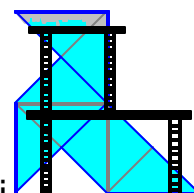


# Scaffold



Helping to support and maintain the world of origami

## Origami USA Convention is Coming

Every year there is a big international origami convention in New York City hosted by Origami USA (Formerly the Friends of The Origami Center of America). This is the largest such convention in North America and offers an opportunity to share some truly great folding.

This year the convention runs from Junenn through Junemm. Although I first joined the organization more than a decade ago, this will be the first year that I will be able to attend. I do not know how many Scaffold readers will be there, but I am hoping to meet at least a few of you.

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Next month's issue will probably have a review of the convention and links to other reviews and picture galleries.

### New Books

This month I found a few more old books in the online bookstores specializing in used books. I also discovered a new item at Kim's Crane ([www.kimscrane.com](http://www.kimscrane.com)).

HOW TO MAKE ORIGAMI by Isao Honda (No ISBN)(English) QQQ models.

FUN-TIME PAPER FOLDING by Elinor Tripato Massoglia (No ISBN)(English) 13 mostly traditional models.

CARTOON ORIGAMI by Halle (No ISBN)(Spanish) 10 Models of Warner Brothers Looney Toons characters. See book review for details.

### Siberian

I was recently contacted by Eugeny Fridrikh, a paperfolder in

Siberia. Eugeny has been a paperfolder for 13 years and recently began an impressive project similar, in some ways, to Scaffold. In December of 2001, Eugeny released the first issue of a new electronic origami publication called Siberian.

At just over half a year old, Siberian has published articles about the history of origami, super-complex origami. Erotic origami, and origami on the web. The magazine has profiled many Western folders including Eric Joisel, Robert Lang, Jeremy Shafer, Marc Kirschenbaum, David Lister, Dave Brill and Ronald Koh.

Each issue contains articles (currently only in Russian), photos, drawings and diagrams for a number of models. I have found this magazine to be very professional-looking and a wonderful addition to the world of origami. Like Scaffold, Siberian is a labor of love and has been offered to worldwide folding community free of charge.

Through e-mail, Eugeny discovered the vast wealth of origami that was previously almost impossible to access in his homeland because of low accessibility and prohibitive expenses. The other Russian origami publication, simply called Origami, concentrates mostly on children and teachers. Eugeny took this rarified origami atmosphere and, by using e-mail and the Web, has done a remarkable job of begining to fill the void. I wish him the best of success.

If you would like to check out the back issues, there are two websites to go to. The sites are [www.siberiagami.narod.ru](http://www.siberiagami.narod.ru) (Eugeny's site) and [www.eSiberian.narod.ru](http://www.eSiberian.narod.ru) (a page created by one of his readers, Alex Kolesov).

## Submissions

Scaffold wants you! Scaffold needs you! Scaffold wants to show off your original designs. If you have any original designs and would like to share them with the world, send them in to Scaffold. All designs will be used. Scaffold will not edit or censor any design sent in.

Designs may be sent in either electronically, or on paper. Electronically is faster, but please try to use a format that keeps the file size down. Crease-fold

patterns are a great way to pack more models into a smaller space.

Paper diagrams can be sent to:

Joshua Koppel  
PO Box 641374  
Chicago, IL 60664-1374  
USA

Paper diagrams will take a little longer for publication as they will have to be scanned, but they will still be used.

Please remember to include a statement of permission with all submissions stating that it is okay for your design to be used in an upcoming issue of Scaffold. Thank you.

## Cartoon Origami

CARTOON ORIGAMI by Halle is large-format soft-cover book with a wonderful collection of models that very accurately portray various cartoon characters. But the folder should be warned that the realism of color is obtained through compound origami.

The ten models diagramed in the book are Daffy Duck, Sylvester, Foghorn Leghorn, Roadrunner, Wille E. Coyote, Tasmanian Devil, Tweety Bird, Speedy Gonzales, Yosemite Sam, and Bugs Bunny. The Roadrunner and Wille E. Coyote can be seen at the website for the Asociación Española de Papiroflexia at

<http://www.pajarita.org/index.asp>.

Some folders may have seen diagrams of some of these models in the past and might be a little confused by this book. The reason for that is that the models were designed by Carlos González Santamaría but the book credits them to Halle. These are bothe the same person with Halle being the pen name or pseudonym.

This book was barely in my possession before I found myself folding Tweety Bird (my Wife's favorite). I found the diagrams to be clear and easy to follow. There is no text in the diagrams other than the paper size and color. The diagrams are laid out in an interesting multi-track format that has pieces being completed as they are needed to be added to the whole. I would recommend reading through the diagrams first and getting the proper paper sizes and colors ready before starting the actual folding. Otherwise, these are models of moderate folding complexity that result in wonderfully detailed figures.

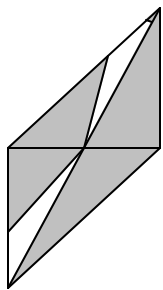
Fans of these folds will be pleased by the end of the book where it is announced that CARTOON ORIGAMI 2 will be coming soon. It will include Kermit the Frog, Bert, Ernie, Asterix, Obelix, Dogmatx, Mickey Mouse, The Pink Panther, and Papa Smurf.

CARTOON ORIGAMI

can be obtained through the Asociación Española de Papiroflexia at <http://www.pajarita.org/index.asp> or through Kim's Crane ([www.kimscrane.com](http://www.kimscrane.com)). Kim's Crane sells the book for \$14.00 US.

## Designing Sonobe Units II

What is the non-standard unit? Well, the standard unit is a symmetrical construction that results in all joints being the same. Therefore, the non-standard unit is non-symmetrical and forms



varying joints (see Figure 1). One such unit is the Sonobe: Asym 1 unit that was diagramed in the last issue.

Non-standard units are legion in

number. The more variations that one comes up with, the more ways they can be combined into non-standard units. A single variation can be used to create one non-standard unit with the variation applied to only one half. Two variations can create three non-standard units and three variations can combine into six non-standard units. Fifteen variations can combine into 120

non-standard units (**combinations = (Variations/2 + 0.5) x Variations**). Now factor in the fact that the units themselves can be joined to each other in different ways (i.e. end A to end A, end A to end B, and end B to end B).

If you have already created Sonobe unit variations, see if the variations you came up with can be applied to only one side. If they can, then you already have the basis for some non-standard units.

## Back Issues

All of the back issues of Scaffold are still available. Thanks to the generosity of Emma, the issues can be found online at <http://www.origami4you.com> (just follow the Scaffold link at the top).

I am in the process of converting the back issues into GIF files for the benefit of the few who cannot access PDF files. In order to be fair to all of the contributors, each issue will have its pages zipped so that the issue will be complete. Therefore, those who wish to view the GIF format will need an unzipping utility (there are a lot of them and they tend to be free).

## The Models

The geometric track my mind is currently in has resulted in some more geometric models in this issue. I also created a new Cobra just before being sent diagrams for a Cobra by Jim Adams.

Cobra

This is a nice Cobra sent in by Jim Adams. It has a very pleasing look and is quite easy to fold. More of Mr. Adams's creations can be found at <http://members.aol.com/jeadams1>

Sonobe: Spear

I have been working a lot with units lately, so that is what I have been diagraming. Spear creates a pattern of straight-sided bars with a point on one end (hence the name Spear).

Spear Cube

This cube is made from 24 Sonobe: Spear units. This is one of the first times I have set out to fold a 24-unit cube in stead of the simpler 6-unit cube. I decided I really liked the look of it.

Simple Cobra

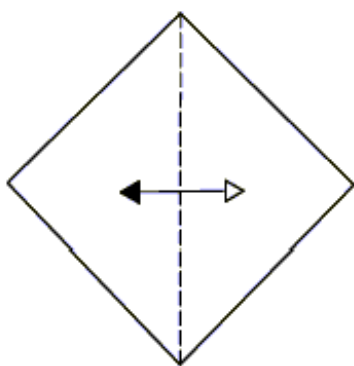
I designed this Cobra while teaching a unit on animals in conjunction with our City's Zooray For Reading program. I was planning to teach a traditional snake when I saw this one hiding in the folds.

## COBRA

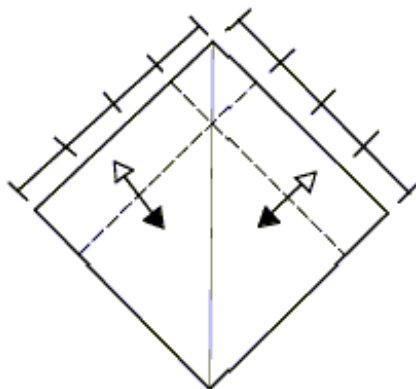
- Start with white side up.
- A 6 inch square makes a 4.5 inch long model.

Created May 2002

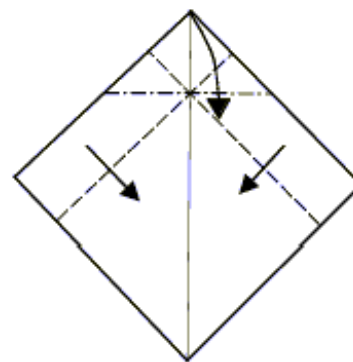
© 2002 James E. Adams, Jr.



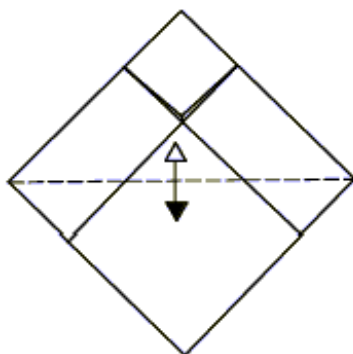
1. White side up.



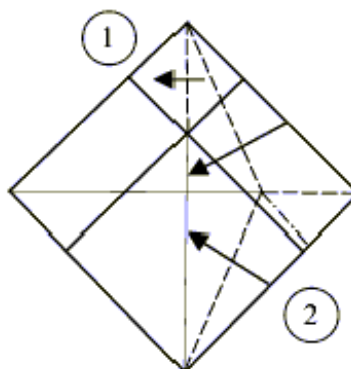
2.



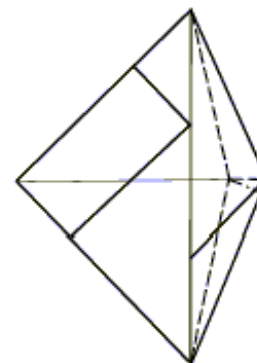
3. Form asymmetric preliminary base.



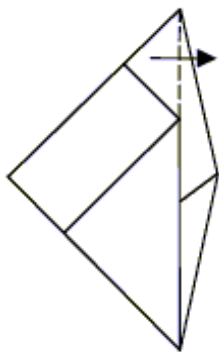
4. Crease through all layers.



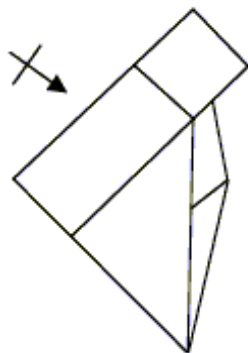
5. Fold small flap to left, then rabbit ear right side.



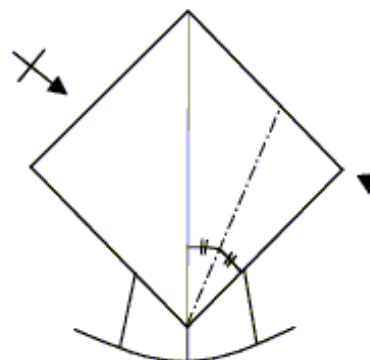
6. Rabbit ear right side again.



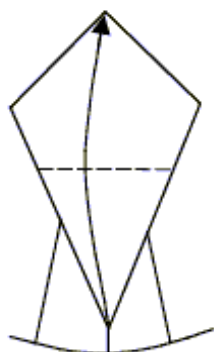
7. Fold top small flap to right.



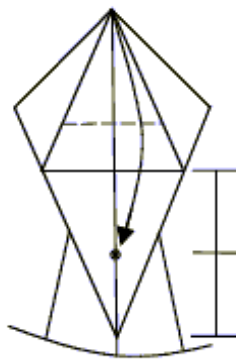
8. Repeat steps 5-7 on the left side.



9. Reverse fold on right. Repeat on the left.



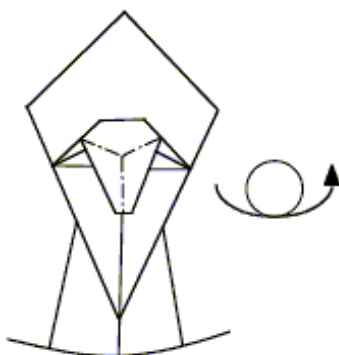
10.



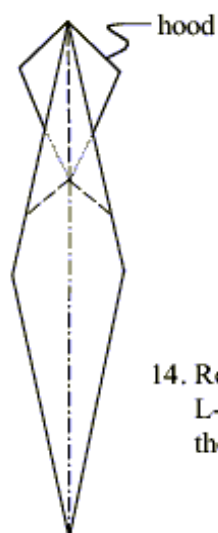
11.



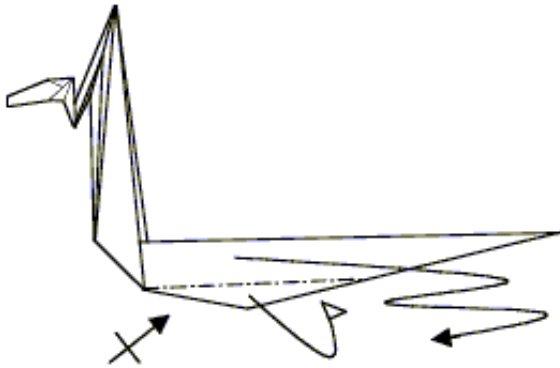
12. Mountain fold the tip of the flap behind. Reverse fold on either side of the head.



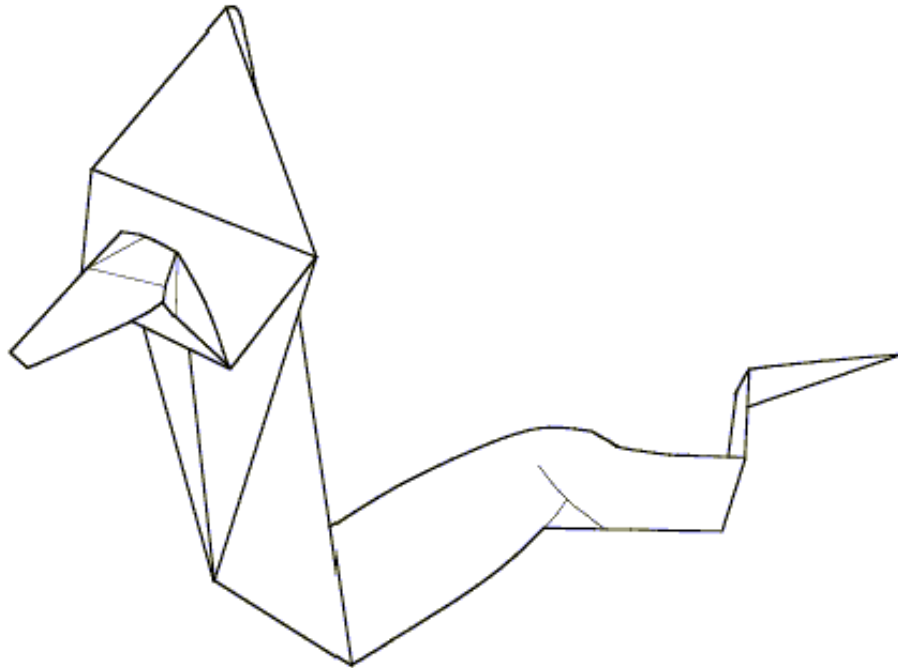
13. Shape head into 3D shape with mountain folds. (See step 15.)



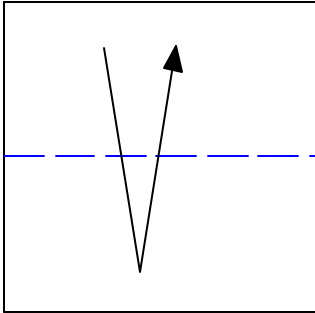
14. Reverse fold into L-shape. Do not fold the hood.



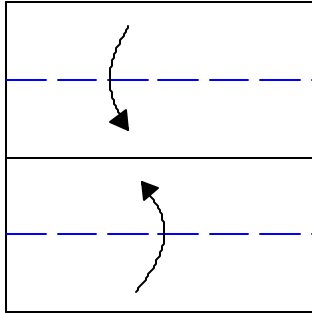
15. Flatten underbelly with mountain folds, then shape body into a serpentine shape.



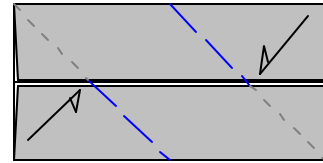
## Sonobe: Spear by Joshua Koppel



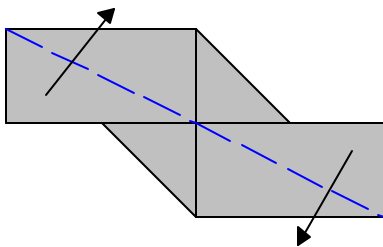
1. Fold and unfold.



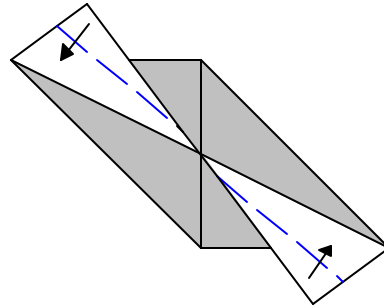
2. Fold edges to center.



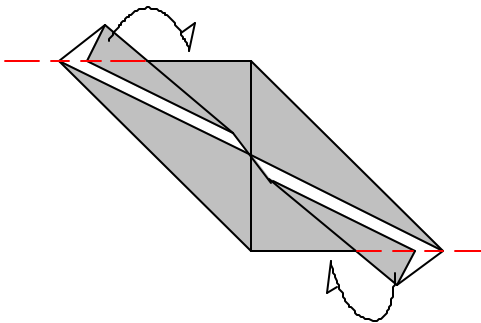
3. Fold corners under.



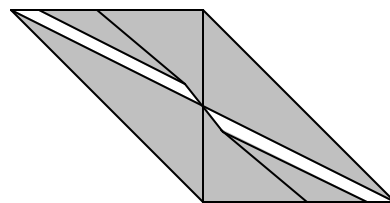
5. Fold flaps outward.



6. Fold edges parallel to color border.



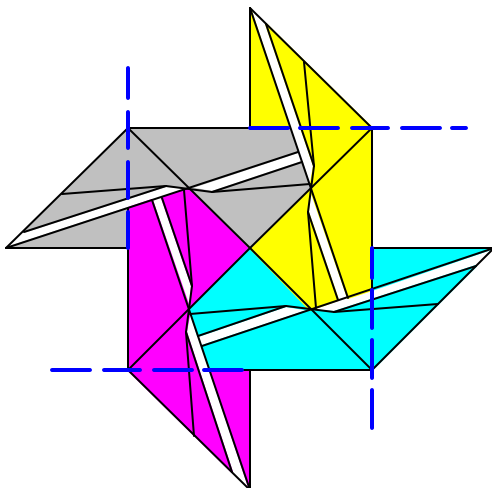
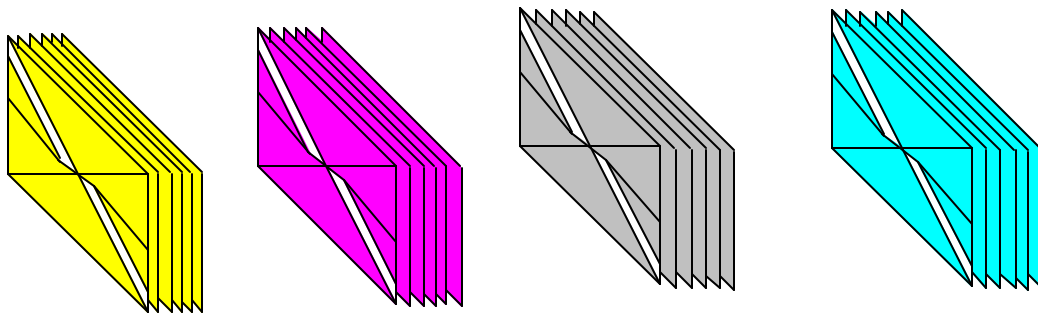
7. Fold excess behind.



The completed Spear Unit!

## Spear Cube by Joshua Koppel

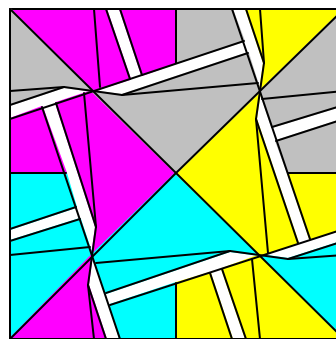
Begin with twelve (12) Sonobe Spear Units. Six (6) each of four (4) different colors.



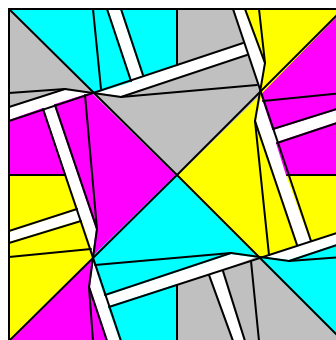
1. Assemble four units as shown to complete one of the cube's faces.

Fold the points back at a right angle (90 degrees)

Assemble all six faces in this way.



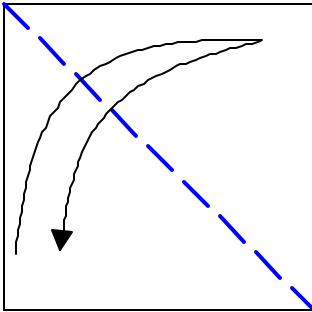
2. Assemble to six faces. Each face will now look like this.



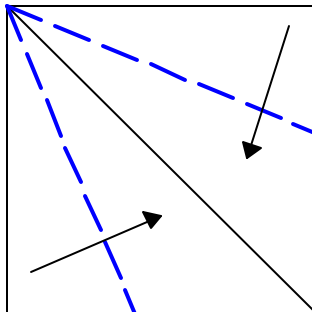
3. Here is an alternate color pattern.



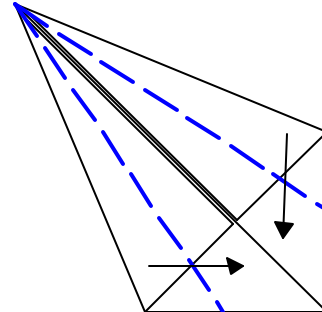
## Cobra by Joshua Koppel



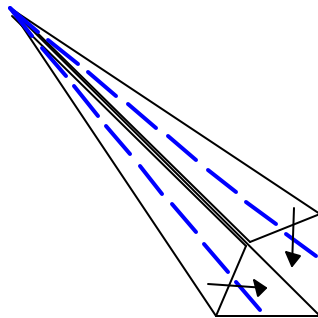
1. Fold and unfold.



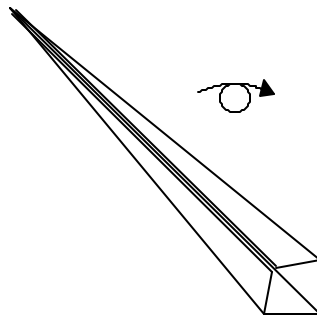
2. Fold edges to center.



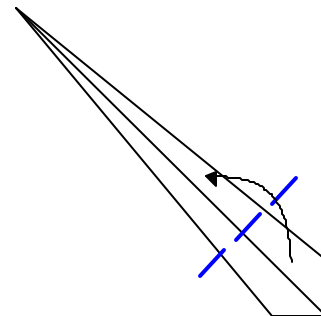
3. Fold edges to center.



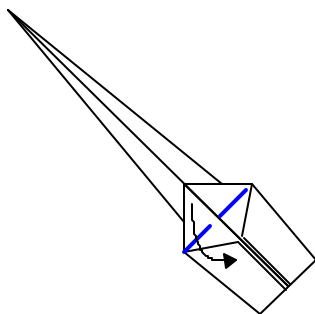
4. Fold edges to center.



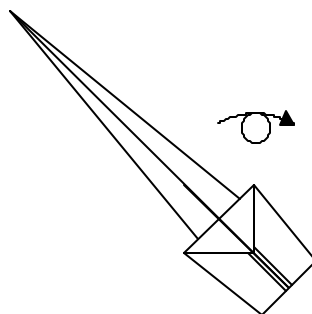
5. Turn over.



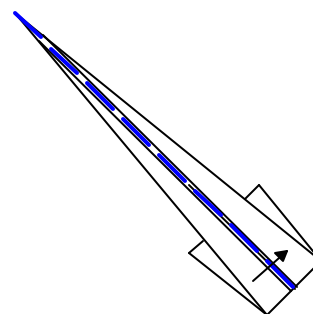
6. Fold wide end over.



7. Fold point over.



8. Turn over.

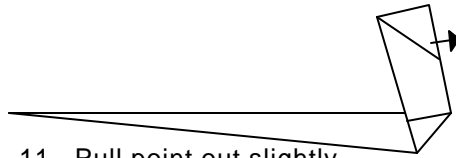


9. Fold in half.

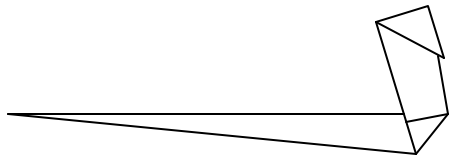
### Cobra by Joshua Koppel



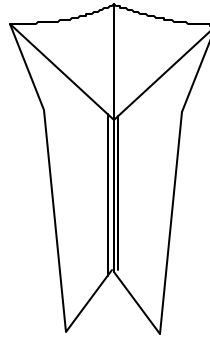
10. Swing section up.



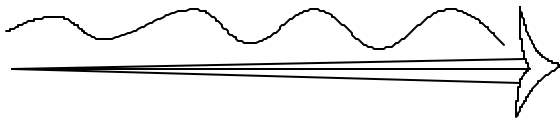
11. Pull point out slightly.



12. Spread hood and curl corners...



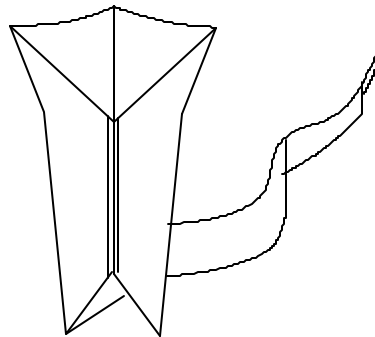
... like so.



13. Add a slither effect...



... like so.



The finished Cobra!