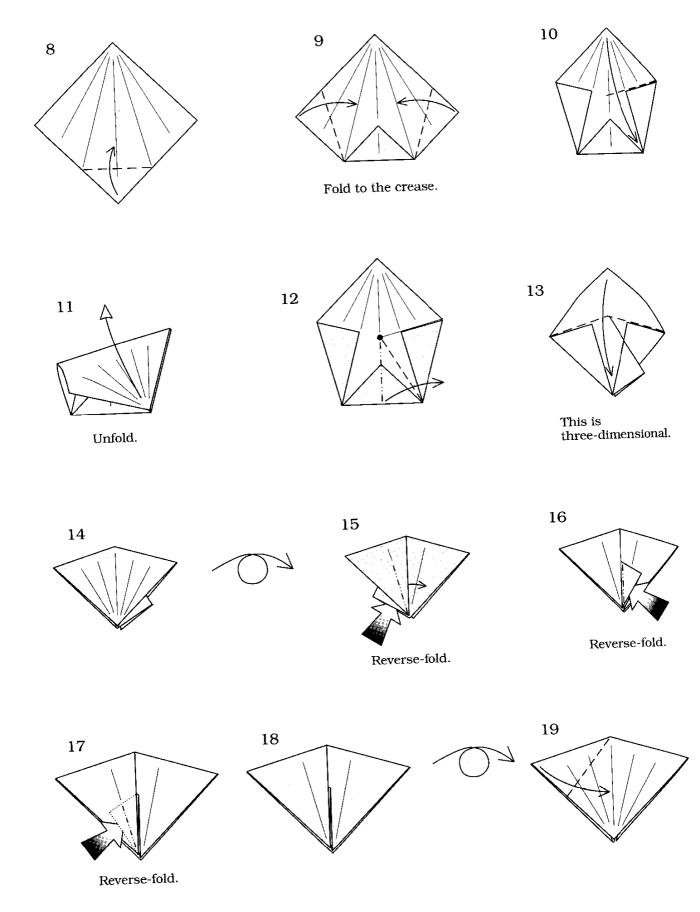
Fold the corner to the line.

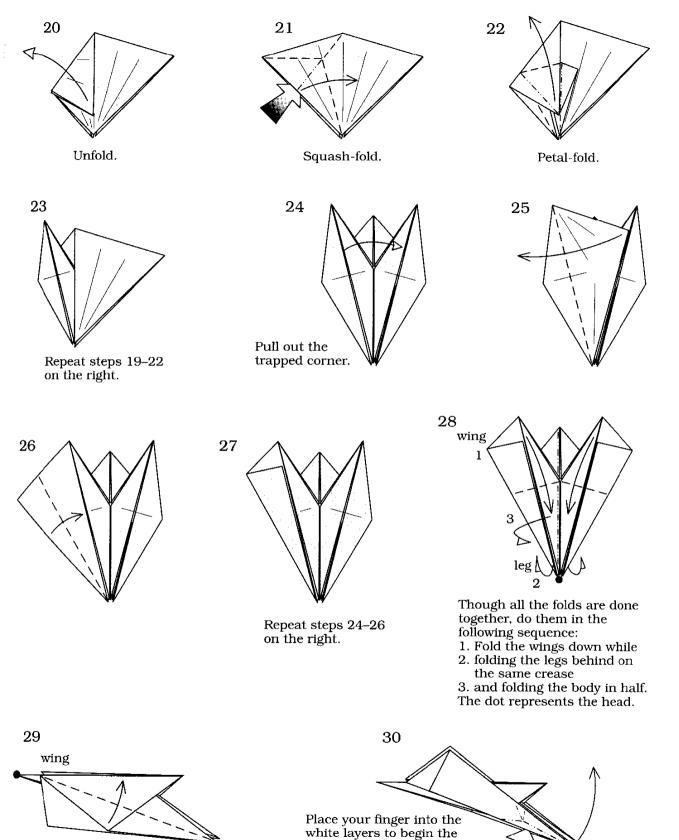


5



Unfold. Turn over and rotate.



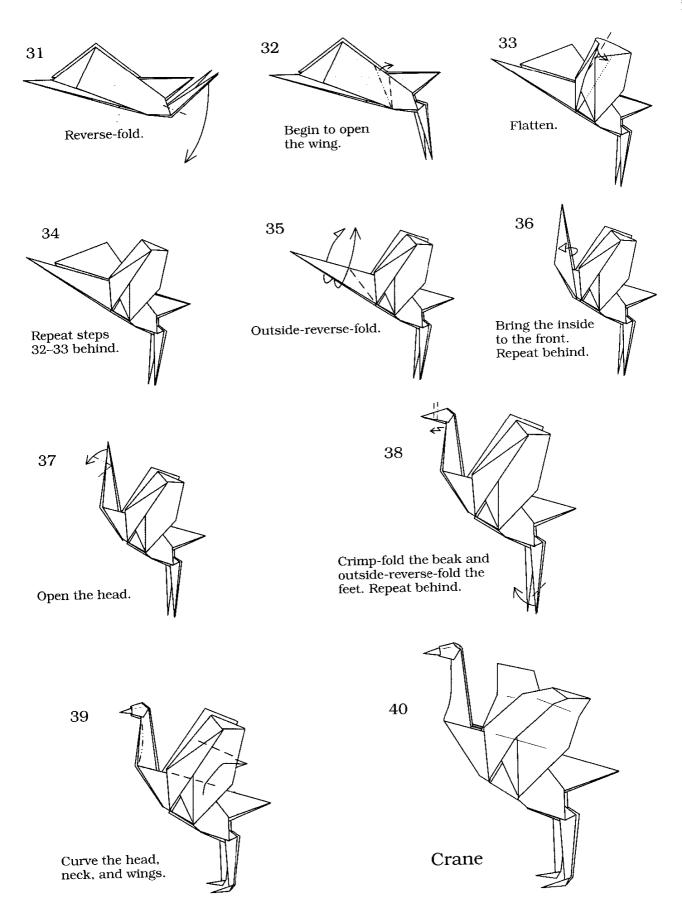


double-rabbit-ear.

Repeat behind.

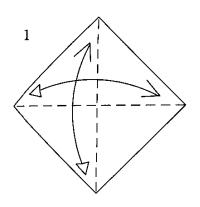
leg

Repeat behind.

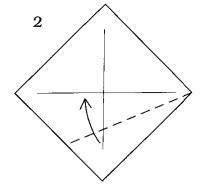


Parrot

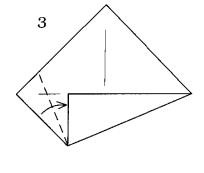
The term "parrot" is a general one that applies to about 300 different species. Parrots are for the most part mild mannered; however some species have been known to attack sheep and damage crops. In general, these elegant creatures live in warm, tropical climates and feed on fruits and seeds, among other treats.

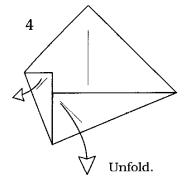


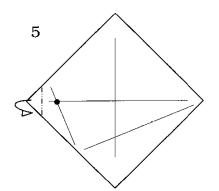
Fold and unfold.

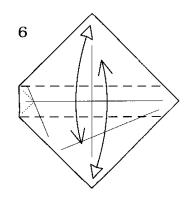


Crease lightly.

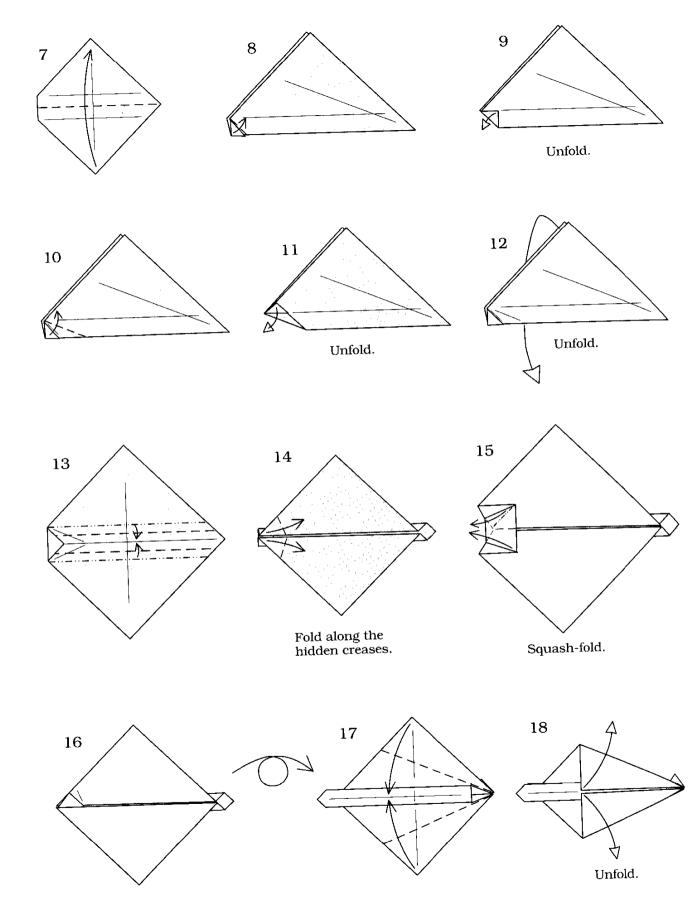




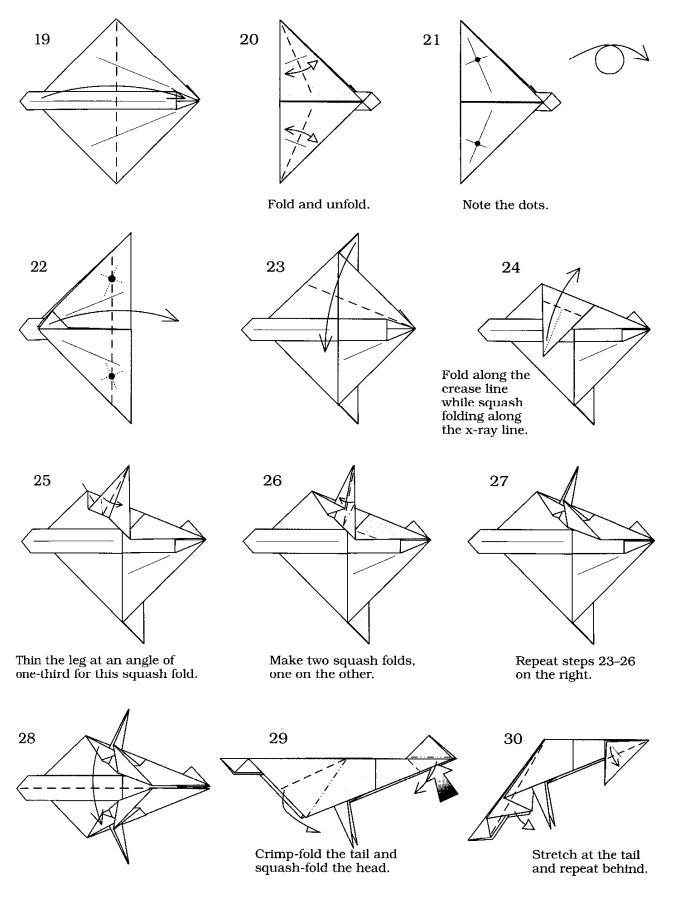


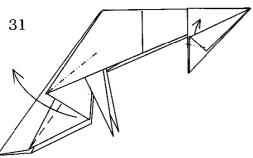


Fold and unfold.

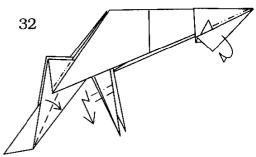


64 Bugs and Birds in Origami

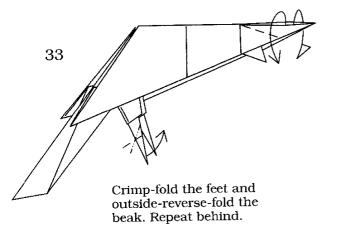


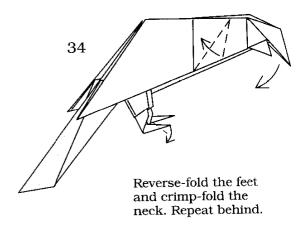


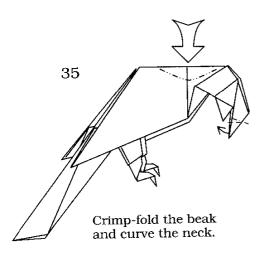
Reverse-fold the beak and at the tail. Repeat behind at the tail.

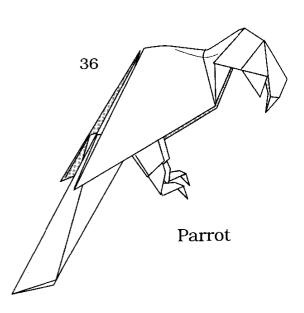


Reverse-fold at the tail, crimp-fold the legs, and fold inside at the head. Repeat behind.

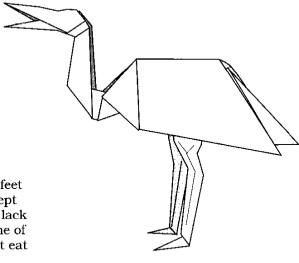






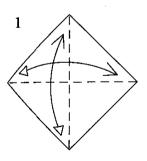


Stork

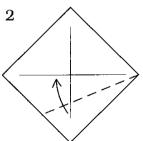


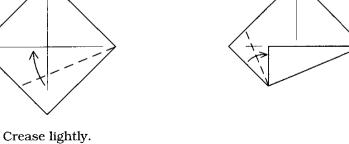
3

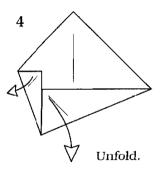
Storks are fairly large birds, between two to five feet in height, which live on all of the continents except Antarctica. Storks are voiceless or nearly so, for lack of a fully developed syrinx (vocal organ), but some of them clatter their bills loudly when excited. Most eat small fish caught in shallow water.

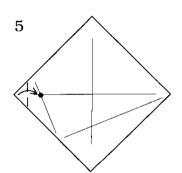


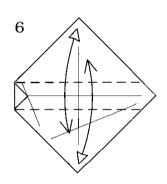
Fold and unfold.



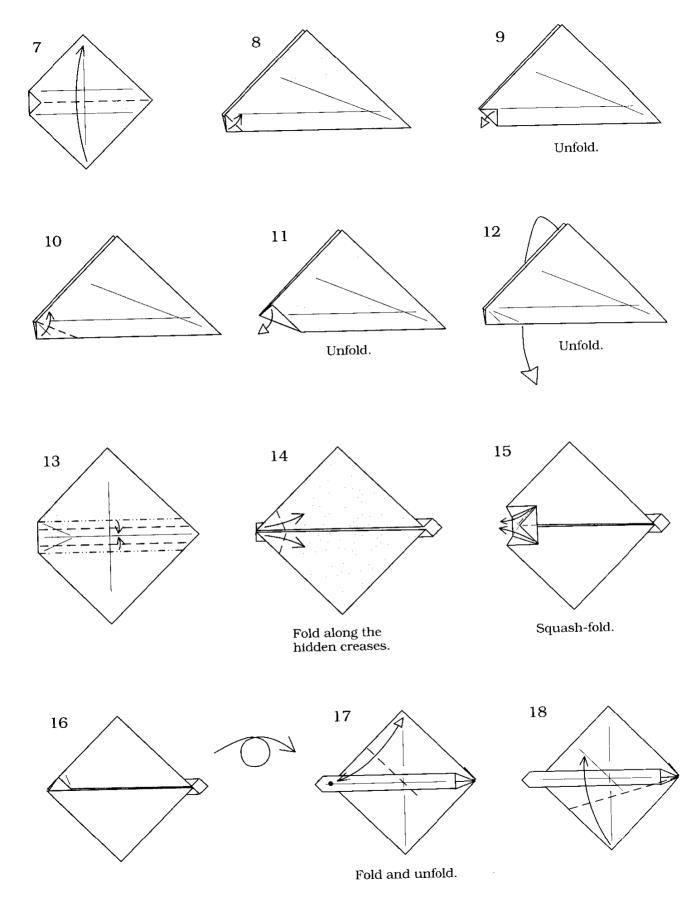


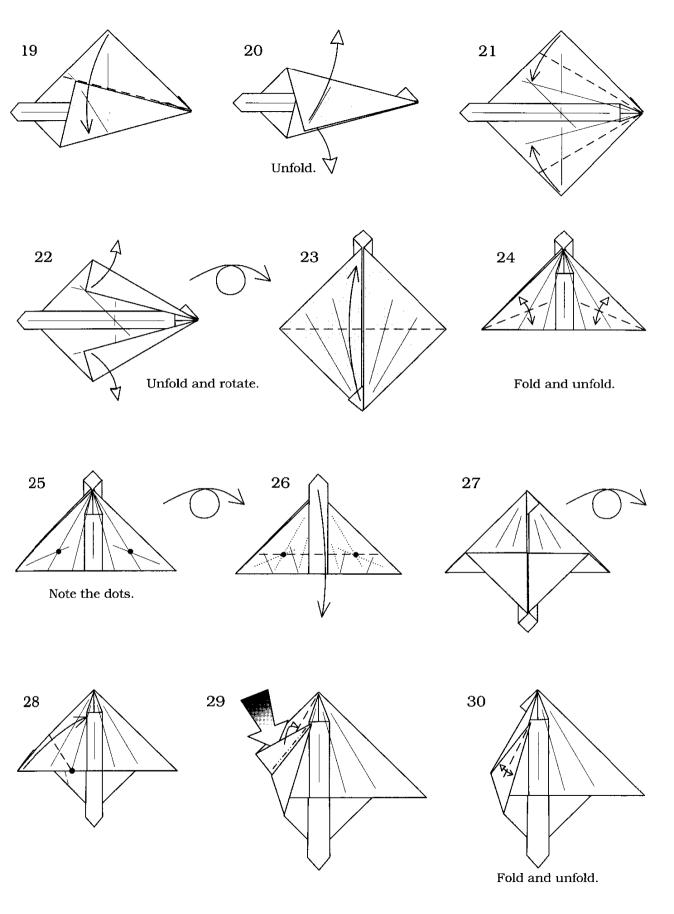




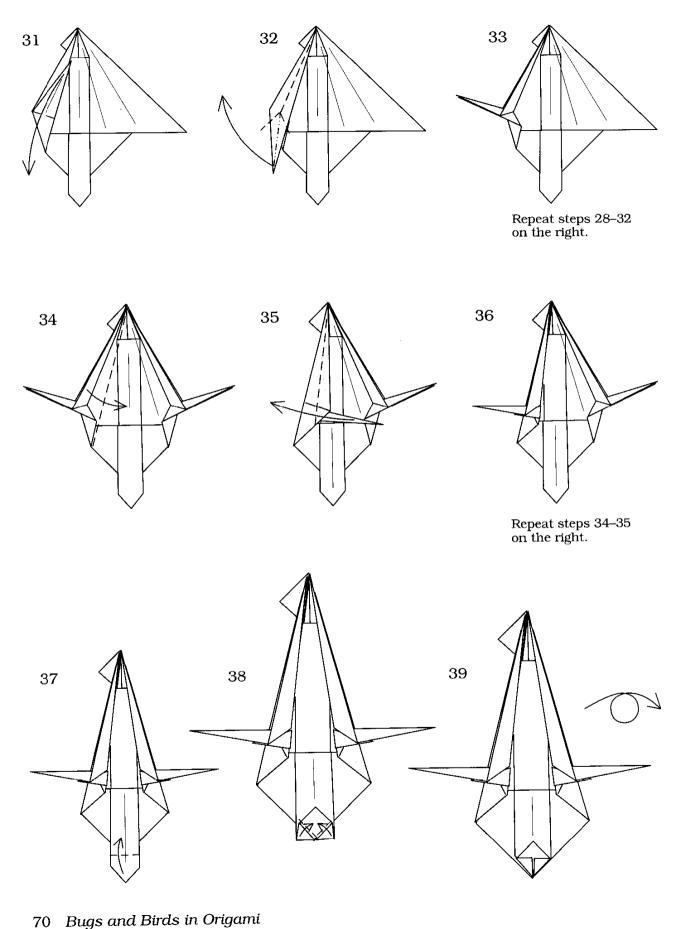


Fold and unfold.

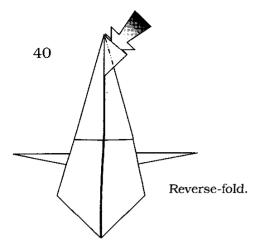


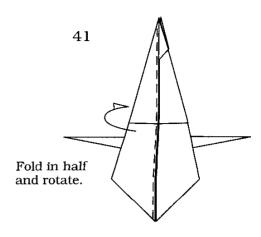


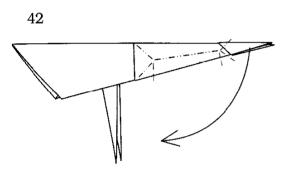
Stork 69



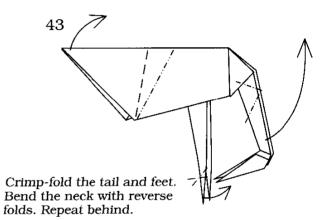
Bugs and Birds in Origami

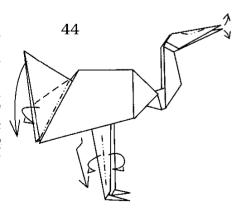




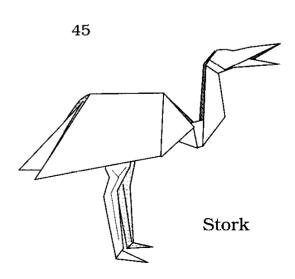


Double-rabbit-ear on the left and right.

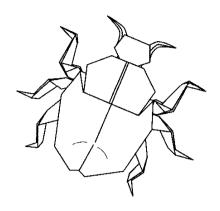




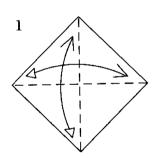
Crimp-fold the tail, thin and bend the legs, open the beak.



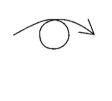
Scavenger Beetle



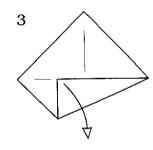
The scavenger beetle is a large beetle that can be found feeding on dead plants at the edge of ponds. The scavenger beetle has a distinctive ridge on its back. In order to breathe, it keeps an air bubble trapped underneath its body while it is in the water.



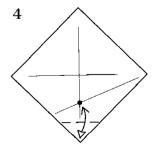
Fold and unfold.



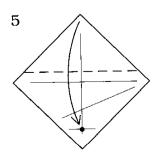
Crease lightly.

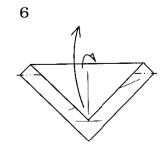


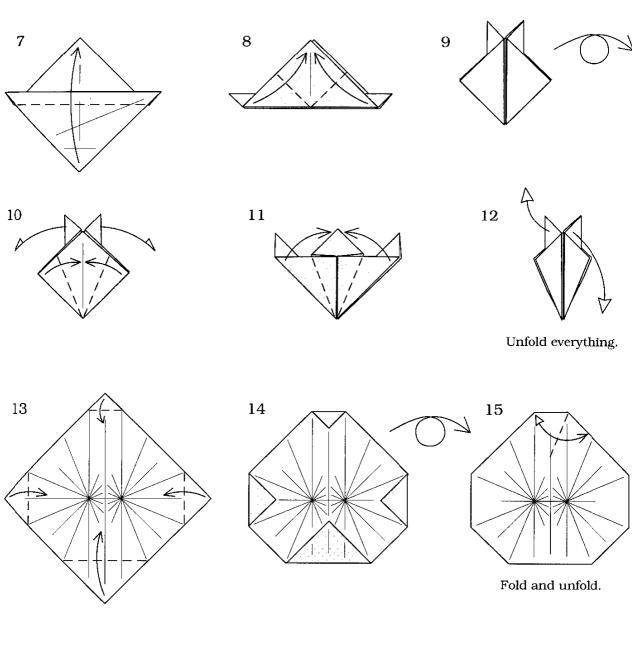
Unfold.

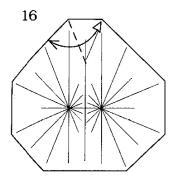


Fold and unfold.

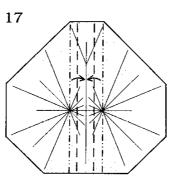


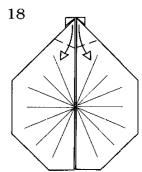




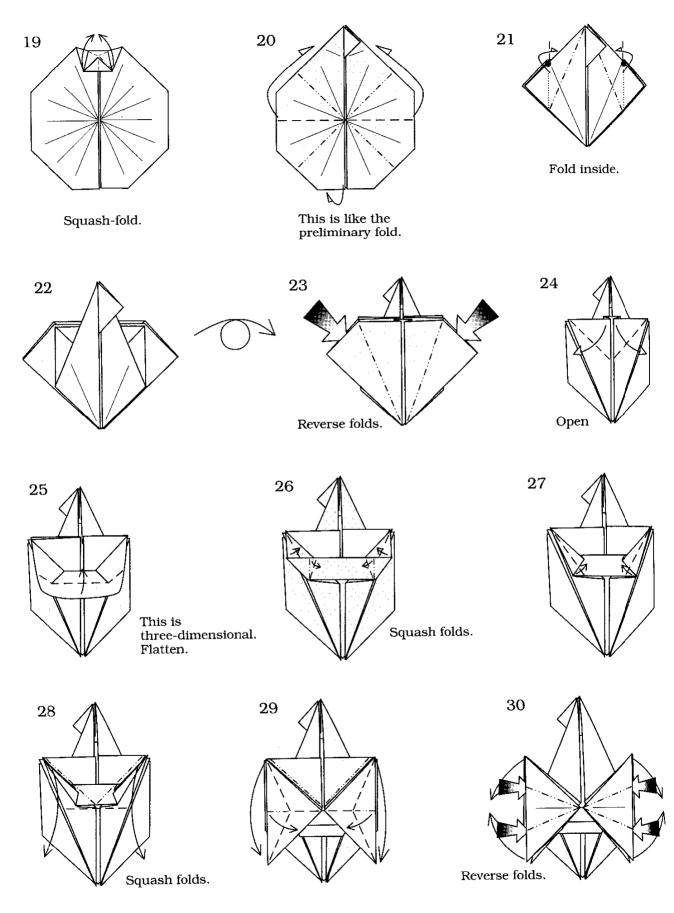


Fold and unfold.

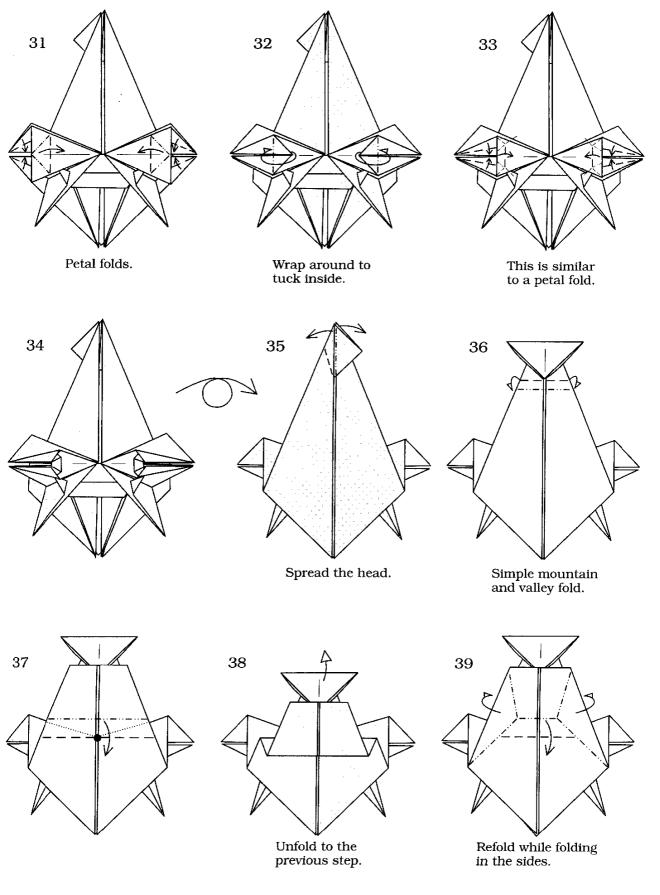


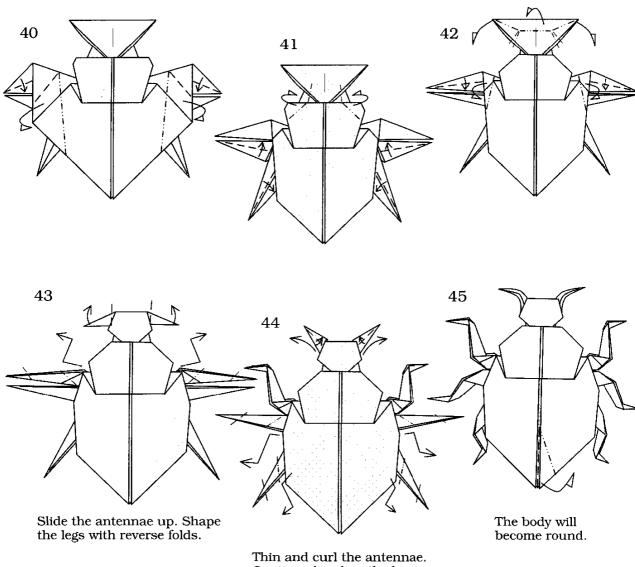


Fold along the hidden creases made in steps 15 and 16.

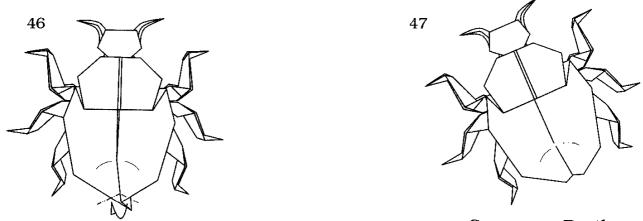


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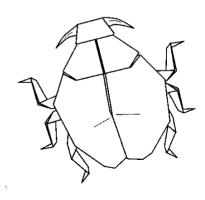
Thin and curl the antennae. Continue bending the legs with reverse folds.

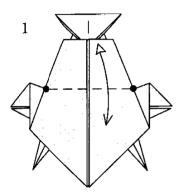


Scavenger Beetle

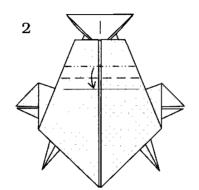
Ladybug

Ladybugs are small, brightly colored beetles. Generally under 1/4 inch long, they are oval in shape, have short legs, and are red or yellow with black spots or black with red or yellow spots. Ladybugs feed on destructive, plant-eating insects; adults are frequently used in pest control.

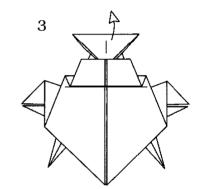




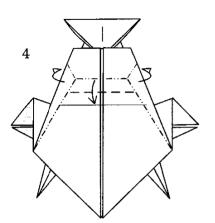
Begin with step 37 of the scavenger beetle. Fold and unfold.



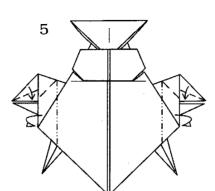
Fold to the crease.

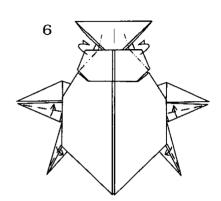


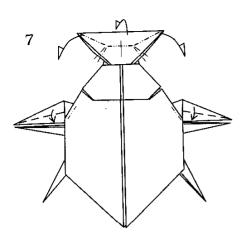
Unfold to the previous step.

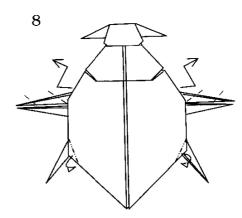


Refold while folding in the sides.

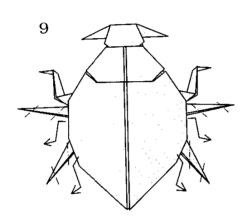


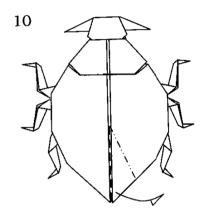




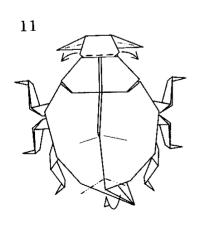


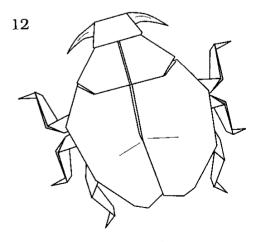
Shape the legs with reverse folds.





The body will become round.

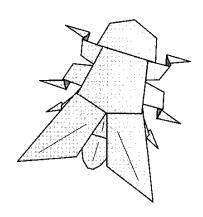


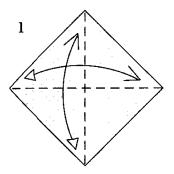


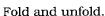
Ladybug

Fly

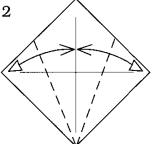
The fly is one of approximately 85,000 different insects known as dipterans. These creatures can be found just about anywhere on earth, from sub-Arctic conditions to the serene environment of the high mountains. The fly has an unremitting pursuit for food and drink; however, flies are one of the most important parts of the food chain.



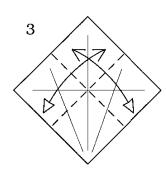




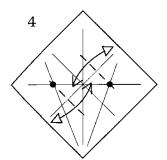




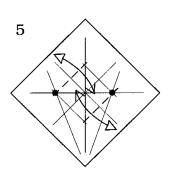
Kite-fold and unfold.



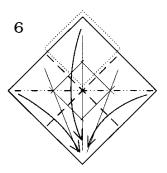
Fold and unfold.



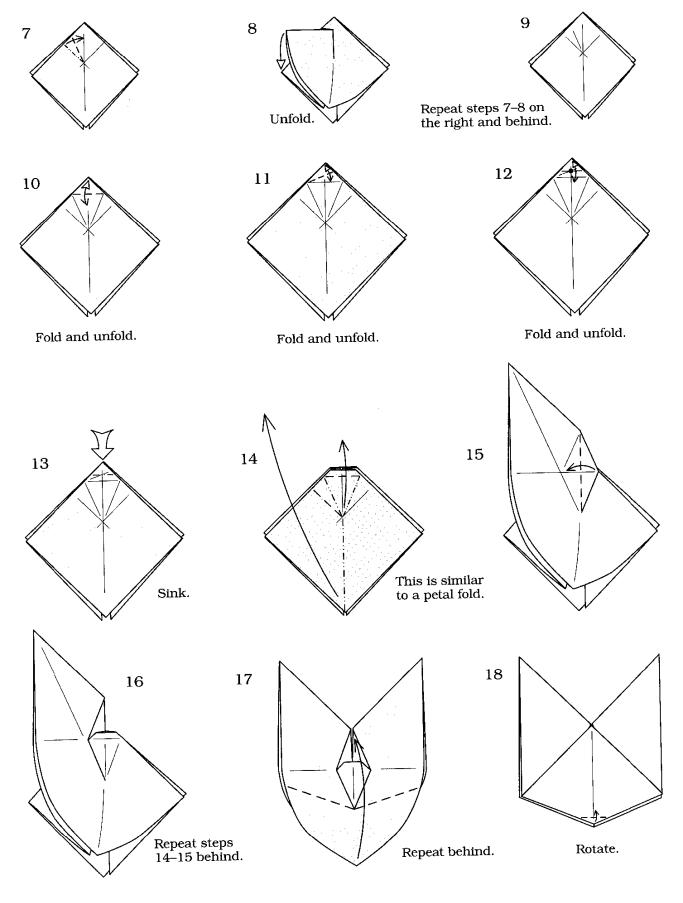
Fold and unfold.



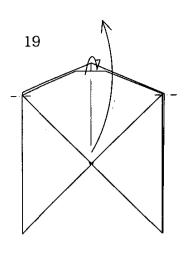
Fold and unfold.

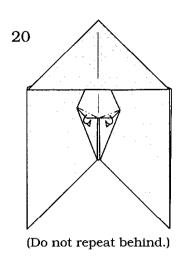


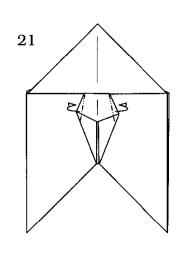
Note the upper square region has no crease marks from the kite-fold. Make a preliminary fold.

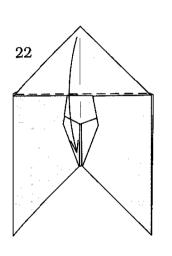


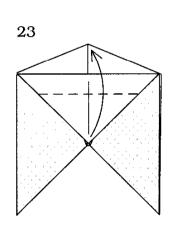
Bugs and Birds in Origami

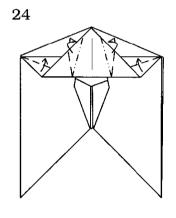


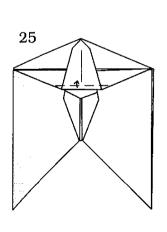


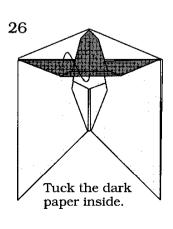


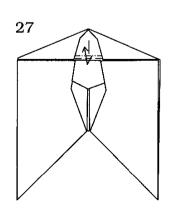


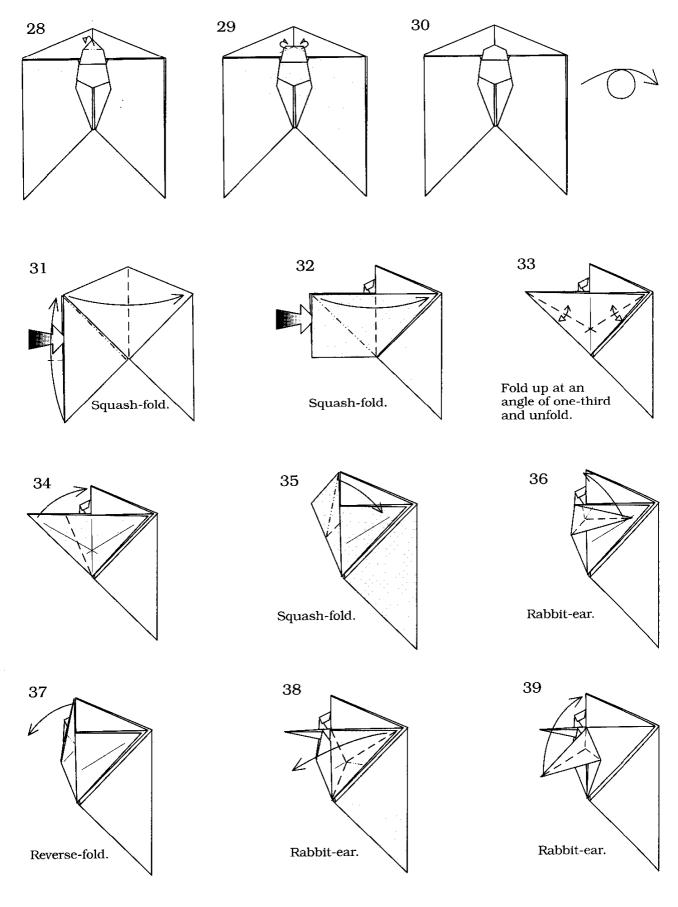




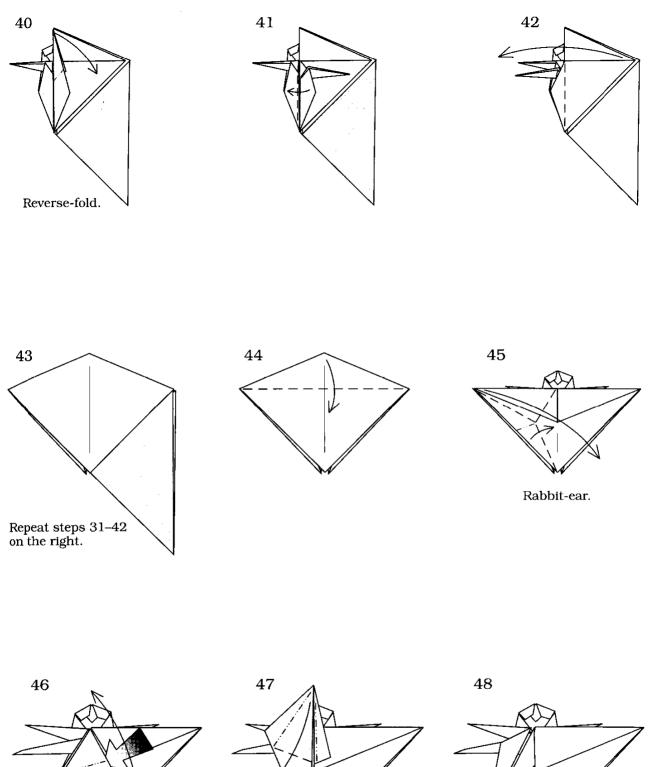




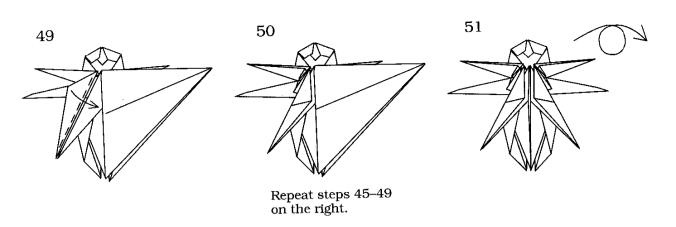


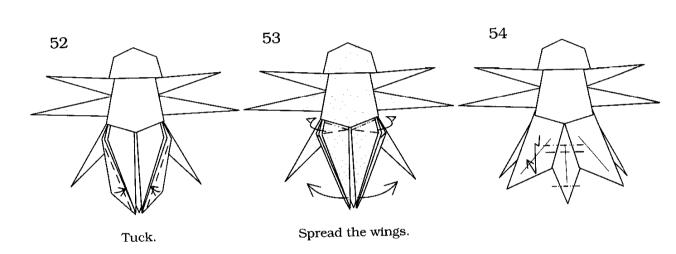


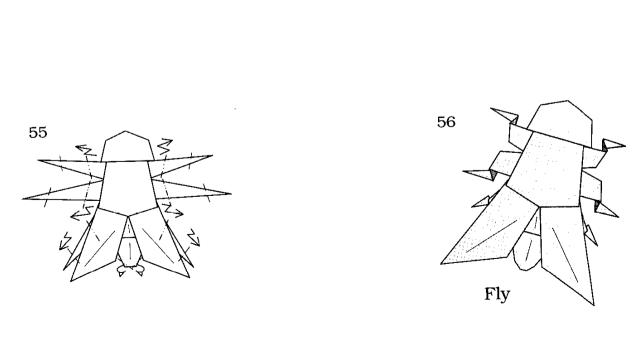
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46
47
48
Squash-fold.
Petal-fold.

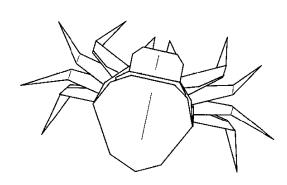


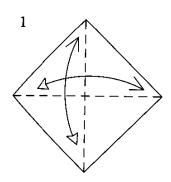




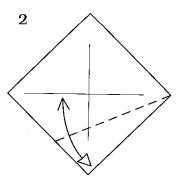
Spider

Spiders (arachnids) can be found all over the world. There are thousands of different kinds of spiders ranging in size and color. A female spider lays more than a thousand eggs at a time. When the eggs hatch, the baby spiders look like tiny versions of their full grown parents.

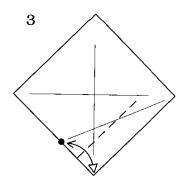




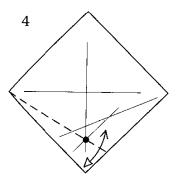
Fold and unfold.



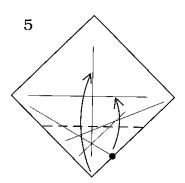
Fold and unfold.



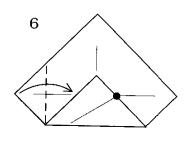
Folds the corner to the dot and unfold.

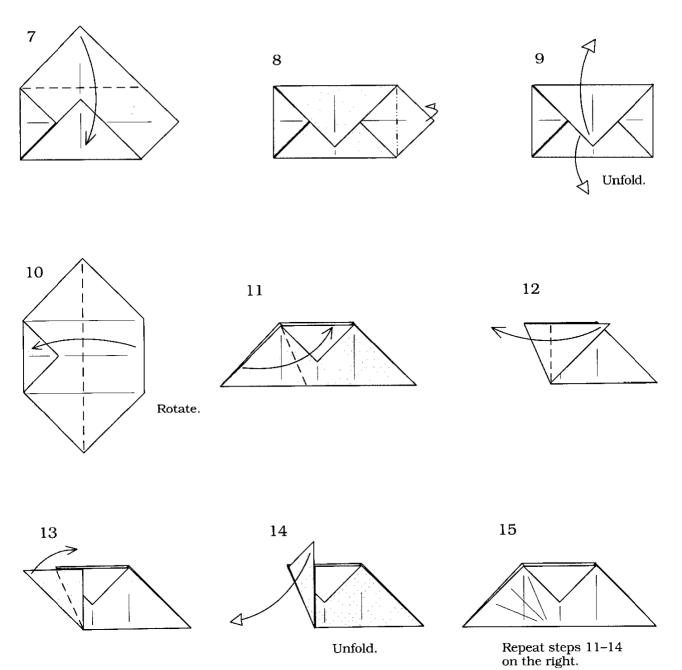


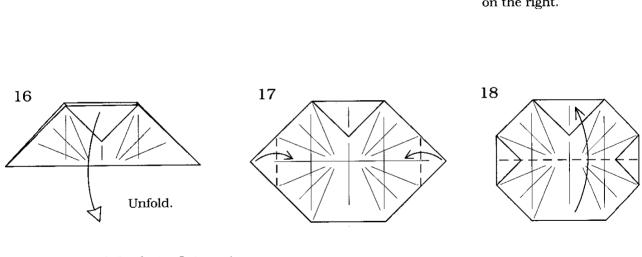
Folds through the dot and unfold.

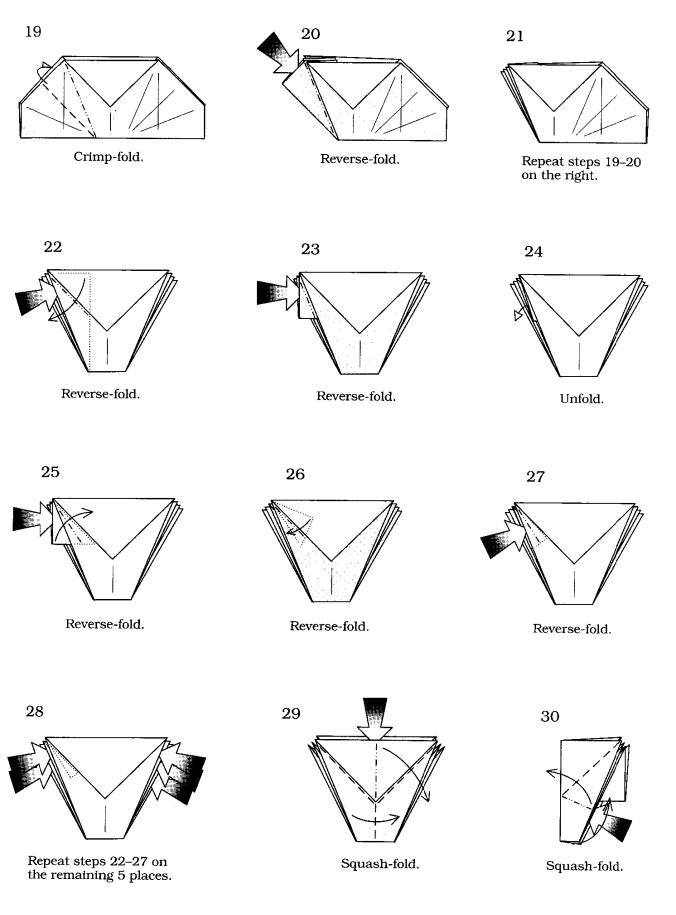


Fold up so the dot meets with the diagonal.

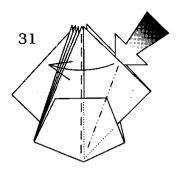




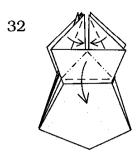




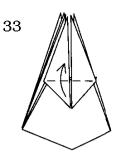
Spider 87



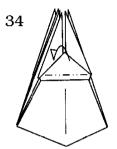
Squash-fold. Repeat behind.



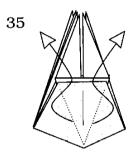
Petal-fold. Repeat behind.



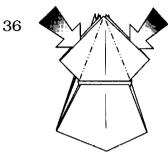
Repeat behind.



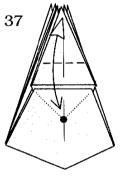
Repeat behind.



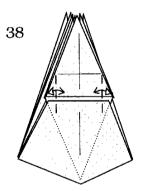
Unwrap the white paper. Do not repeat behind.



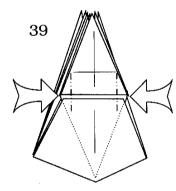
Reverse folds.



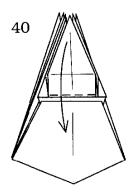
Fold and unfold.

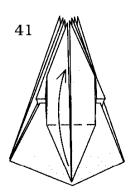


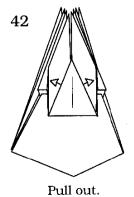
Fold and unfold.

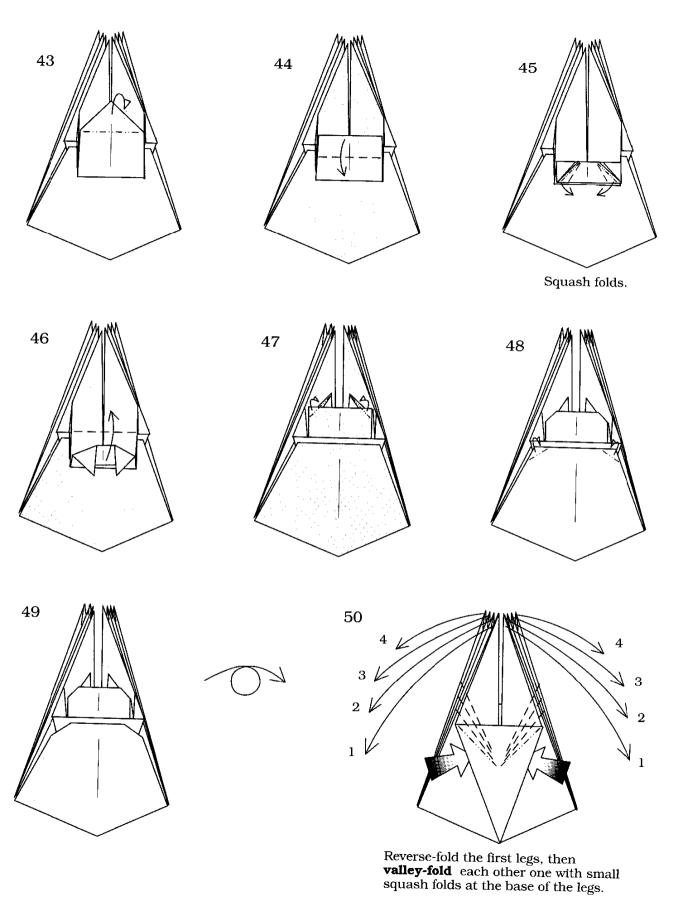


Sink.

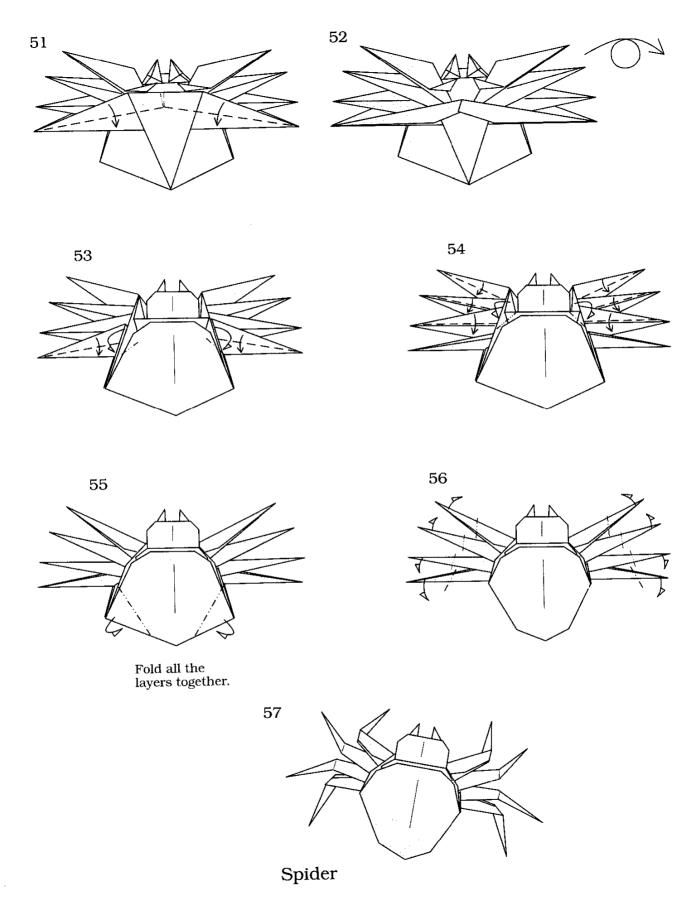




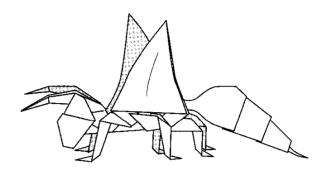




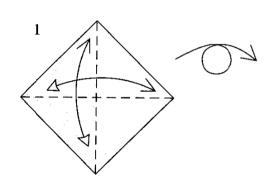
Spider 89



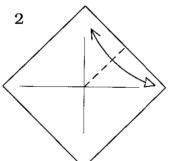
Wasp



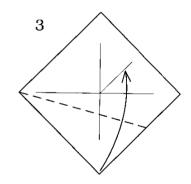
There are over 20,000 species of wasps. These stinging insects are thin between the thorax and abdomen. The adults feed on nectar while the larvae feed on insects. The most familiar wasps are yellow jackets and hornets.



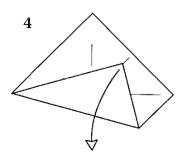
Fold and unfold.

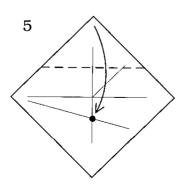


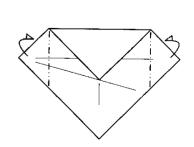
Fold and unfold.



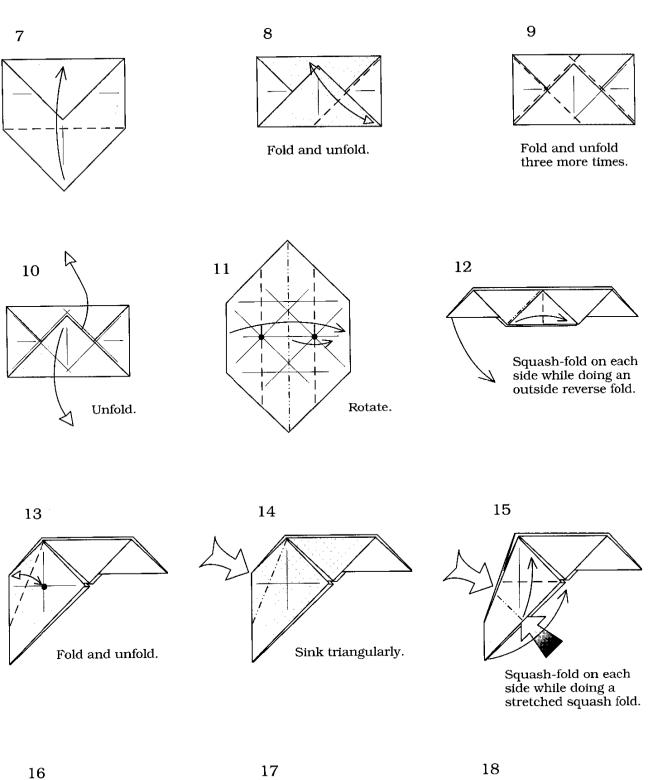
Folds the corner to the crease.

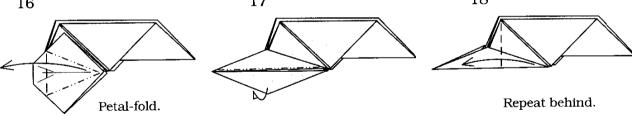


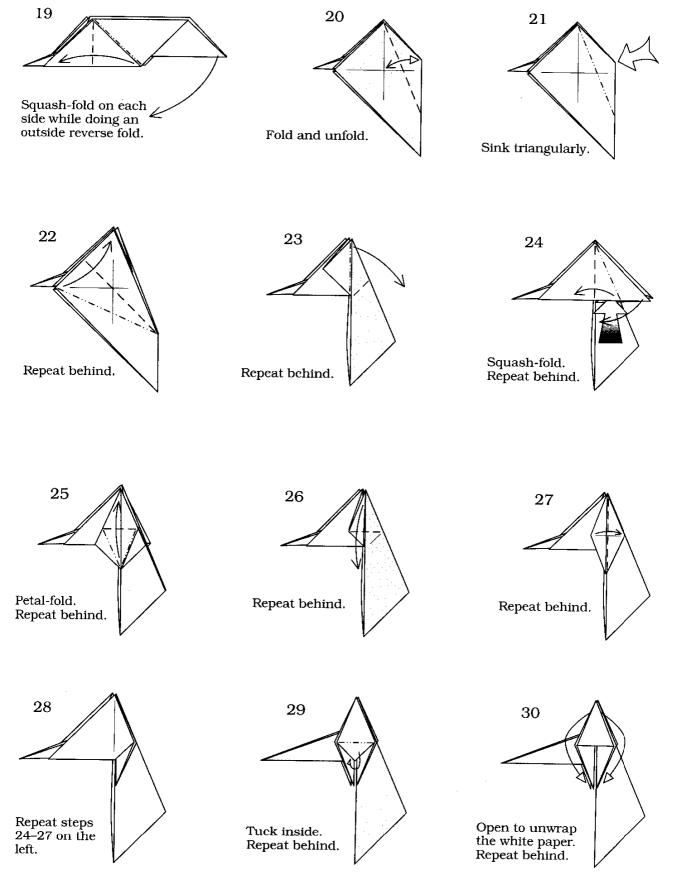


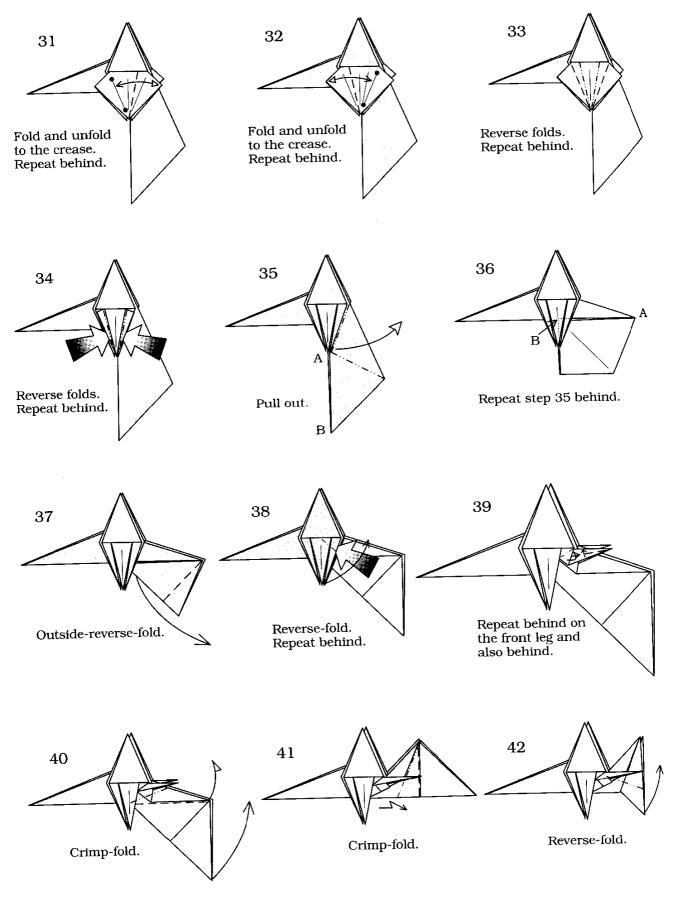


6

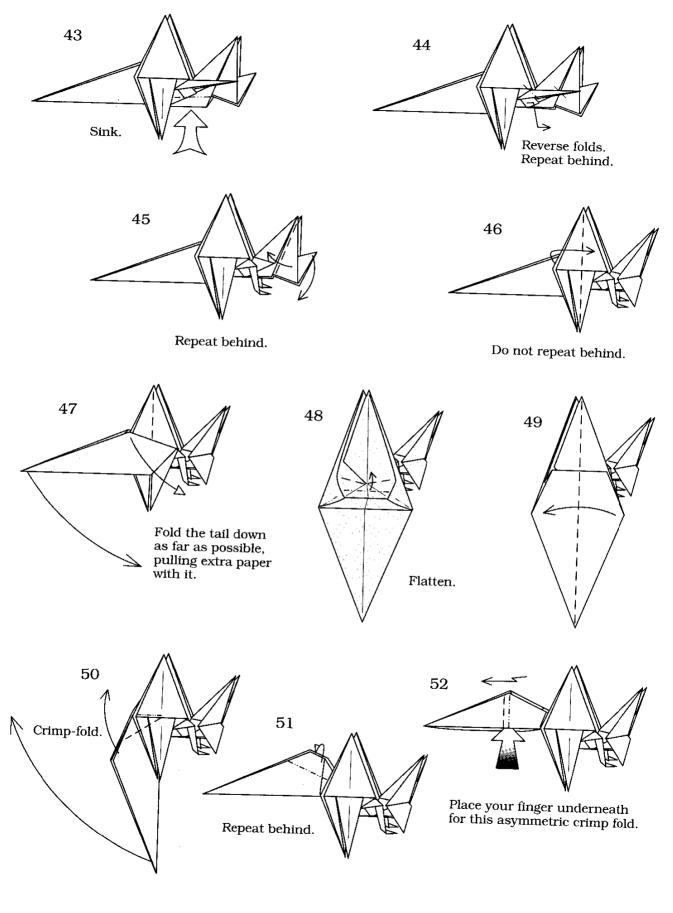


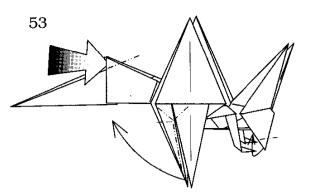




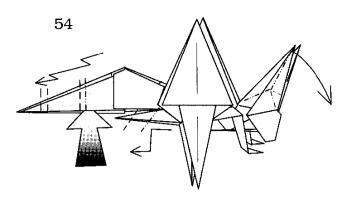


Bugs and Birds in Origami

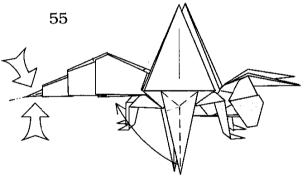




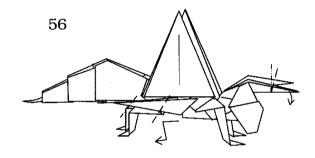
Reverse-fold at the tail and head. Double-rabbit-ear the legs. Repeat behind.



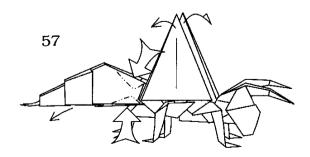
Double-rabbit-ear the antennae, reverse-fold the legs, and crimp-fold the tail. Repeat behind.



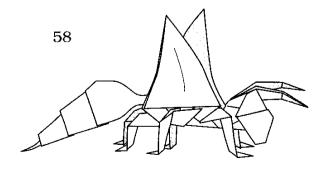
Squeeze the stinger and rabbit-ear the legs. Repeat behind.



Outside-reverse-fold the legs and crimp-fold the antennae. Repeat behind.



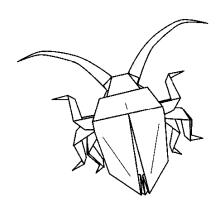
Shape the abdomen and spread the wings.

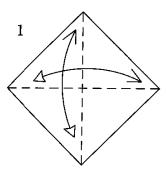


Wasp

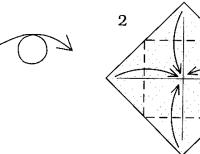
Long-Horned Beetle

The Long-horned Beetle is one of the most destructive plant pests in the world. This pest has caused much devastation to countries throughout Asia and elsewhere around the world. At 1 1/4 inches long, this insect is coal black with irregular white spots on its back. The females chew notches in the bark of trees and deposit their eggs there. After the beetles mature, they burrow out of the tree in late Spring or Summer leaving small holes in the trees. Adult beetles feed on the leaves and bark of trees. The infested trees can be identified by either the beetles, the holes from the egg laying, sawdust around the trees, or by sap dripping from the trees.

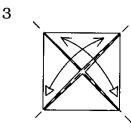




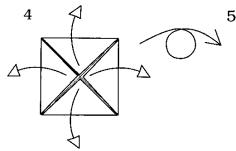
Fold and unfold.



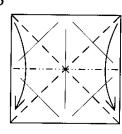
Blintz-fold.



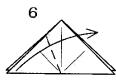
Fold and unfold.

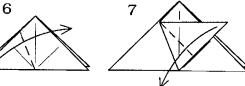


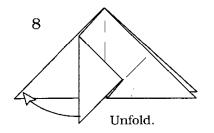
Unfold.

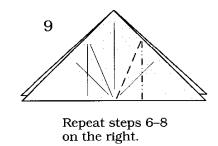


Make the waterbomb base.

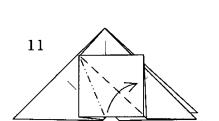




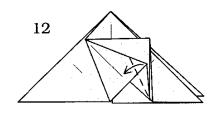


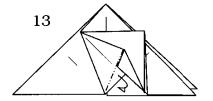


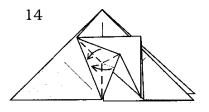
Squash-fold.

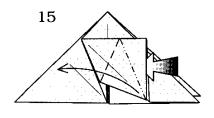


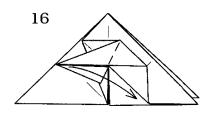
Squash-fold.



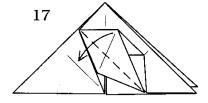


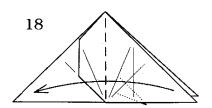




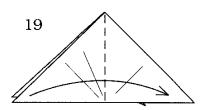


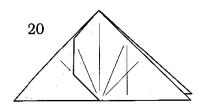
Squash-fold.



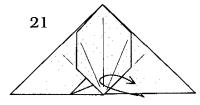


Fold the outer layer to the left while keeping the inner flap at the right.

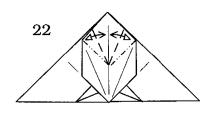




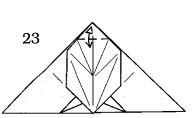
Repeat steps 10–17 on the right.



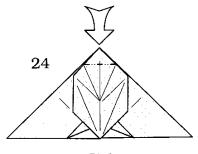
Pull out the flap.



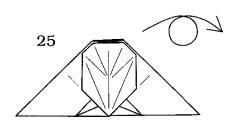
Fold and unfold.

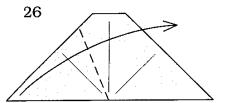


Fold and unfold.

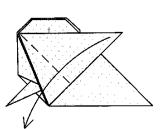


Sink.

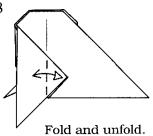


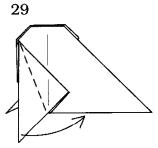


27

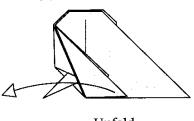


28

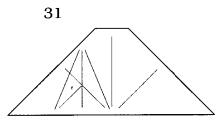




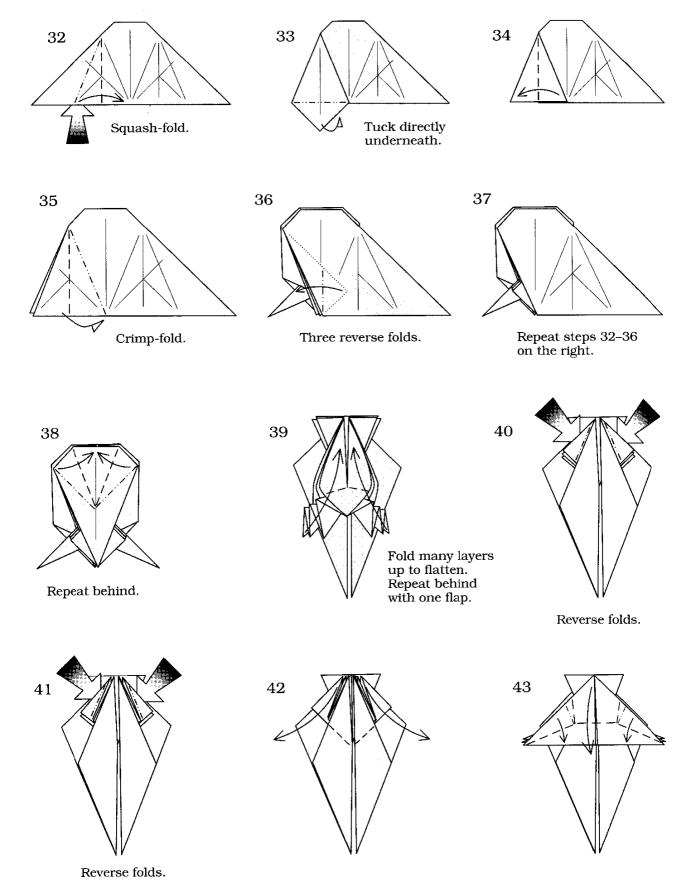
30

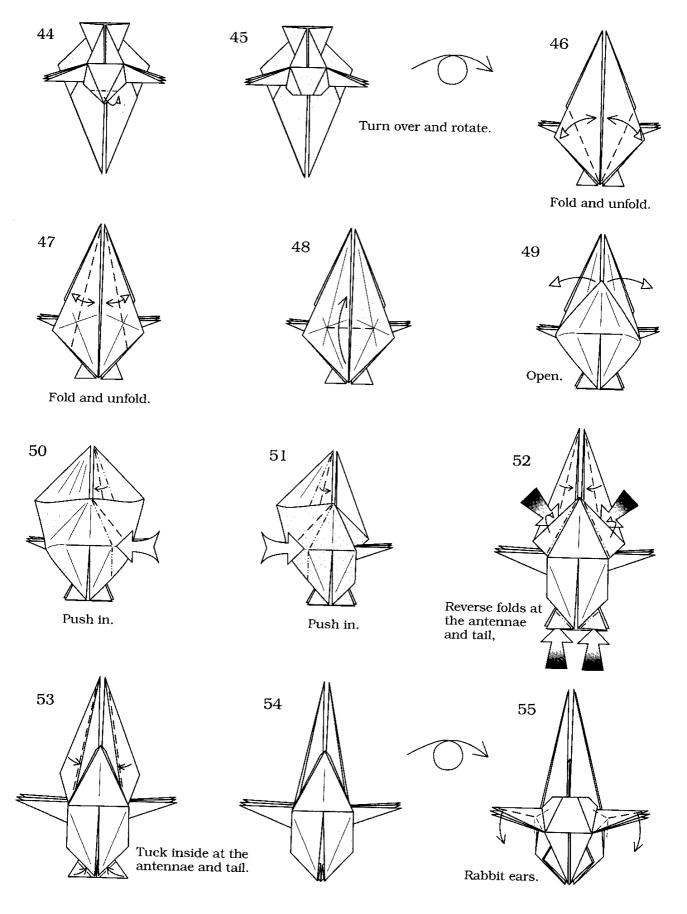


Unfold.

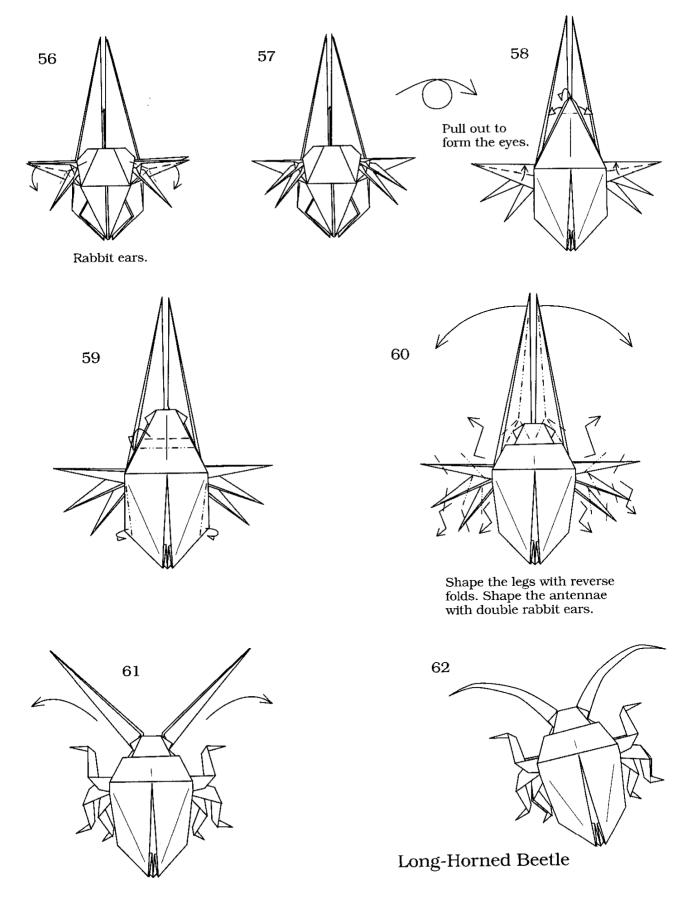


Repeat steps 26–30 on the right.



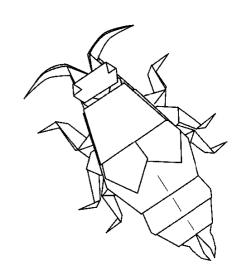


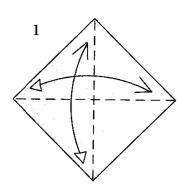
Long-Horned Beetle



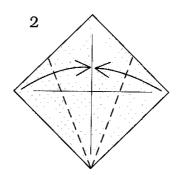
Earwig

Earwigs are small insects that have large membranous hindwings that lie hidden under short, leathery forewings. The earwig varies from 5 to 50 millimeters in length and is flat, slender, and dark colored. This nocturnal insect is usually herbivorous. Several species can fire a foul-smelling liquid for distances up to 10 centimeters.

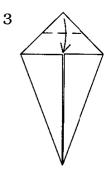


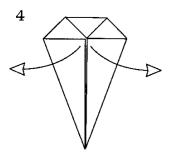


Fold and unfold.

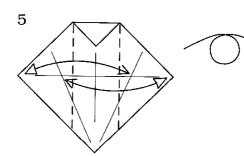


Kite-fold.

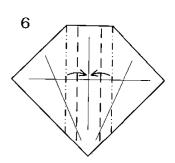


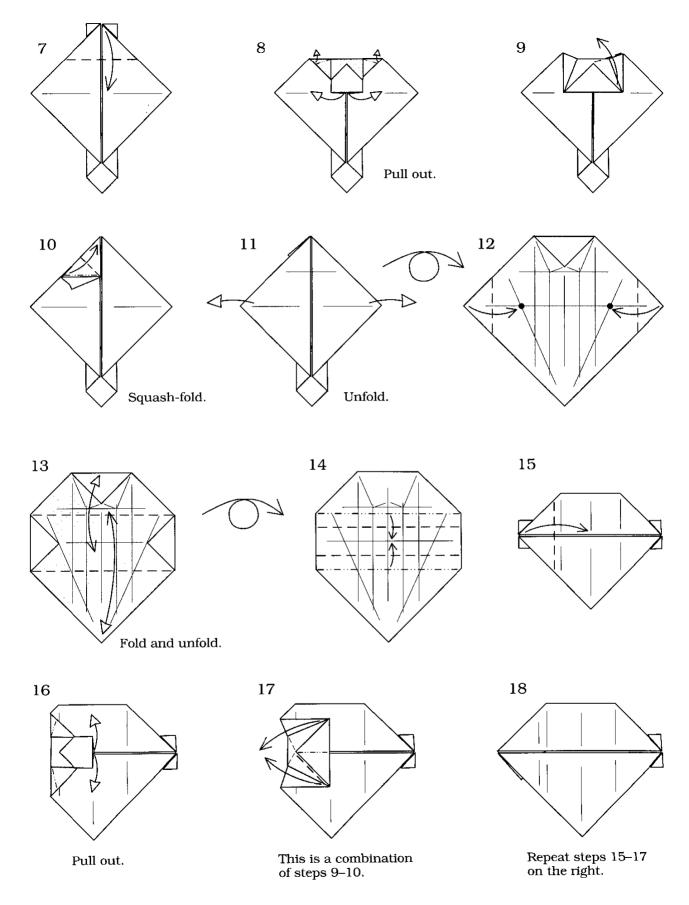


Unfold.

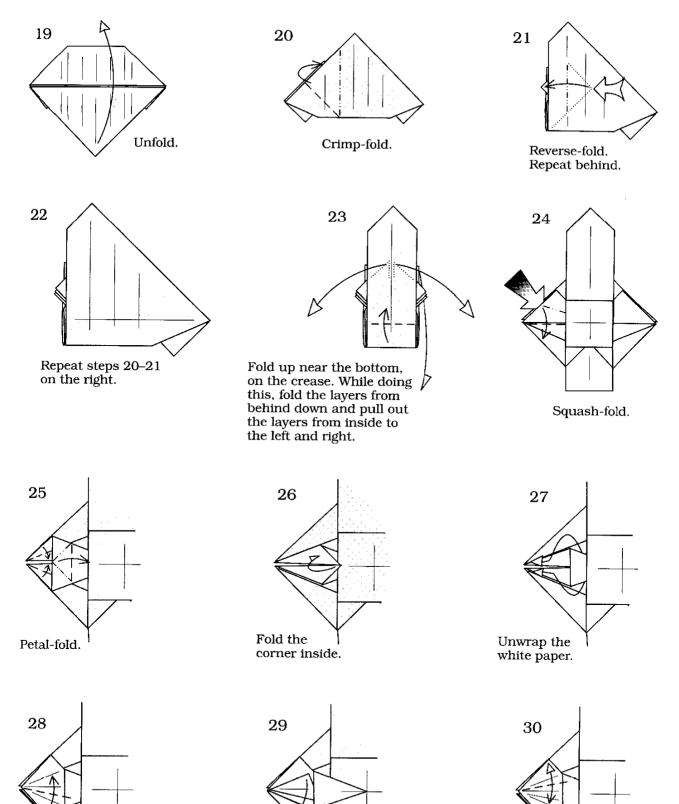


Fold and unfold.





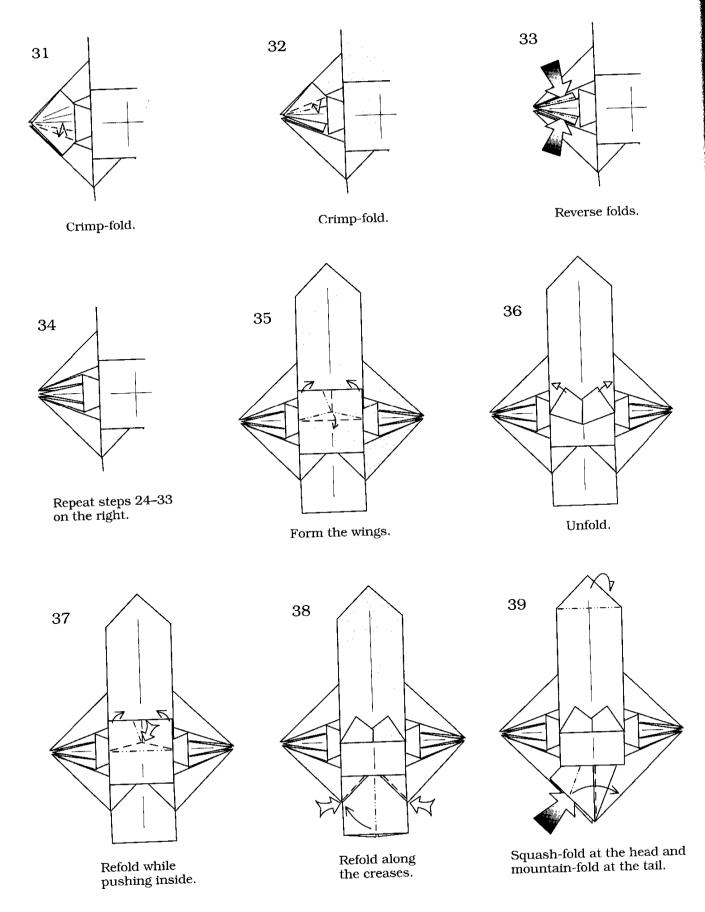
104 Bugs and Birds in Origami

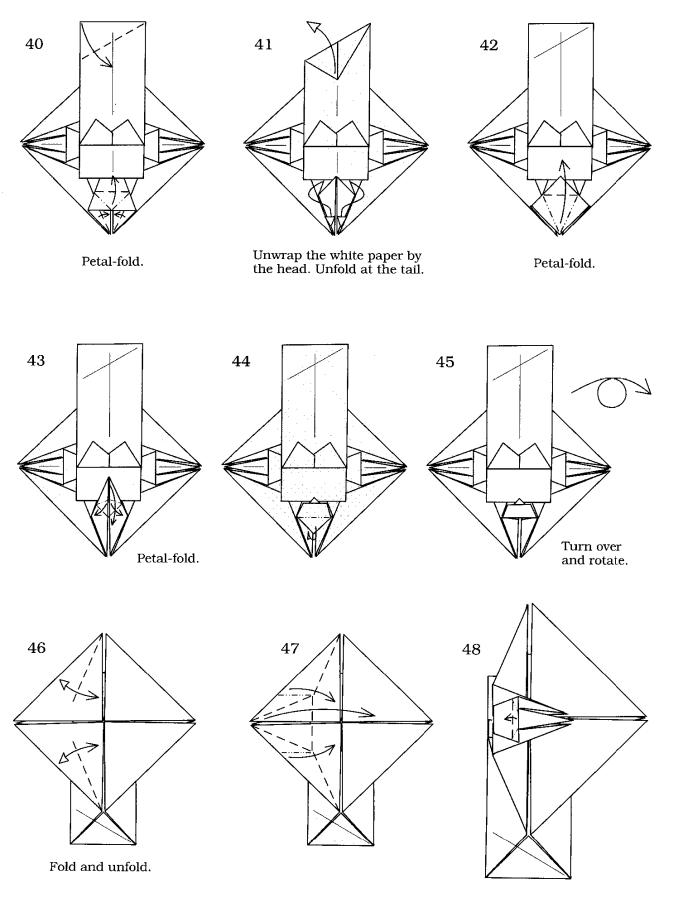


Unfold.

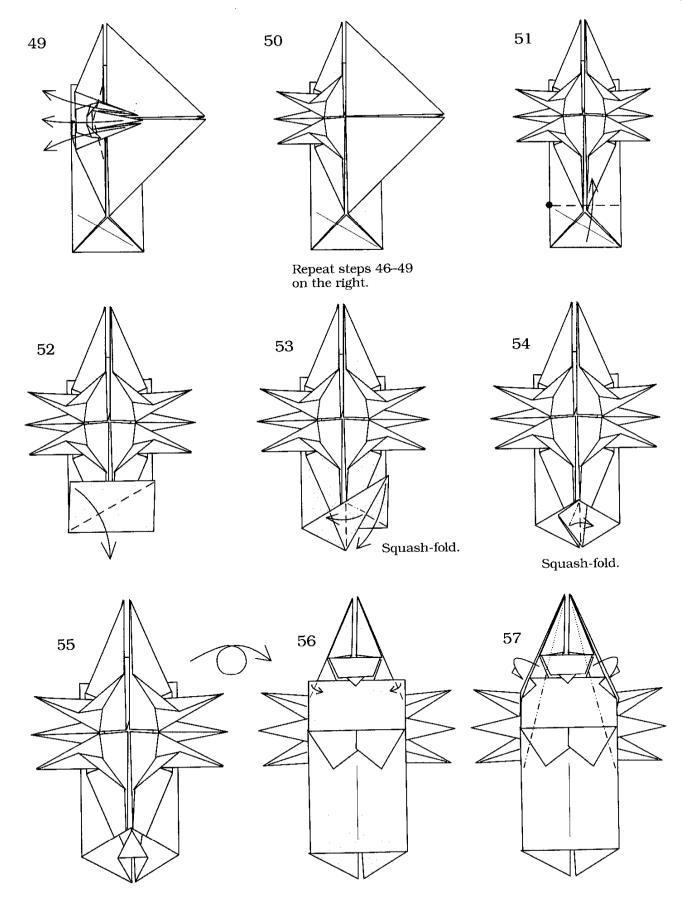
Fold and

unfold.

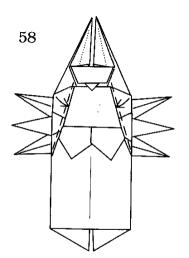


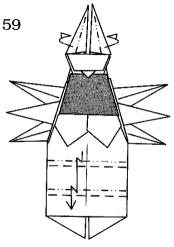


Earwig 107

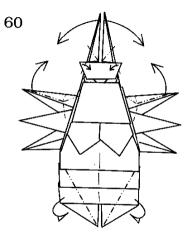


108 Bugs and Birds in Origami

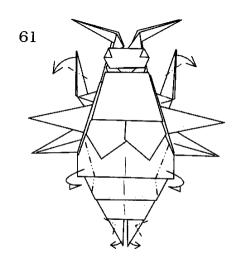


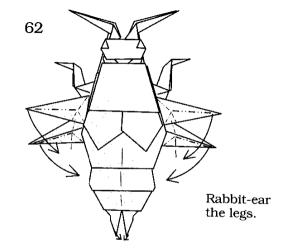


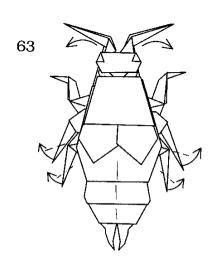
Fold both layers together at the antennae.

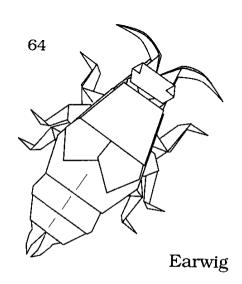


Rabbit-ear the legs and reverse-fold the antennae.

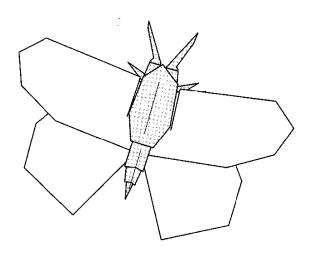




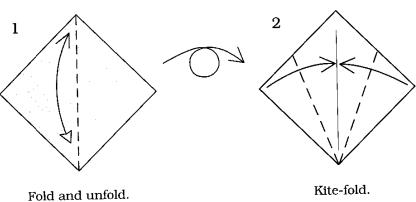




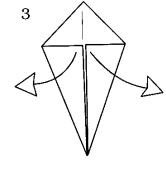
Butterfly



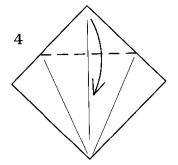
Butterflies are very colorful insects with four large wings. These wings are covered with tiny scales. Butterflies have a slender body and slender antennae. Many of the caterpillars we see are actually butterflies in their larval stage.

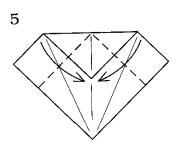


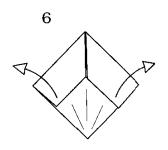




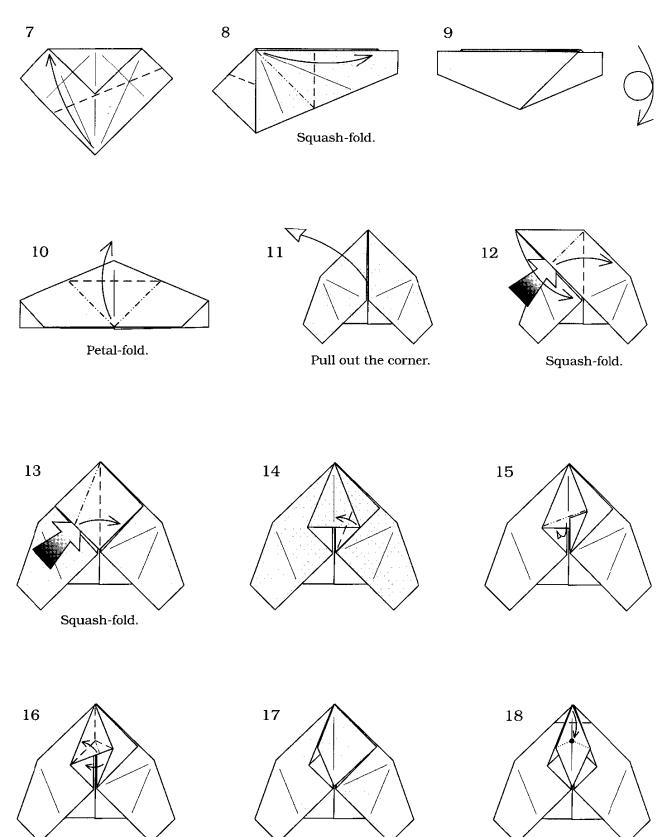
Unfold.



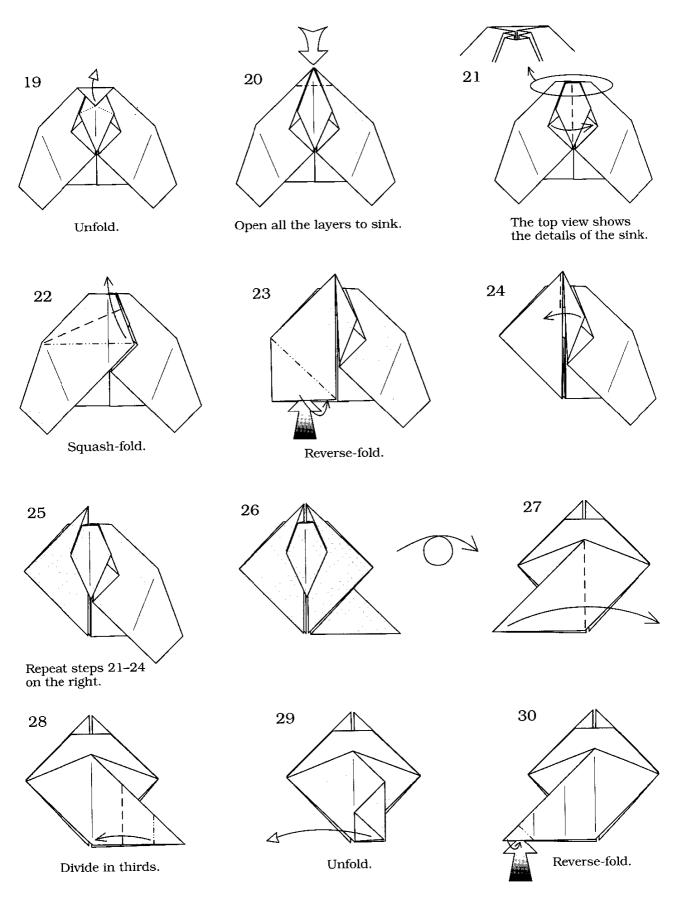




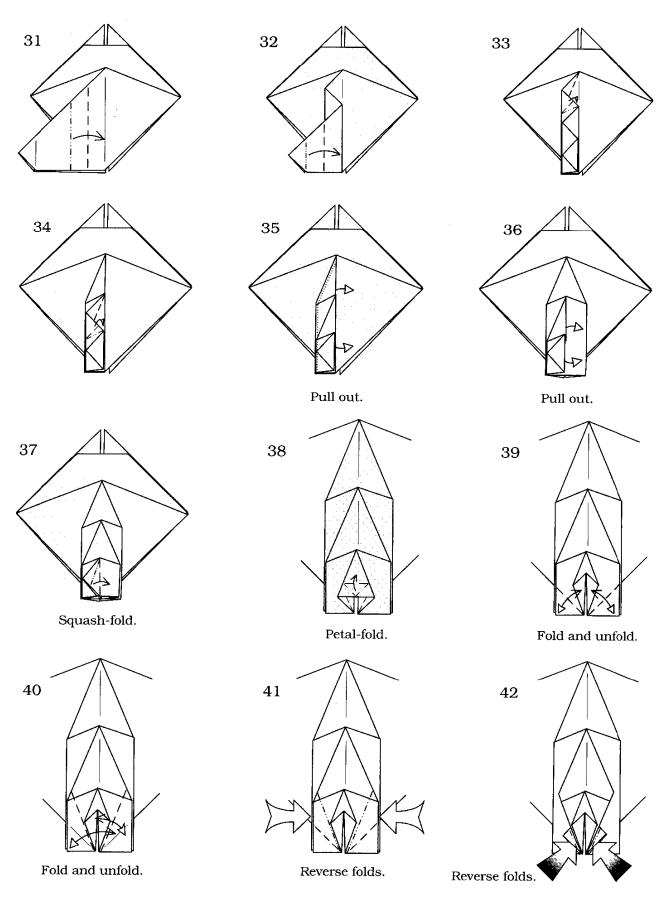
Unfold.

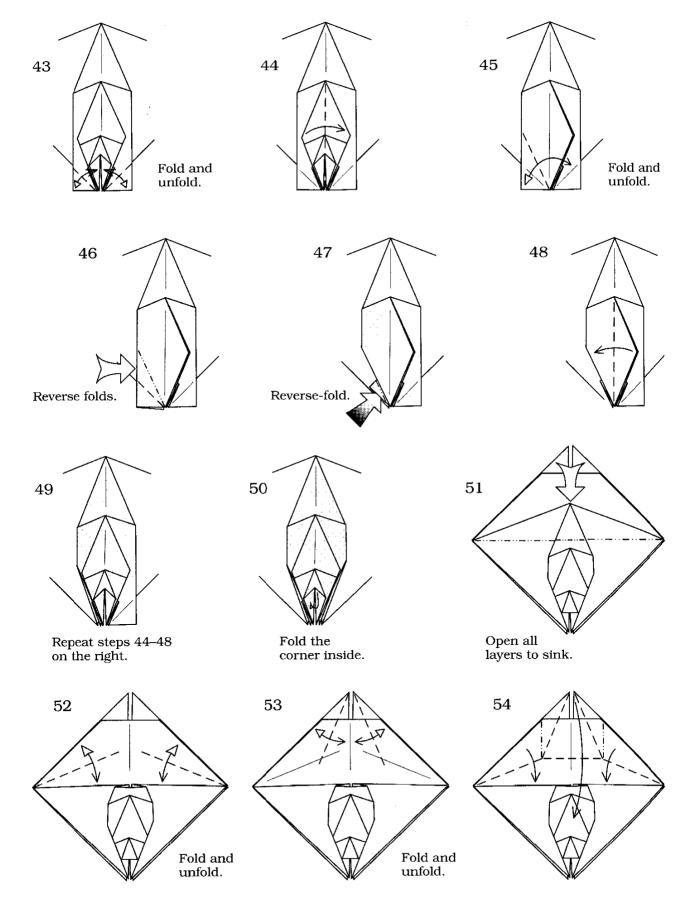


Repeat steps 13–16 on the right.

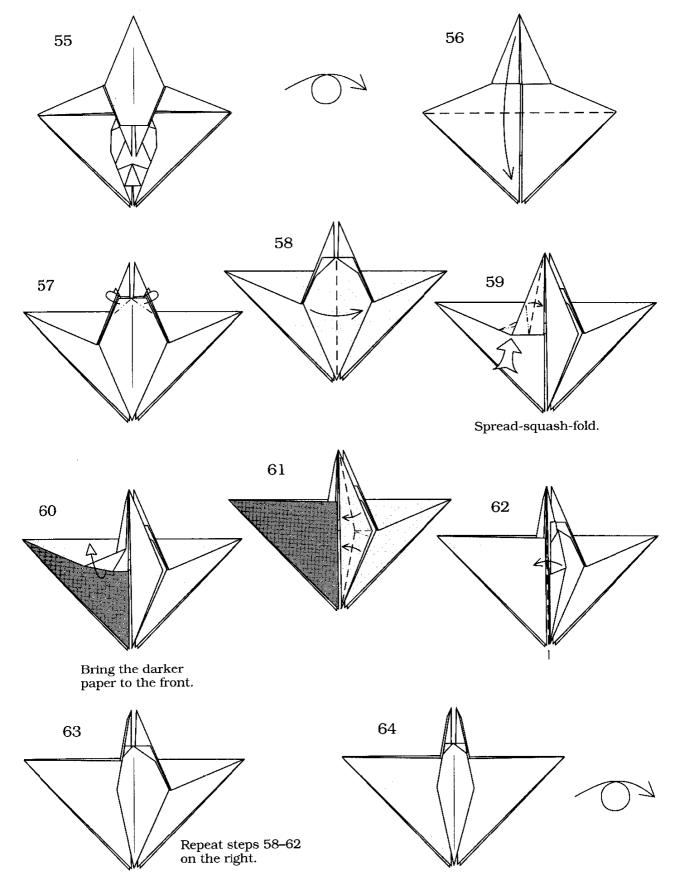


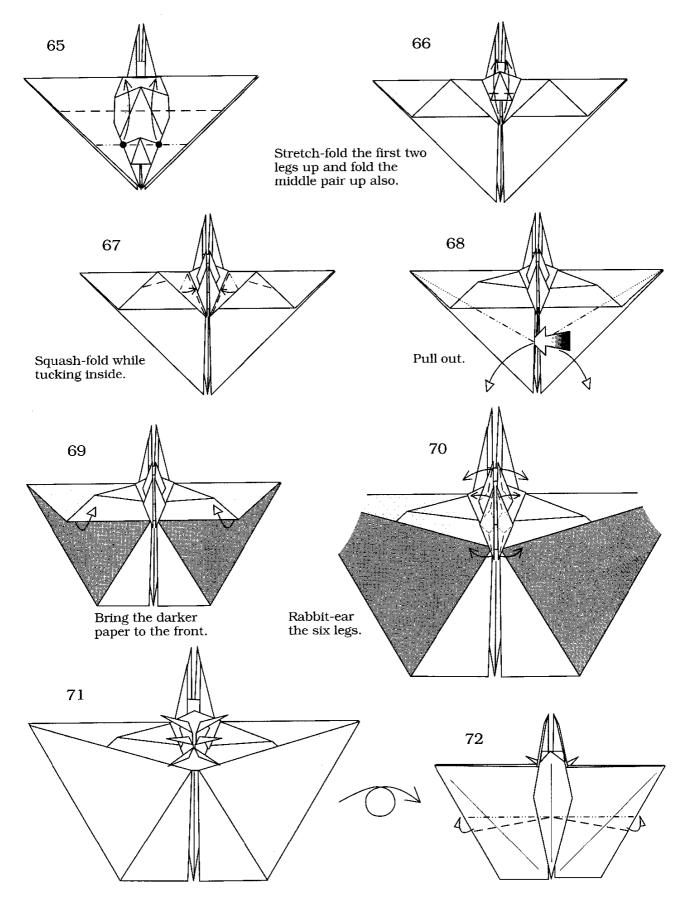
112 Bugs and Birds in Origami



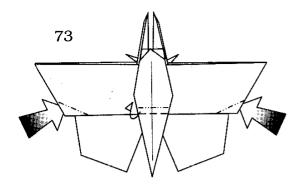


114 Bugs and Birds in Origami

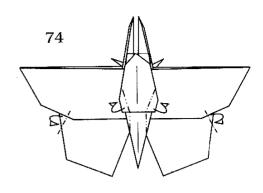


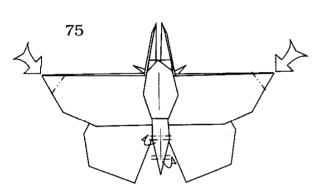


116 Bugs and Birds in Origami

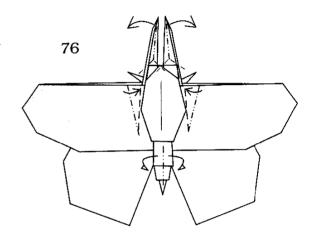


Reverse-fold the wings.





Sink the wing tips.



Thin the antennae. Bend the tail. Lift the wings up slightly.

