



#### Diagrams

EGRET
Rakesh Dhanda

HAWK Vishwa Rajesh

PEACOCK
Sampreet Manna

WAIFU Rudra Joshi

#### Photodiagrams

HIPPOCAMPUS
Shubham Mathur

#### (Crease Patterns)

DINNERTIME Rudra Joshi

SCORPION
Sampreet Manna

UMBREON Viswa Sarathi

#### Article

WHAT IS KÃGAZEE? kãgazee Group







## Models in this Issue













Hippocampus | Shubham Mathur

Dinner time | Rudra Joshi





Umbreon | Viswa Sarathi

Scorpion | Sampreet Manna

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## Note from the Editor

Thank you to all the readers who have taken interest in our magazine "Origamaze". Origami is a unique artform which blends creativity and mathematics. Anyone can enjoy origami. All you need is a piece of paper and apply some folding steps on it to create magic.

The name of the magazine is inspired from two words, "origami" and "amaze". Our magazine will present enthusiastic folders with instructions of models designed by budding Indian origamists. We hope that you will enjoy the challenge of intermediate folds along with solving crease-patterns of different difficulties that are included in this issue.

The start of this journey was only possible because of the kind contributions, stimulating ideas, support, and creative visualization of members of team Kãgazee. I would like to thank my fellow members Sampreet Manna, Rudra Joshi, Rakesh Dhanda, Vishwa Rajesh, and Viswa Sarathi for sharing their designs and diagrams. A special thanks to our member Shrijit Nair for handling marketing along with website management and my dear friend Aakash Purohit for the content ideas/review.

To know more about our team members, you can check their details provided at the end of this issue, or also available on our website "www.kagazeeindia.com".

I would also encourage other Indian origami designers to share their diagrams or crease patterns with us to get published in future issues of Origamaze. This is just the beginning and we have a long way to go together. Thank you for reading and enjoy folding to your heart's content!

- Shubham Mathur





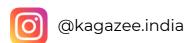
## What is Kãgazee?

Kãgazee is a group of budding Indian origami artists. We are dedicated to providing support to all the origami artists across India. Kãgazee will provide indigenous origami artists with a platform where they can communicate, learn, share ideas, or showcase their skills.

We aspire to build a community that will not only widen the horizons for our native folders but also introduce new people to this elegant artform.

With Kagazee, we will launch India's first-ever Origami magazine that will provide insightful information, diagrams, and crease patterns on a bi-yearly basis. The aim of the Kagazee magazine is to make sure we reach even those areas of our country where artists do not have proper resources. Our team of origami experts is always ready to support & assist our members to their capacity. We believe in building a community where origami, as an art, can grow in India and Indian Origamists, can flourish together.

We would love your support and contributions. If you wish to get your diagrams or crease-patterns published in future issues of Origamaze magazine, then you can reach out to us on Instagram or via Gmail. We also plan to add your folds from this issue along with other amazing origami creations in the subsequent prints. So, please tag us in your posts with the hashtag #kagazeeindia, or send them via email. The contact details are provided below:











# **Basic Folding Symbols**

----- Valley fold

··-·-· Mountain fold

Note: In case of crease-patterns, mountain creases are shown by red lines and valley creases by blue lines.

Repeat once

Repeat twice

Pleat

Crimp

Turn Over

Point of view

Fold

Fold and Unfold

Fold behind

Pull out

Open and Squash

Blow up

Rotate

Sink

Zoom in

Zoom out

### Hawk

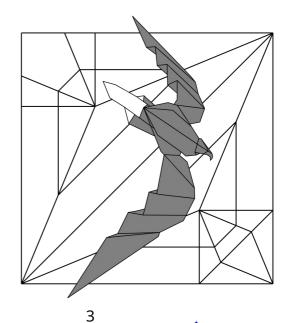
Designed by Vishwa Rajesh & Diagrammed by Rudra Joshi 2022

Recommended Size : 15-20 cm<sup>2</sup>

Paper: Kami, Tissue Foil,

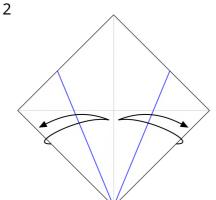
Sandwich Tissue, Printer Paper

Mountain: Valley: Optional Step: \*



1

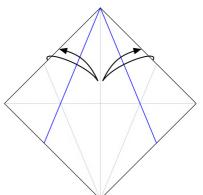
White-Side Up, fold and unfold along the diagonals



Fold angle bisectors and unfold

5

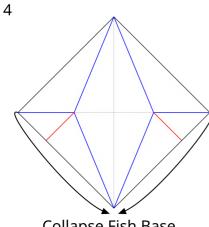
8



Fold angle bisectors on other end and unfold

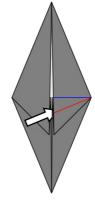
6

9

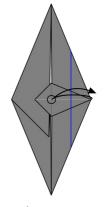


Collapse Fish Base

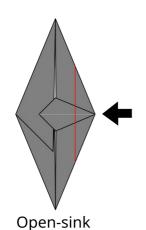
7



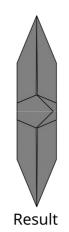
Squash one of the triangles

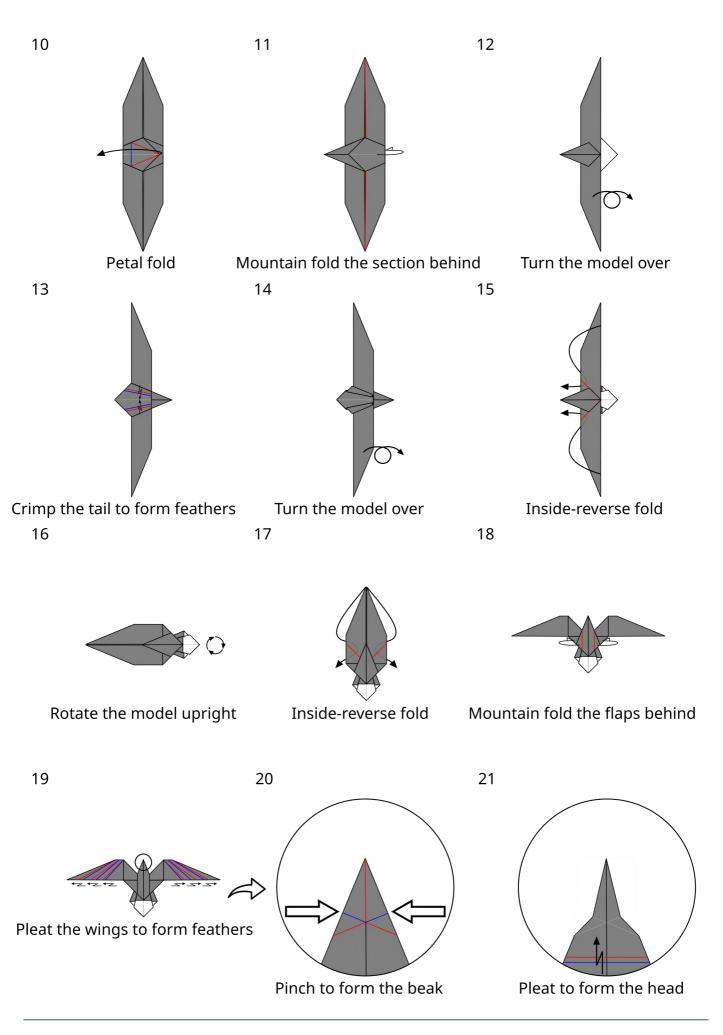


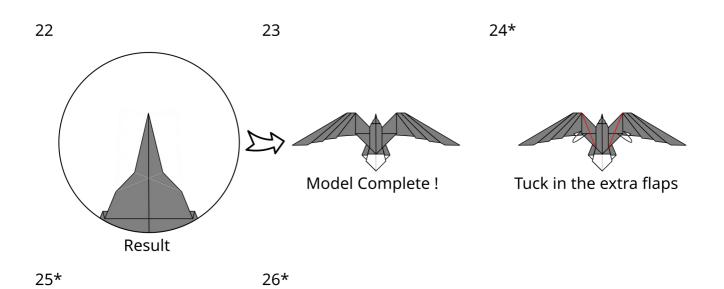
Fold to the centre and unfold



Repeat 5-7 on other side





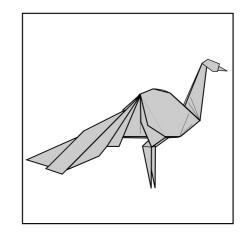




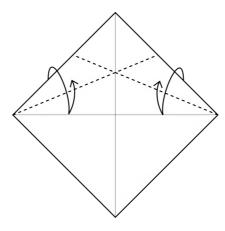


#### Peacock V1

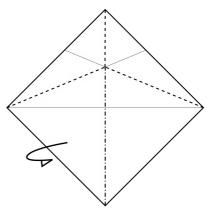
Designed and diagrammed by Sampreet Manna Difficulty: Simple Recommended Size: 15cm X15cm This can be folded from any type of paper. Youtube: Sampreet Manna Origami



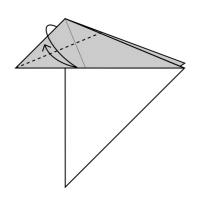
1. White Side up; Fold diagonally in half both sides & Unfold.



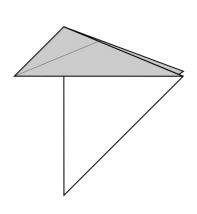
2. Fold two angle bisectors.



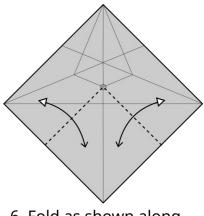
3. Collapse as shown.



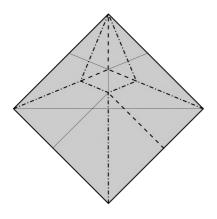
4. Fold and Unfold.



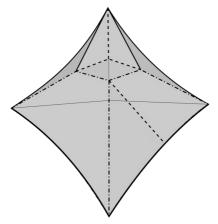
5. Unfold everything.



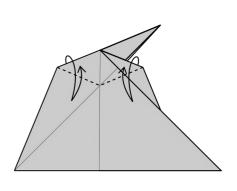
6. Fold as shown along the circled point. After folding the Edge should be overlap with itself, then Unfold.



7. Collapse as shown.

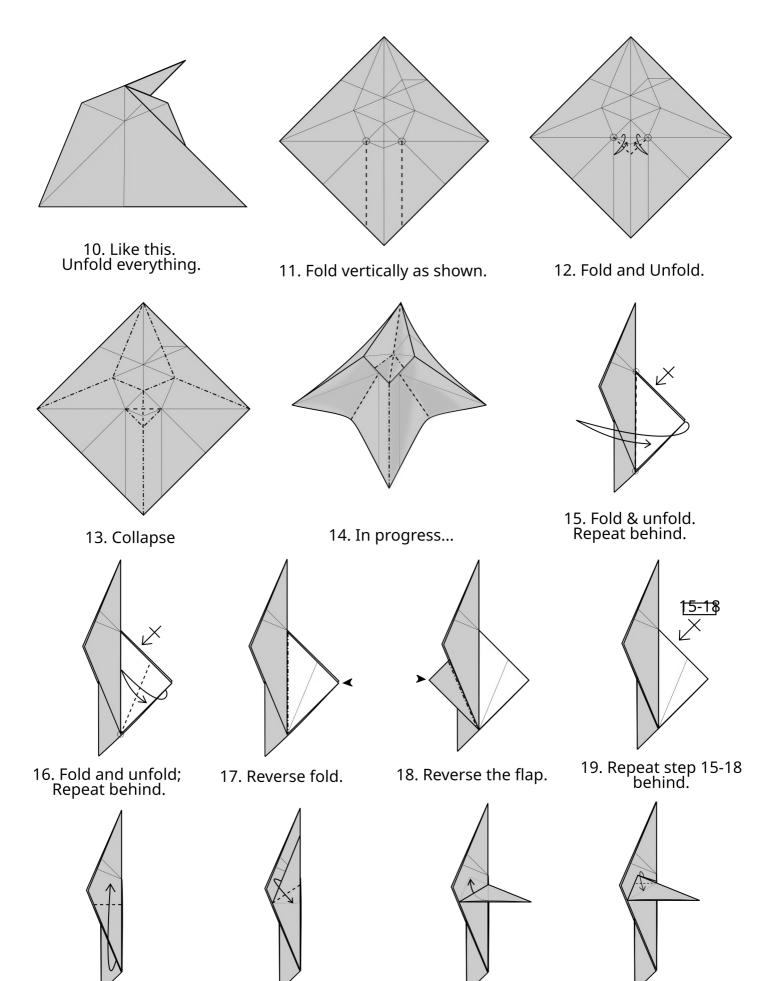


8. Continue...



9. Fold as shown.





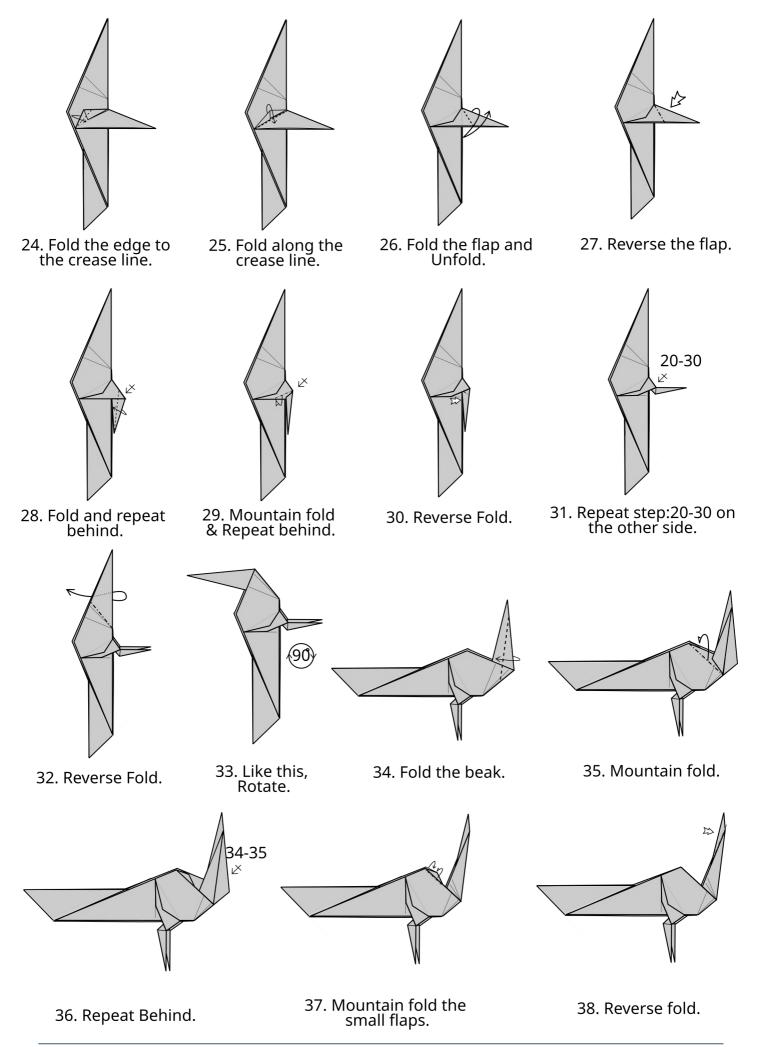
20. Fold the flap up.

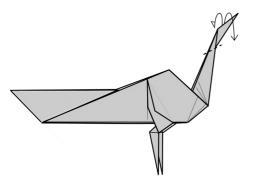
21. Fold the flap edge to the crease line.

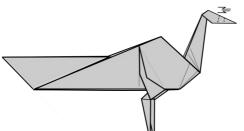
22. Release the paper from inside

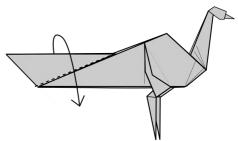
23. Fold down to the crease line.







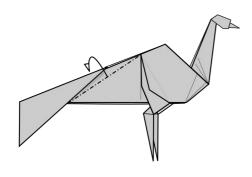


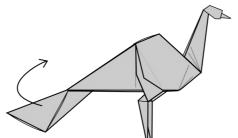


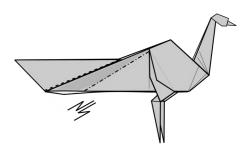
39. Outside Reverse Fold

40. Crimp Fold.

41. Fold the flap down.



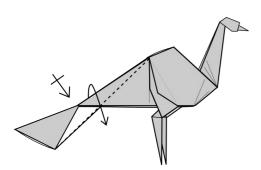


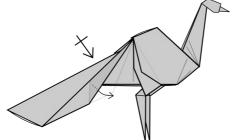


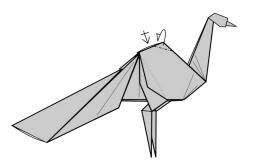
42. Mountain Fold as shown.

43. Unfold to step 41.

44. Crimp Fold.



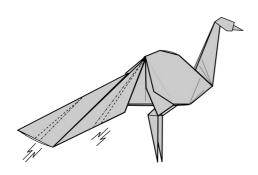


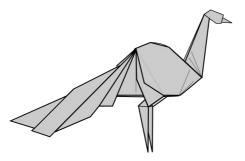


45. Fold down and Repeat Behind.

46. Release the inner paper and Repeat behind.

47. Mountain fold and repeat behind.





48. Make more crimps.

49. Model completed.



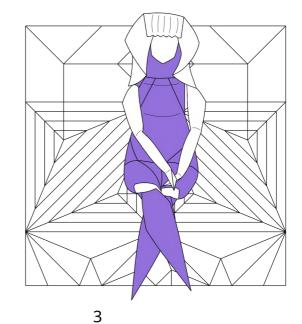
### Waifu

Designed & Diagrammed by Rudra Joshi 2021

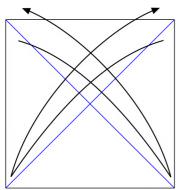
Recommended Size :  $25-30 \text{ cm}^2$ 

Paper: Duo-Color Kami, Double-Tissue

Mountain: Valley:



1

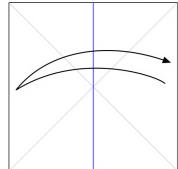


White-Side Up. Fold and unfold diagonally

2

5

8

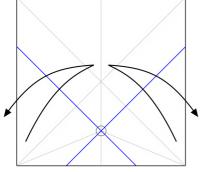


Fold in half and unfold

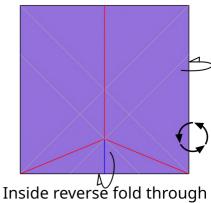
Fold angle bisectors to the middle line and unfold 6

4

7



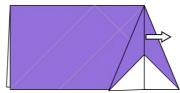
Fold through the intersection Turn the paper over as shown



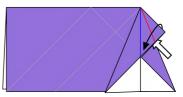
pre-creased lines and rotate



Fold one layer to the left

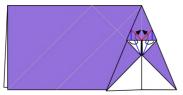


Pull out the hidden flap

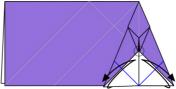


Squash as shown

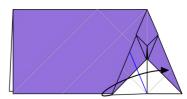
10 11 12



Inside reverse fold as shown

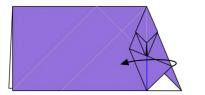


Fold and unfold to the marked point



Fold an angle bisector as shown

13 14 15



Fold back along the precreased line

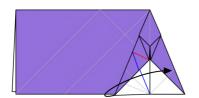


Fold an angle bisector as shown



Unfold to 11

16 17 18



Inside reverse fold as shown



Valley fold as shown

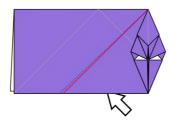


Valley fold to the middle line

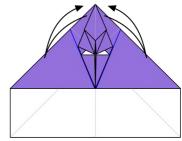
19 20 21



Repeat 12-18 on the other side



Squash along the pre-creased lines

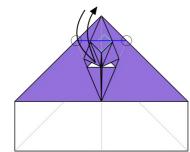


Fold and unfold along the lines shown

22 23 24

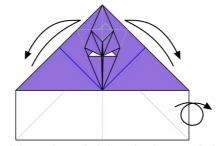
29

32

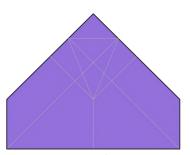


Fold and unfold along the marked points

25

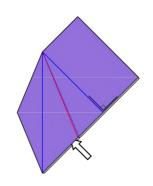


Fold and unfold in halves of the sides till the centre and turn the model over 26 27

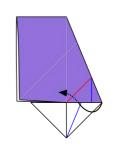


Result

Petal fold along the precreased lines as shown 28



Squash as as shown

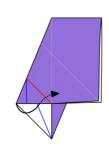


Inside reverse fold

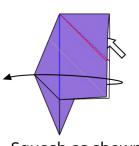
30

33

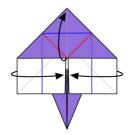
Fold the flap to right



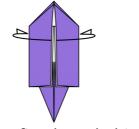
Inside reverse fold



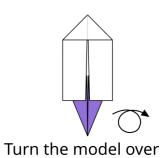
Squash as shown



Petal fold as shown

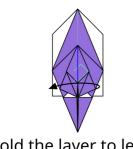


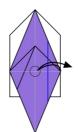
Wrap the first layer behind





34 35 36





Fold the layer to left

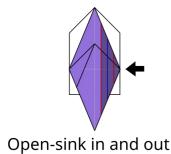
Fold to the centre and unfold

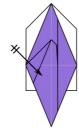
Divide the sections made in previous step into halves and unfold

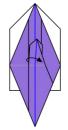
37

38

39







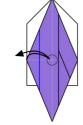
Repeat 34-37 on the other side

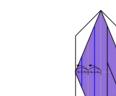
Fold the layer to right

40

43

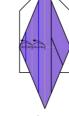
41

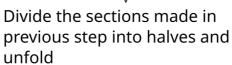






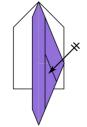
Fold to the centre and unfold

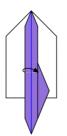


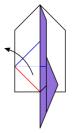




44

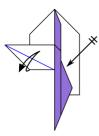




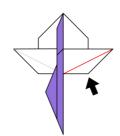


Repeat 39-42 on the other Fold one layer to the right side

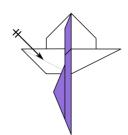
Swivel fold as shown



Fold and unfold as shown.Repeat 44-46 on the other side



Closed sink as shown

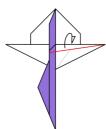


Repeat 47 on the other side

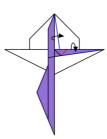
49

50

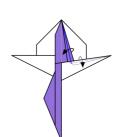
51



Mountain fold inside with reference to the sink made in 47



Swivel along the newly formed boundary

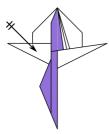


Swivel again as shown

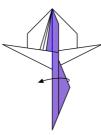
52

53

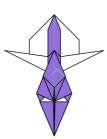
54



Repeat 49-51 on the other side



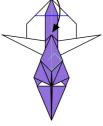
Fold layers to left to reach the middle



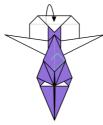
Result

55

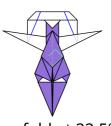
56



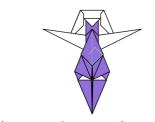
Valley fold arbiitrarily as shown, there is no solid reference

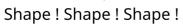


Wrap the layers in the back to the front



Valley fold at 22.5°





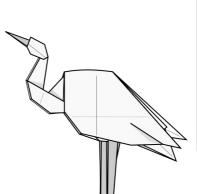


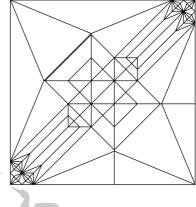
Model Complete! Pose as you like!

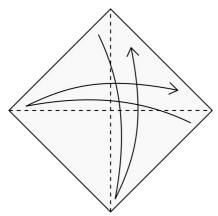
## Egret

Designed by Rakesh Dhanda (2022)
Diagrammed by Sampreet Manna (2022)
Difficulty: Intermediate

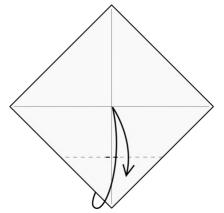
Recommended Paper size: 25cm x 25cm



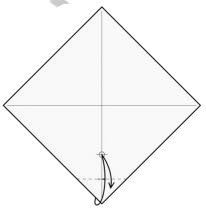




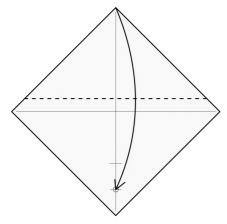
1. White side up, Fold diagonally in half both sides & unfold.



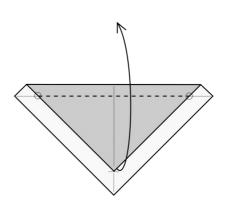
2. Fold to the intersection and make a pinch mark.



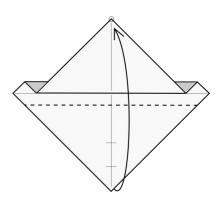
3. Fold to the pinch mark and unfold.



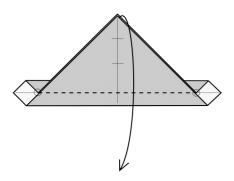
4. Fold to the circled mark.



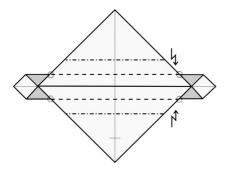
5. Fold along two circled marks.



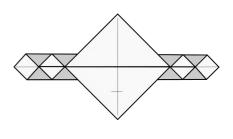
6. Fold the bottom corner up.



7. Fold down along the circled points.

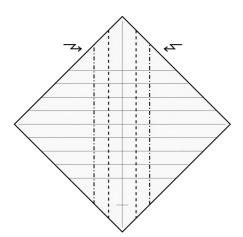


8. Repeat one pleat on each of the side.

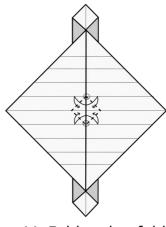


9. Unfold everything.

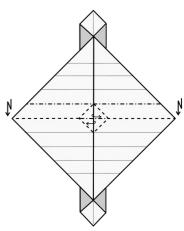




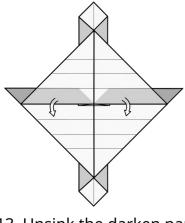
10. Make one set of pleat vertically.



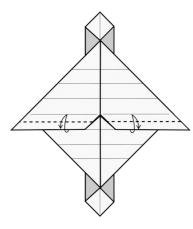
11. Fold and unfold as shown.



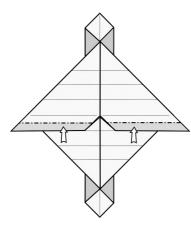
12. Remake a pleat by reversing the creases made in step11.



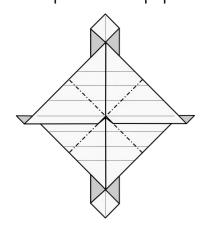
13. Unsink the darken part and pull out the paper.



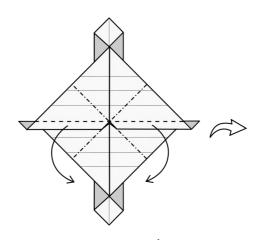
14. Fold and Unfold.



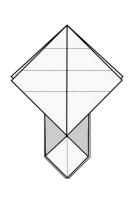
15. Open-sink.



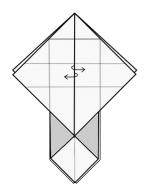
16. Mountain fold and unfold.



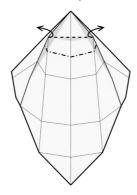
17. Form a square base.



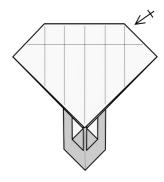
18. Like this.



19. Open up the pocket.

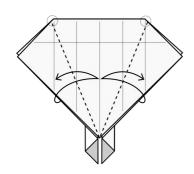


20. Pull the paper and make the pleat then squash the paper.

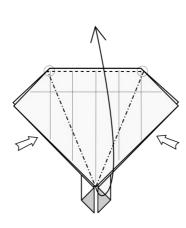


21. Like this, Repeat behind.

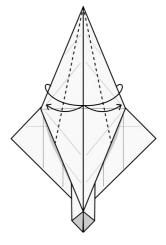




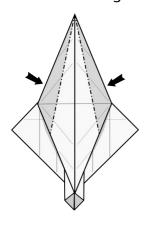
22. Fold and unfold. Note: The creases in the circle is not coincide together.



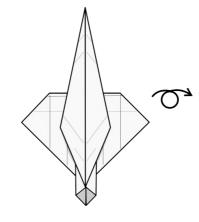
23. Petal Fold.



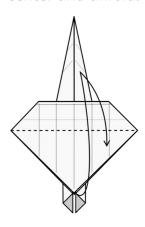
24. Fold the edges to the center and unfold.



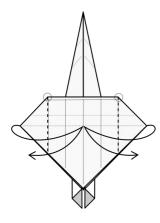
25. Closed sink.



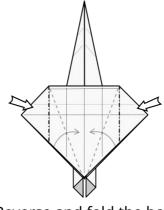
26. Like this; Turn over.



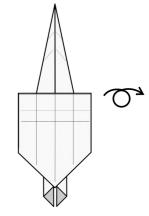
27. Fold and unfold.



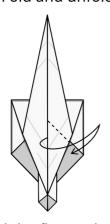
28. Fold and unfold.



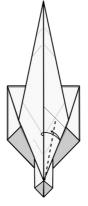
29. Reverse and fold the bottom edge to te middle.



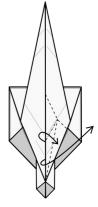
30. Like this; Turn over.



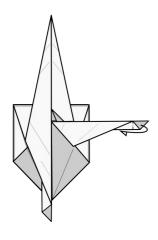
31. Fold the flap and unfold.



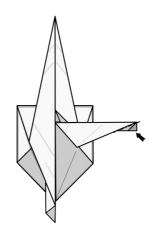
32. Fold and unfold.



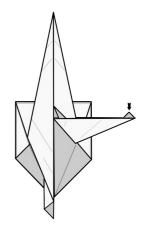
33. Rabbit ear fold and raise the flap.



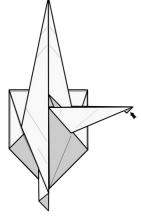
34. Mountain fold between the layers.



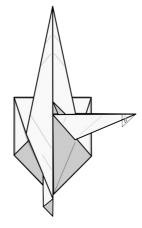
35. two Reverse folds.



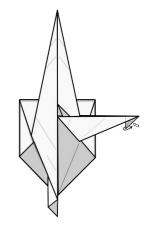
36. Reverse folds.



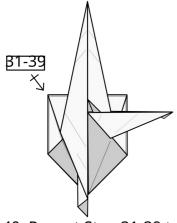
37. Reverse folds.



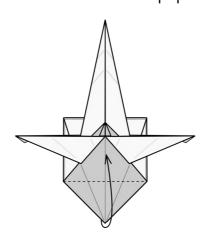
38. Pull out the inner paper.



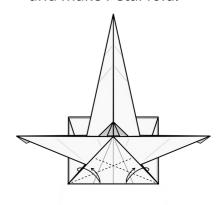
39. Squash the flap and make Petal fold.



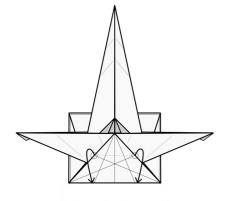
40. Repeat Step 31-39 to the left side.



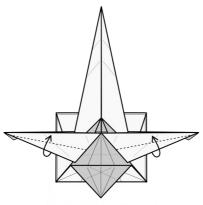
41. Fold the flap up.



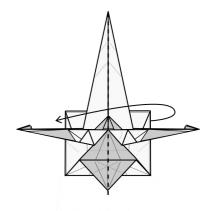
42. Angle bisectors.



43. Fold the two circles to the edge.

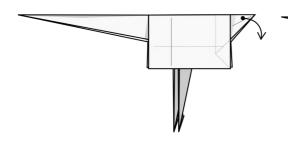


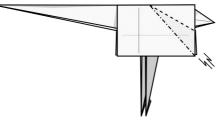
44. Fold the legs flaps in half.

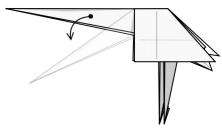


45. Fold the whole model.





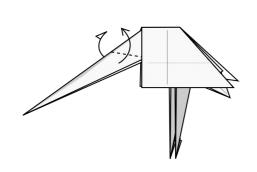


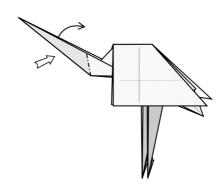


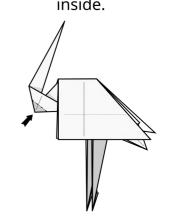
46. Bend the tail flap.







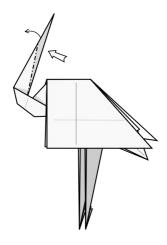


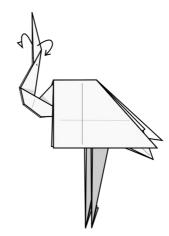


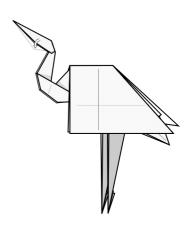
49. Outside reverse fold.

50. Reverse as shown.

51. Open sink fold.



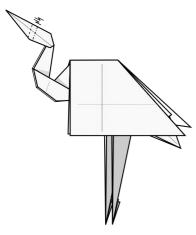


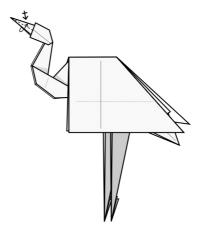


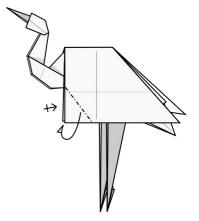
52. Reverse as shown.

53. Outside reverse fold.

54. Pull out inner paper.



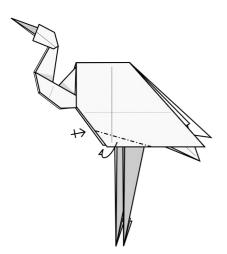




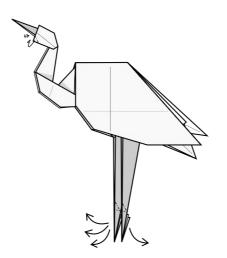
55. Crimp fold.

56. Fold the edge up by squashing the flap inside.

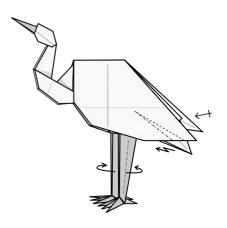
57. Mountain fold, Repeat Behind.



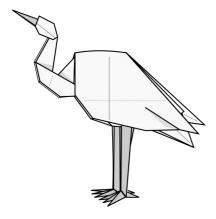
58. Fold behind.



59. Mountain fold as shown in the face part and repeat back. Also, Spread the fingers.



60. Shape the Model. Narrow the legs and add pleat on wings. (You can add multiple pleats as well.)



61. Model Completed.

## Hippocampus

Design & diagram © 2021 Shubham Mathur (India)

og @shubham\_origami\_world

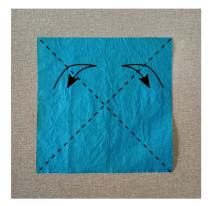
Recommended Paper: 20x20cm bicolor paper

preferably a Tissue Foil Difficulty: Intermediate

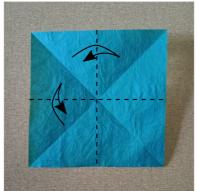
Notes: The base is easy to fold but the beauty of this model will mostly depend on the shaping

done by folder.

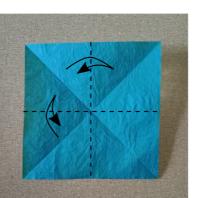
---- Mountain Fold – Valley Fold



1. Fold and unfold diagonals

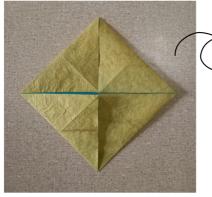


2. Fold and unfold in halves

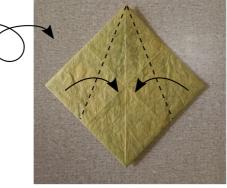




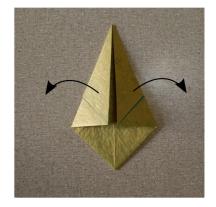
3. Fold all four corners to the center point



4. Turn the model over



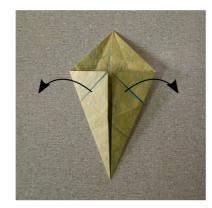
5. Fold the upper edges to center line



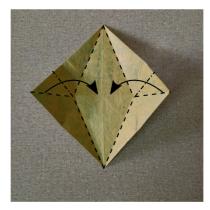
6. Unfold



7. Fold the lower edges to center line

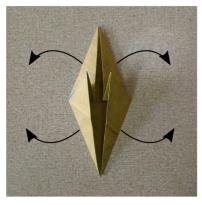


8. Unfold

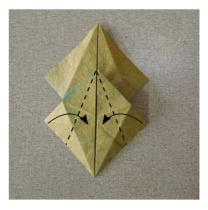


9. Rabbit-ear fold using these creases

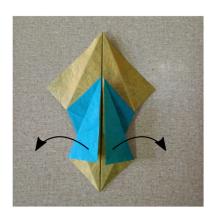




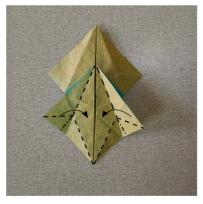
10. Bring up the paper from behind



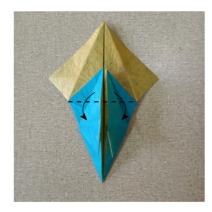
11. Fold the edges to center line



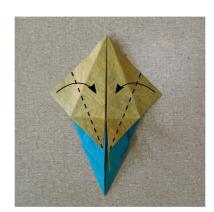
12. Unfold



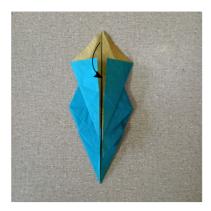
13. Rabbit-ear fold on both sides



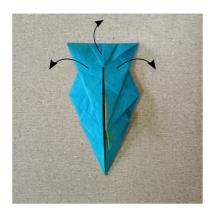
14. Fold down the flaps



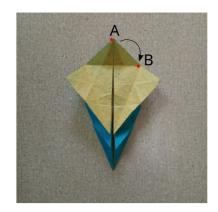
15. Fold the edges to center line



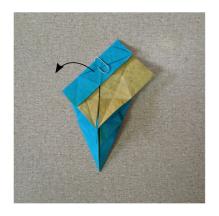
16. Fold the upper portion down



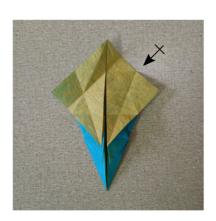
17. Unfold



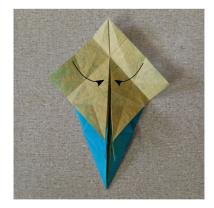
18. Fold such that the points A and B meet



19. Unfold



20. Repeat steps 18-19 on the other side



21. Fold both edges down using these creases





21a. Step-21 in progress



21b. Step-21 about to complete



22. Fold one flap to left (no need to flatten)



23. Fold the edge to center line



24. Unfold



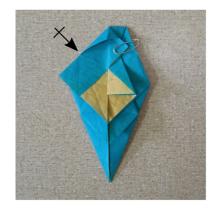
25. Inside-reverse fold



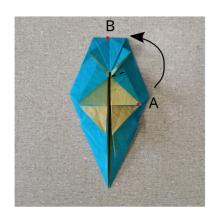
26. Fold the flap back as it was in step-22



27. Fold one flap to right (no need to flatten)



28. Repeat steps 23-26 on the other side



29. Take point A up to point B using the crease

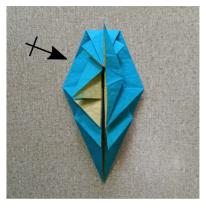


29a. Step 29 in process



29b. See the expected result in next step





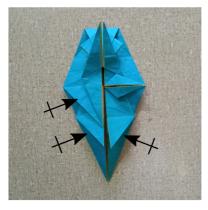
30. Repeat step-29 on the other side



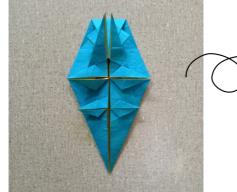
31. Squash-fold



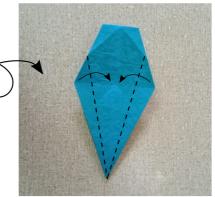
32. Petal-fold



33. Repeat steps 31-32 for 3 remaining flaps



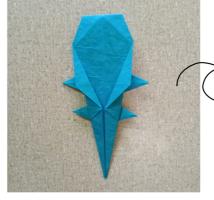
34. Turn the model over



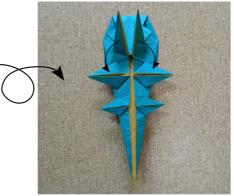
35. Fold the edges to center line



36. Fold using these points as reference



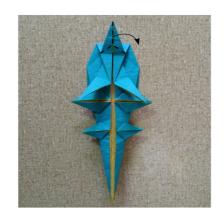
37. Turn the model over



38. Fold these falps down



39. Petal-fold



40. Rabbit-ear fold



41. Mountain fold the model in half vertically





41a. Now we will focus on head



42. Pull out the loose paper(see next step)



43. Squash-fold as shown



44. Fold the tip down



45. Squash-fold the eye



46. Outside-reverse fold for nose



47. Fold the flap up



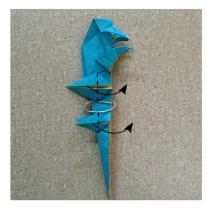
48. Pleat-fold for shaping fore-limbs



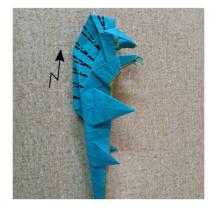
49. Inside reverse-fold (include color change)



50. Repeat steps 42-49 on the other side

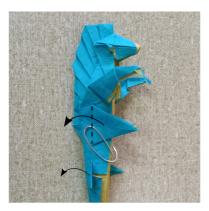


51. Fold these flaps to right

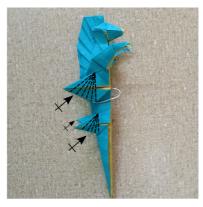


52. Pleat-folds to shape the mane(on both sides)





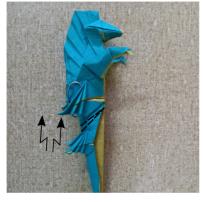
53. Fold all four fins to left



54. Fan fold the fin and repeat for other three



55. (Optional) fold inside to get little color change



56. Crimp to shape the tail



57. Crimp once more below



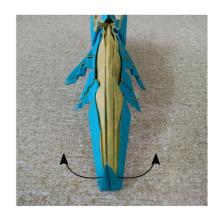
57a. Result, you can shape accordingly



58. Front-view of model, focus on the tail tip



59. Fold the tip up (no reference point)



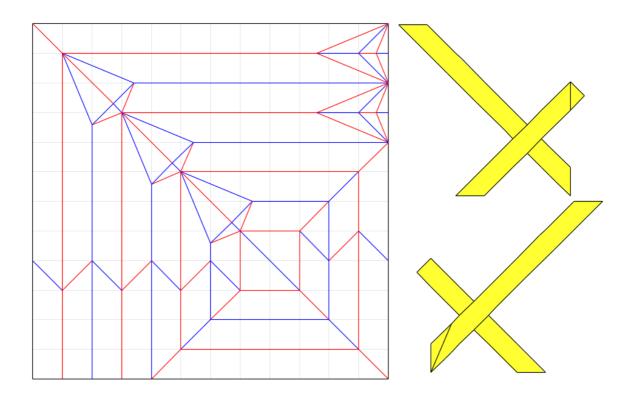
60. Spread all the layers of paper under this fold



60a. The result should look like this



61. Finish! Shape as you prefer.



## Dinnertime (Crease Pattern)

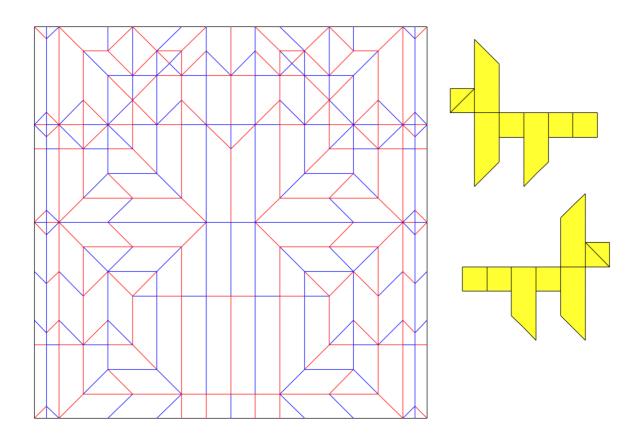
Designed by: Rudra Joshi

Level: Easy

Paper: Kami/ Double tissue

Recommended size: 25x25 cm





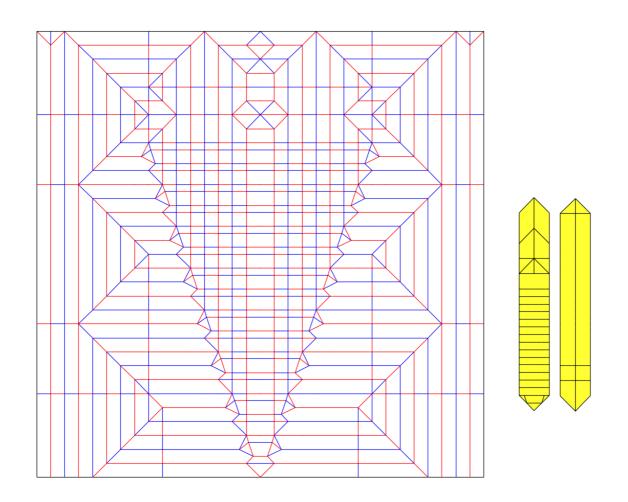
#### Umbreon (Crease Pattern)

Designed by: Viswa Sarathi

Level: Intermediate

Paper: Double tissue/ Tissue foil Recommended size: 30x30 cm





### Scorpion (Crease Pattern)

Designed by: Sampreet Manna

Level: Complex

Paper: Double tissue/ Single tissue

Recommended size: 35x35 cm





## About team



#### Shubham Mathur

- o @shubham\_origami\_world
- Shubham Origami World

Shubham Mathur is a Computer Science Engineer pursing Masters and a lecturer based in Jodhpur, Rajasthan.

He has been doing origami for more than 13 years and most of his designs are based on 22.5° figurative origami models incorporated with patterns as well as color-changes from paper folding. He has taught origami in various online workshops to national as well as international participants and he wants to make more people learn and take interest in this wonderful art.



#### Sampreet Manna

- (©) @sampreetmanna
- Sampreet Manna Origami

Sampreet Manna is a self-taught origami artist/designer, biotechnology-genetic engineering student, still life photographer, former table-tennis player, and sketch artist from Kolkata. He became enthusiastic with origami at the age of 12. He likes to discover the science & mathematics behind origami. He focuses on designing Circle packed models with 22.5° and box-pleated models with specialization in designing animal figures. He believes that Origami has the power to change the future in terms of applied science. His vision is to showcase vast possibilities of origami to India and world.



Rudra Joshi

👩 @eterno\_ori

Rudra Joshi is a self taught origami designer, high school student, aspiring automobile designer, graphic designer & photographer from Ahmedabad, Gujarat.

His designs are mostly based on 22.5° geometry and include color-changes as well. His motive is to create humanoid models with 22.5° design method, which are rare as compared to its box-pleated counterpart. His interest for origami was awakened at the age of 5 and he received great motivation to finesse his skills. Since then he is been practicing the artform and has expanded his skillset by diagramming Origami instructions.



#### Rakesh Dhanda



othe\_curious\_ra.ke\_\_origami

Rakesh Dhanda is a self-taught origami artist/designer and web designer from Haryana. He got to know about origami in 2018 and started designing origami models in 2020. He is proficient in designing complex box-pleated models along with 22.5° models including colorchanges. He wants to push his boundaries by designing ultra-complex models.



Shrijit Nair 🔘 @shrijitnair.origami

Shrijit Nair is a self-taught paper artist from Kerala who lives in Dubai. He works as an HR professional, blogger, corporate trainer, and creative visualizer.

As a child, he became interested in paper crafts and origami. Shrijit continued to seek out artistic outlets as an adult in order to rekindle his creativity. By investigating and researching new areas of folding, he was able to rekindle his childhood love of paper and get a better understanding for the beauty of origami. He enjoys origami and utilizes it to help youngsters and businesses improve their creative thinking skills.



Vishwa Rajesh



@ v\_i\_s\_h\_w\_a\_\_r

Vishwa R is an Engineering student, origami artist, graphic designer and animator from Kerala. His passion for paper folding started from a young age and started designing shortly afterwards. He focuses mainly on box-pleated origami models and has an inclination towards color-changes. His designs primarily consist of abstract human figures that are completely from his imagination & Insects are also his strong suite.



Viswa Sarathi



🔘 @vs.origami

Viswa Sarathi is a high school student from Tamil Nadu. He aspires to be a mechanical engineer and sculptor.

His interest for Origami started at the age of 7 and he is practicing the art form ever since. He started to design origami models at the age of 14 and specializes in incorporating clever use of level-shifters and unaxial box-pleating to create unique designs.



