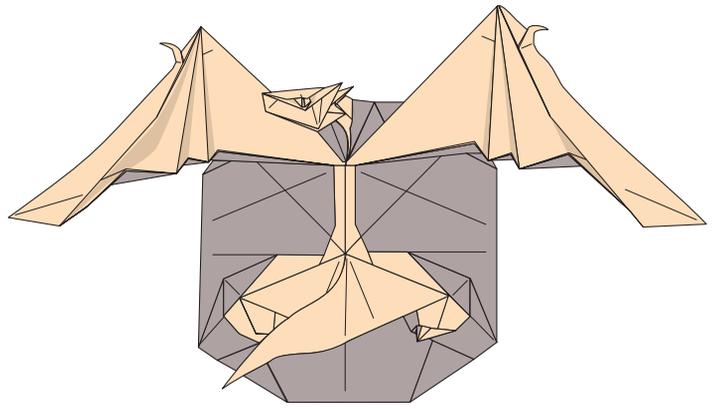


魔法帽

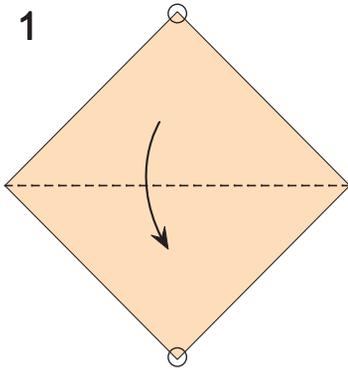
The Magic Hat

Designed by Yuankai Zhang, 2022/10
Diagrammed by Yuankai Zhang, 2023/06

Recommended paper:
Thin, duo colour
40x40 cm

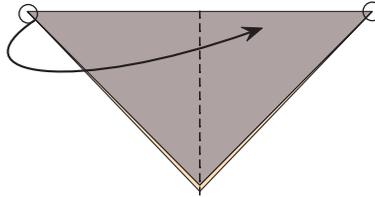


1



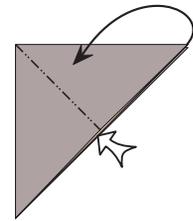
Valley fold

2



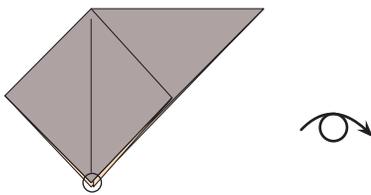
Fold as indicated

3



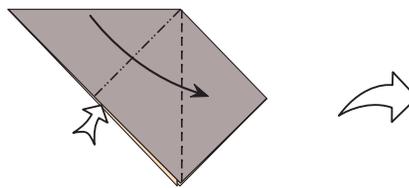
open and squash

4



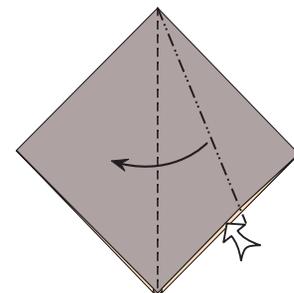
...the result

5



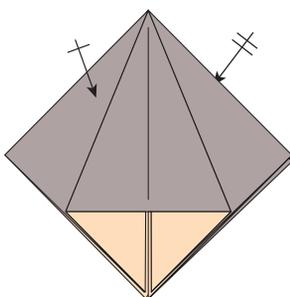
open and squash

6



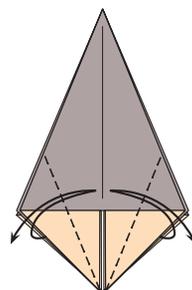
open and squash

7



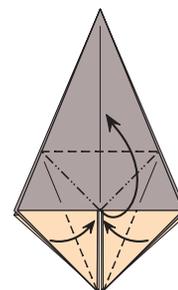
repeat step 6 for other flaps
ensure layers are symmetrical

8



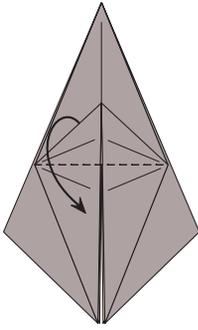
precrease

9



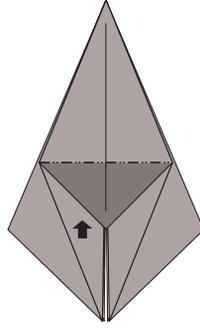
petal fold

10



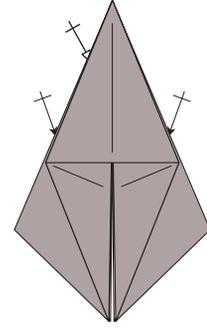
Valley fold

11



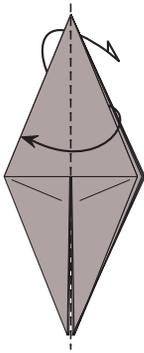
open sink

12



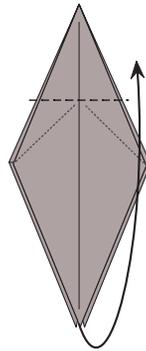
repeat steps 9-11 for other flaps
ensure layers are evenly distributed

13



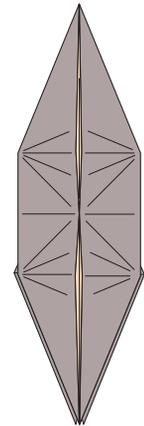
fold 1 flap at top/back

14



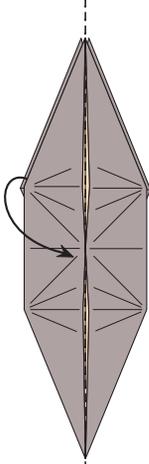
open and squash inside

15



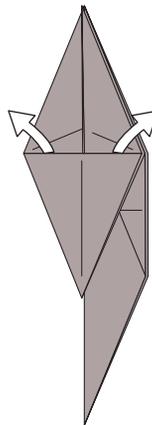
...the result

16



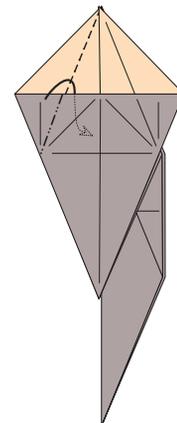
fold two flaps

17



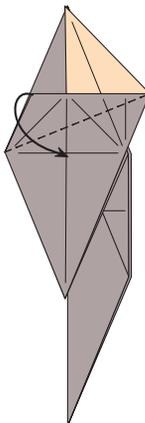
pull paper out

18



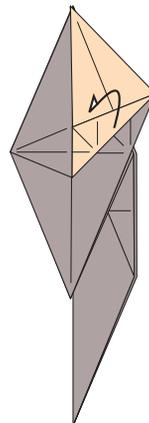
inside-reverse fold

19



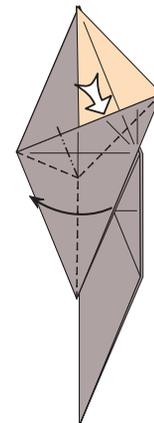
Valley fold

20



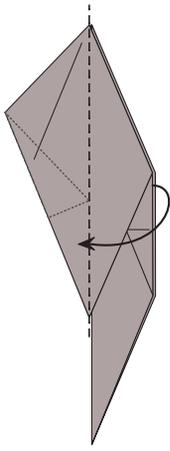
wrap top layer behind

21



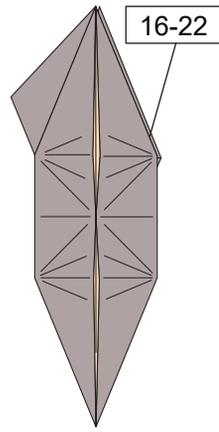
collapse

22



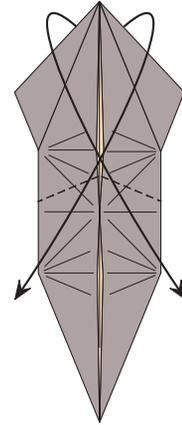
adjust 1 layer

23



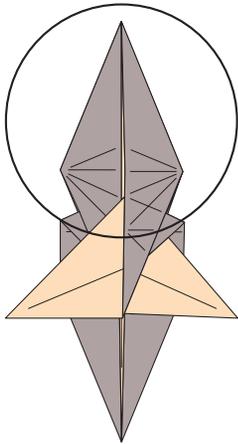
repeat steps 16-22 on this side

24

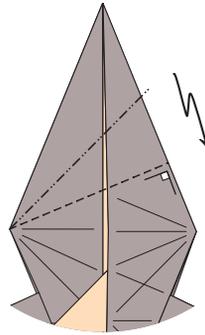


fold down top flaps

25

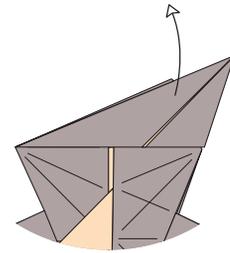


26



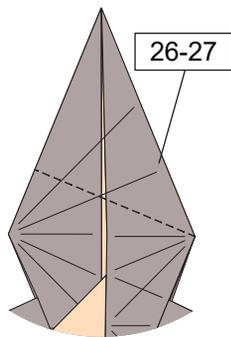
pleat down

27



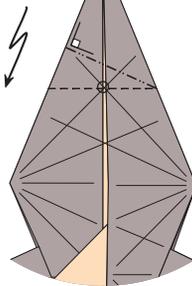
release

28



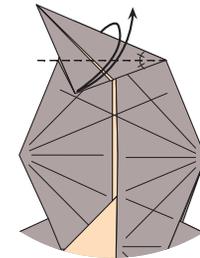
repeat steps 26-27 on this side

29



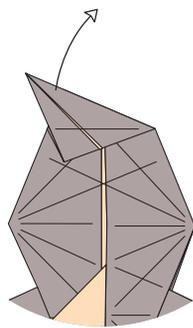
pleat down

30



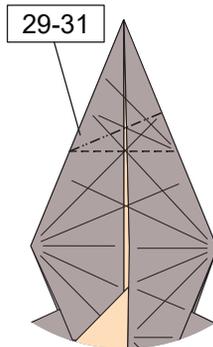
precrease

31



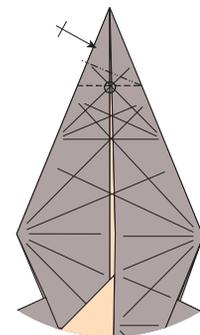
release

32



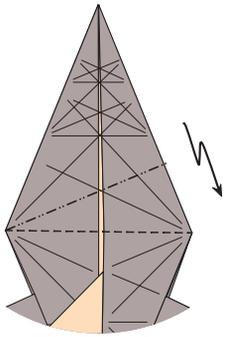
repeat steps 29-31 on this side

33



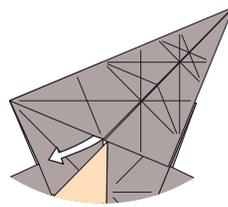
precrease as steps 29 twice

34



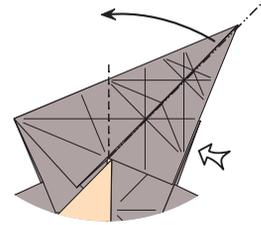
pleat down

35



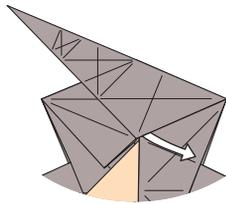
pull paper out

36



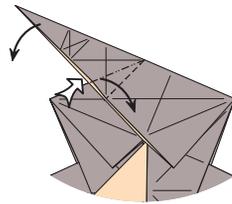
swivel the top flap and squash

37



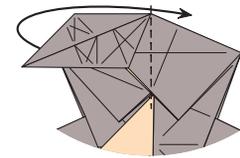
pull paper out

38



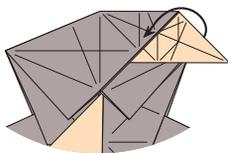
open top layer and squash

39



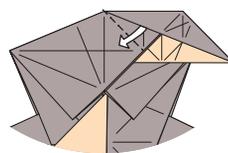
fold top flap to the right

40



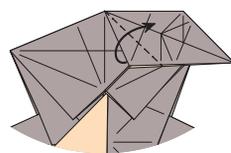
wrap back layer around

41



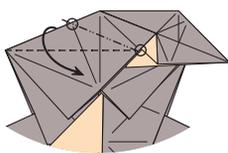
pull paper out

42



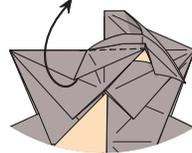
Valley fold top flap

43



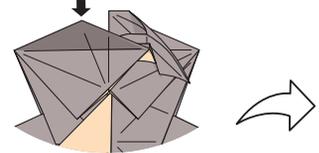
pleat down; model would not lie flat

44



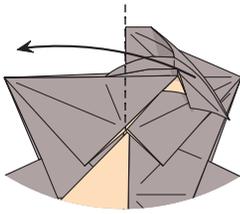
fold top flap up

45



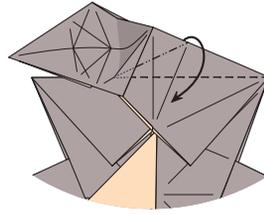
closed sink

46



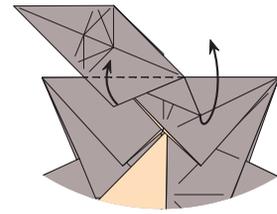
fold top flap to the left

47



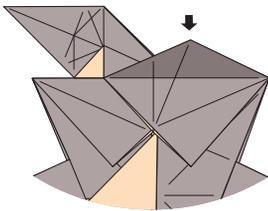
pleat down and flatten

48



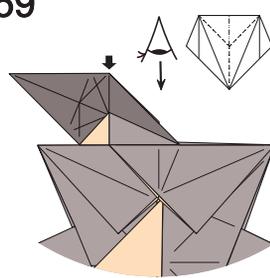
fold two flaps up

49



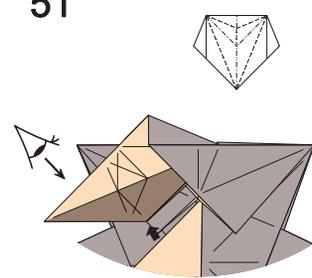
closed sink

50



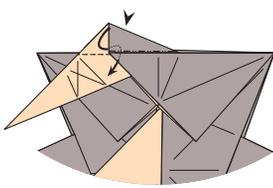
slightly raise the flap for open sink

51



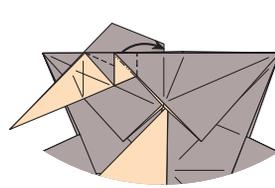
slightly raise the flap for open sink

52



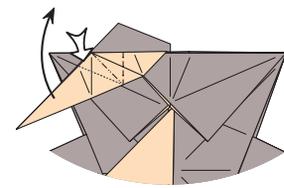
inside-reverse fold

53



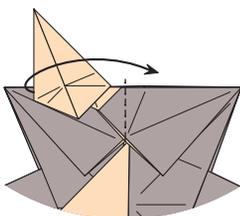
swivel and squash

54



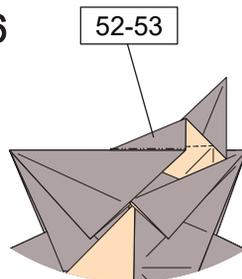
open and squash

55



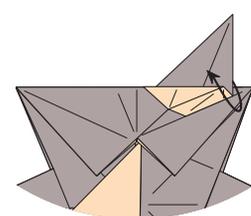
fold top flap to the right

56



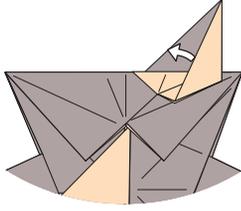
repeat steps 52-53

57



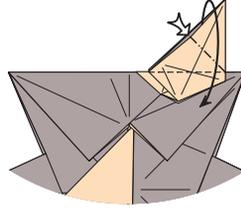
wrap back layer to the front

58



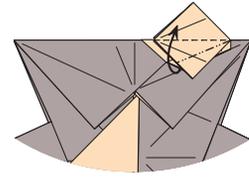
pull paper out

59



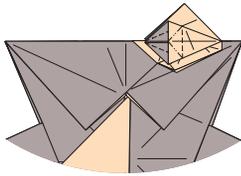
open and squash

60



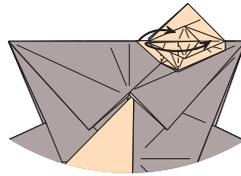
open and squash

61



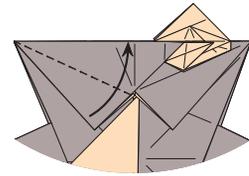
repeat steps 8-9

62



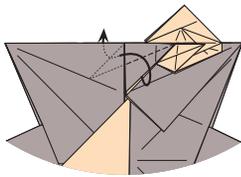
fold two flaps to the right

63



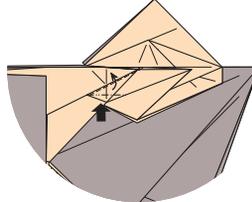
Valley fold 1 flap

64



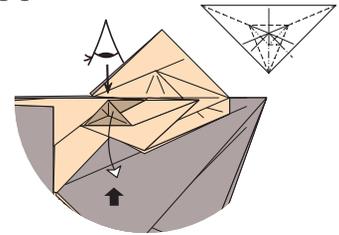
inside-reverse fold

65



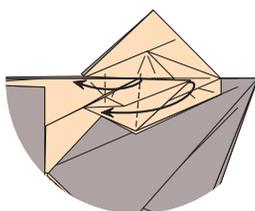
spread sink

66



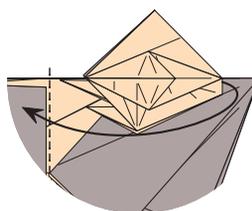
slightly release the layers
open sink the shaded area

67



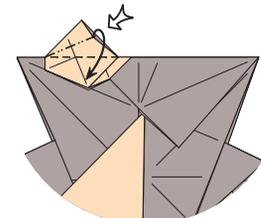
fold two flaps to the left

68



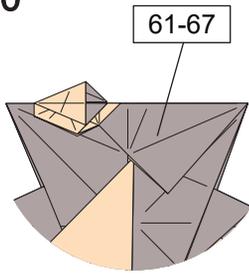
fold entire head to the left

69



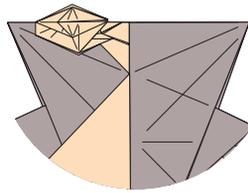
open and squash

70



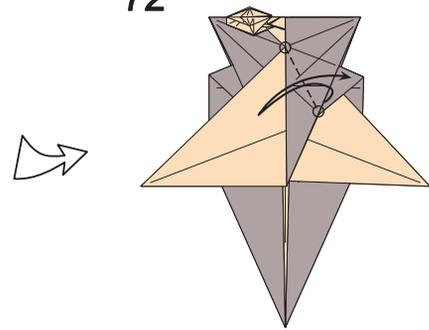
repeat steps 61-67

71



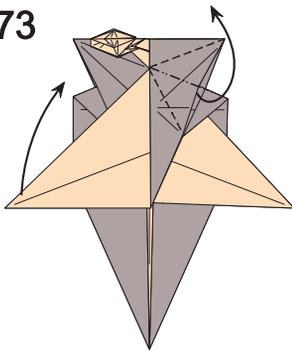
...the result

72



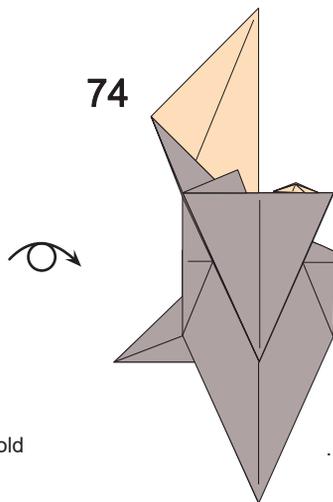
precrease the top layer

73



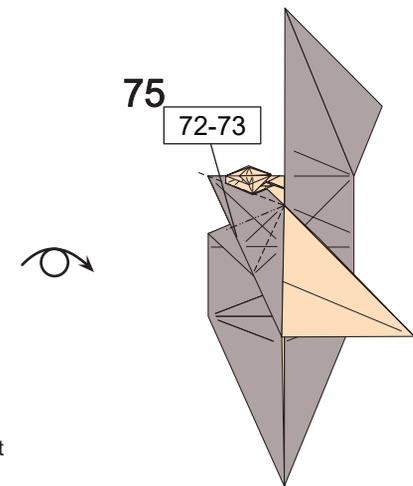
raise the flap with inside-reverse fold

74

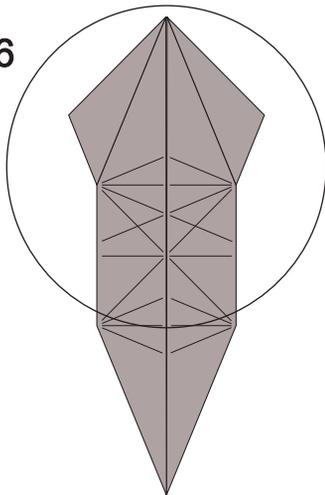


...the result

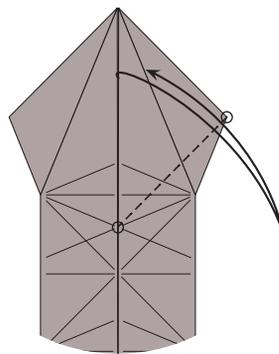
75



76

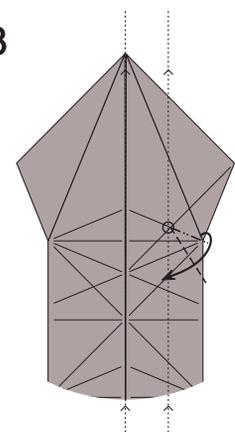


77



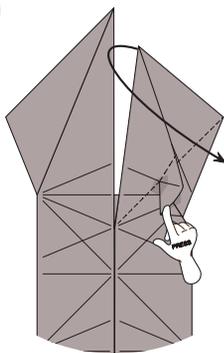
precrease the top flap

78



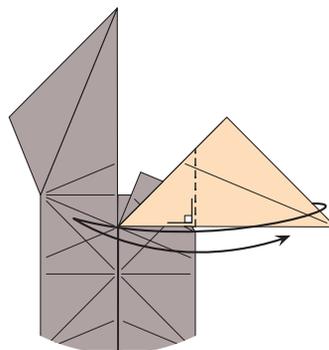
pleat the top layer
model would not lie flat

79



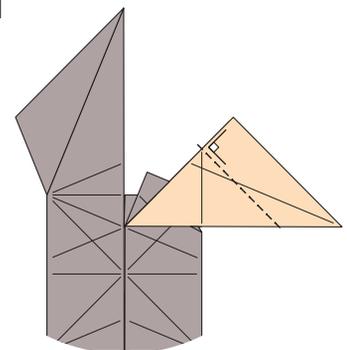
press and flatten the flap

80



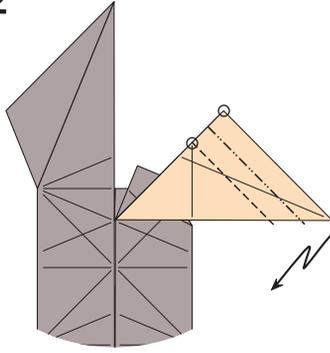
precrease through all layers

81



precrease through all layers

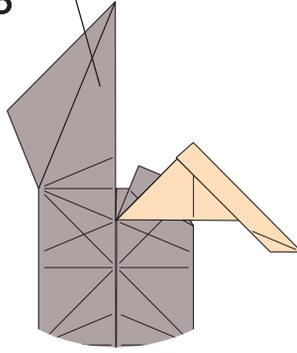
82



pleat down

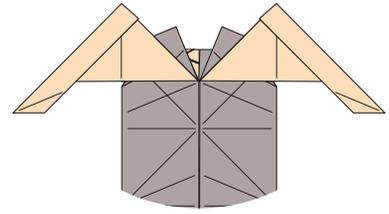
83

77-82



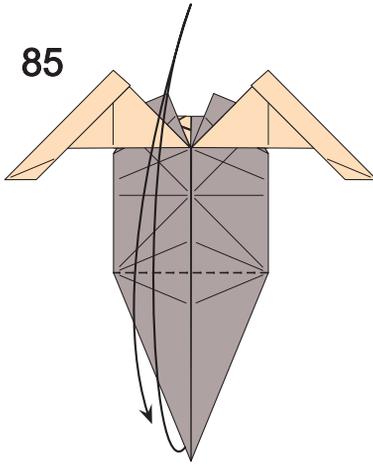
repeat steps 77-82

84



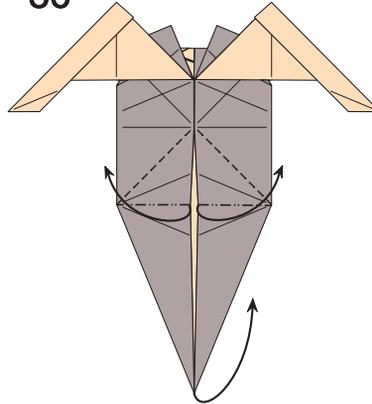
...the result

85



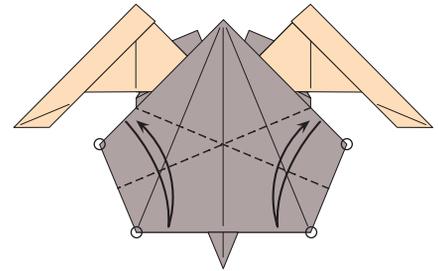
precrease

86



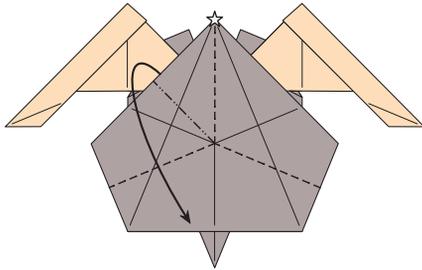
open and squash

87



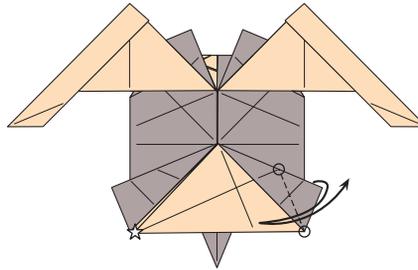
precrease

88



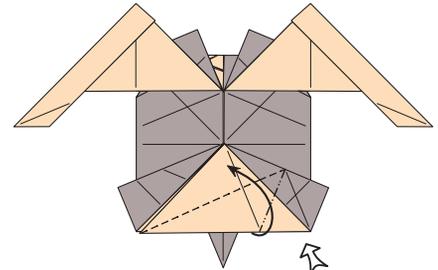
rabbit-ear fold

89



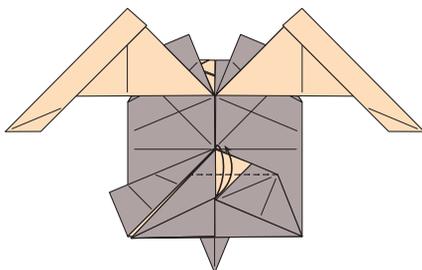
precrease the top flap

90



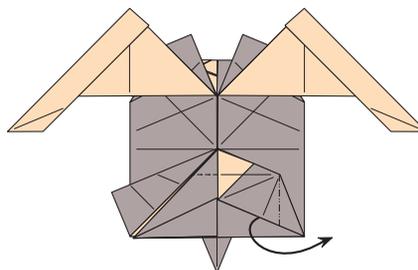
open and squash

91



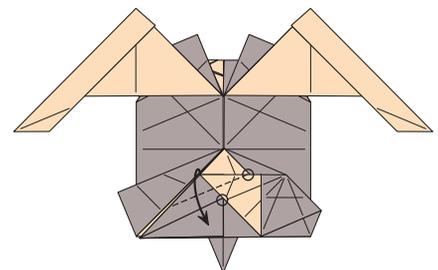
precrease the top flap

92



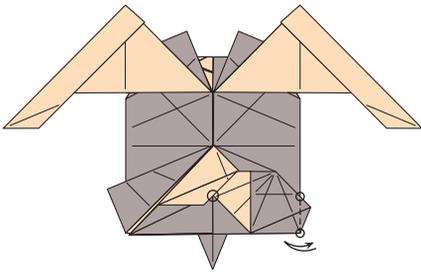
swivel and squash

93



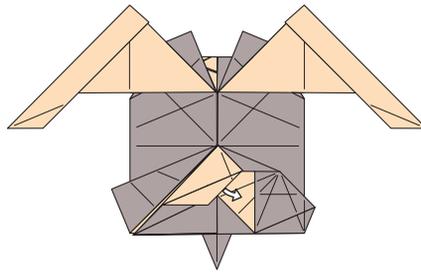
fold top flap down
see next step as reference

94



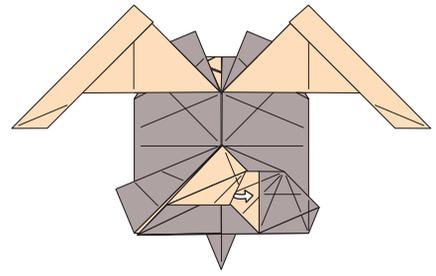
crease through the edge

95



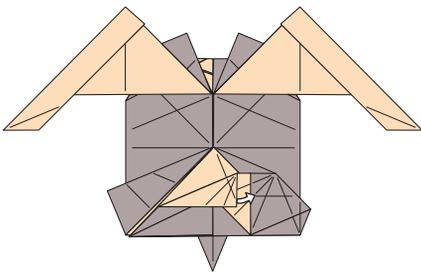
pull paper out
switch mountain/valley lines

96



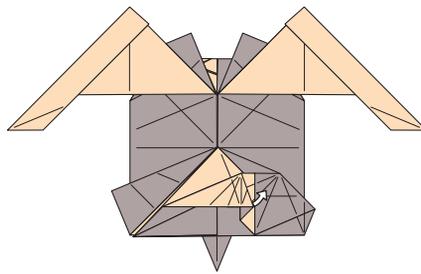
pull paper out
switch mountain/valley lines

97



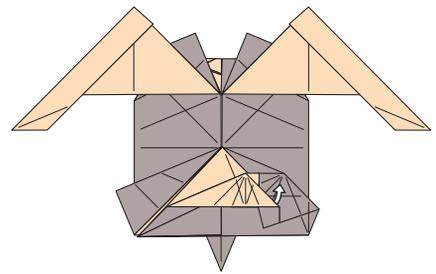
pull paper out
similar as previous step

98



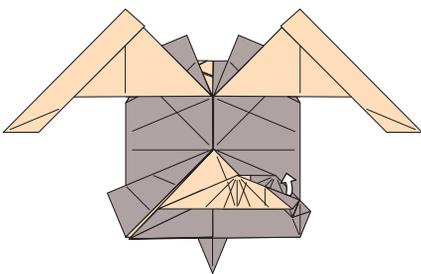
pull paper out
similar as previous step

99



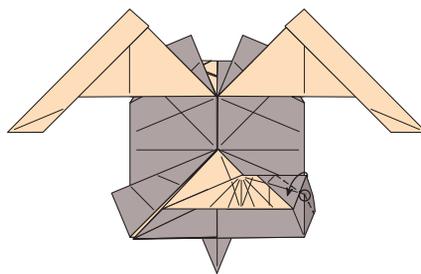
pull paper out
similar as previous step

100



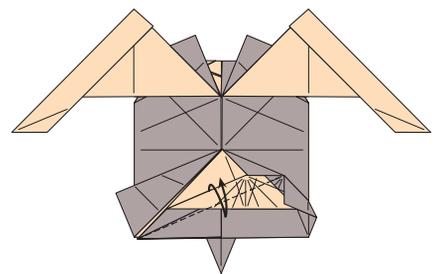
pull paper out
switch mountain/valley lines
model would not lie flat

101



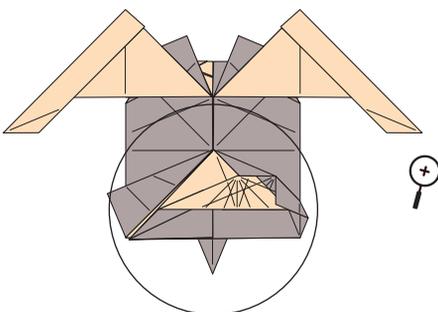
flatten the top flap
align with the layer in the back

102

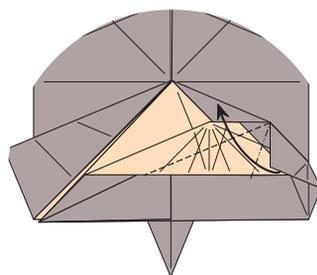


fold and unfold the top flap

103

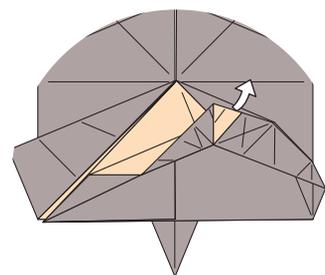


104



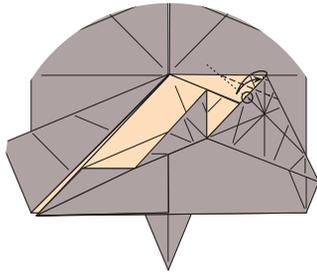
bring out inner layers

105



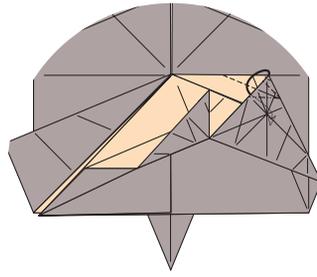
pull paper out

106



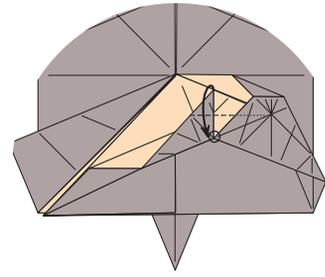
precrease

107



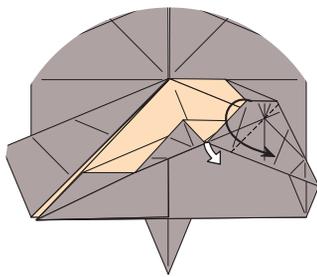
inside-reverse fold

108



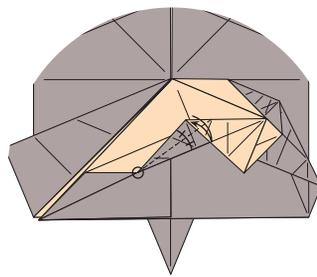
fold inner flap down

109



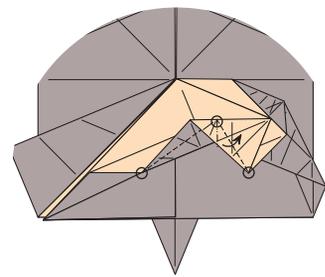
fold top flap down and release inner layer

110



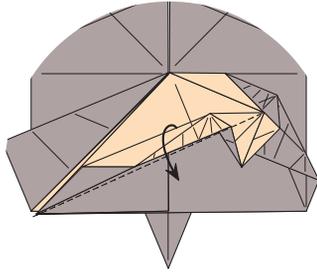
precrease

111



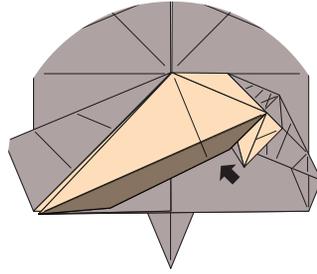
swivel and squash

112



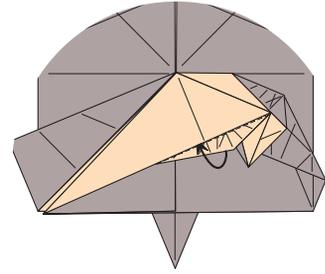
fold two flaps down

113



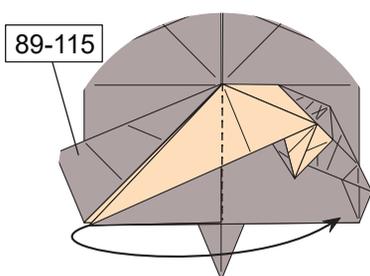
closed sink for top flap

114



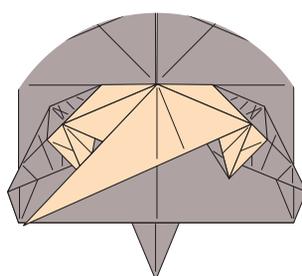
tuck paper inside the pocket

115



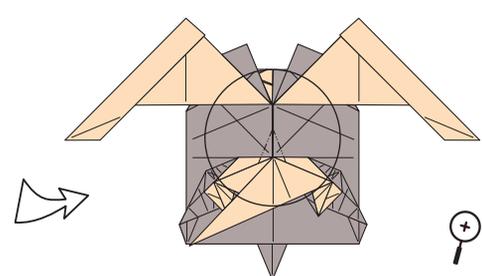
repeat step 89 to 115

116

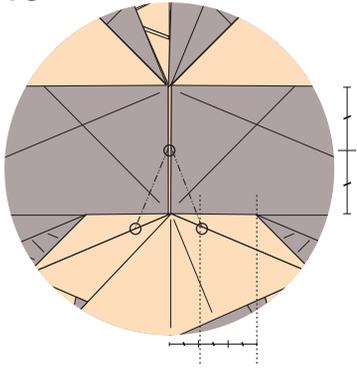


...the result

117

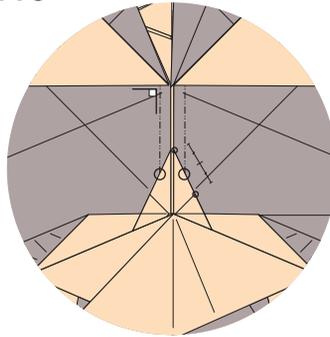


118



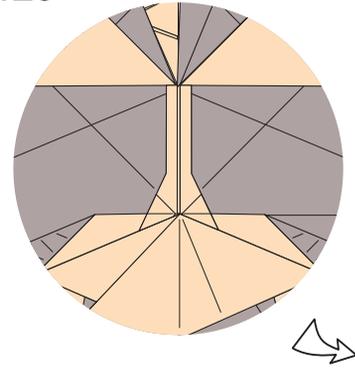
fold top flap backwards
follow the approximation

119



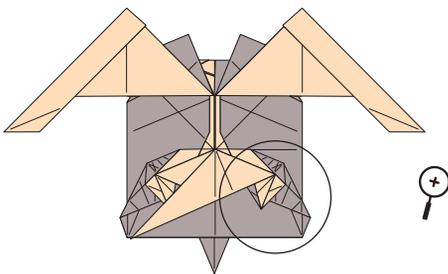
fold top flap backwards
follow the approximation

120

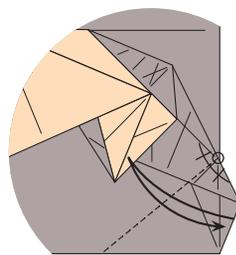


...the result

121

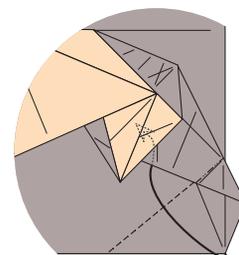


122



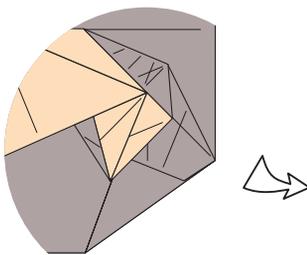
precrease as angle bisectors

123



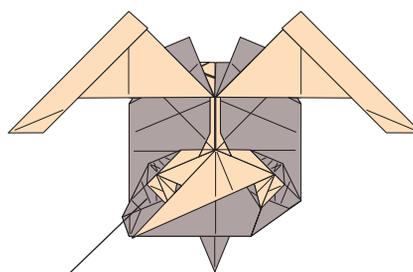
inside-reverse fold

124



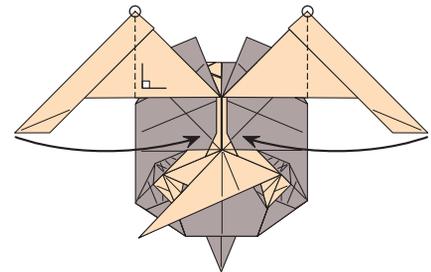
...the result

125



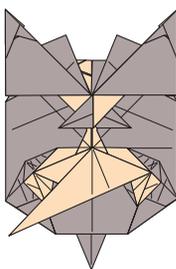
repeat steps 122-124

126



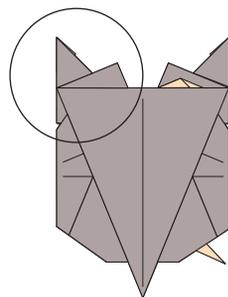
fold the wings inward

127

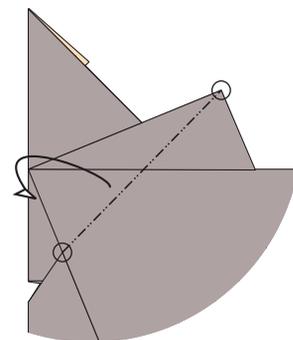


...the result

128

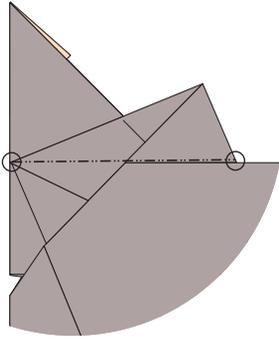


129



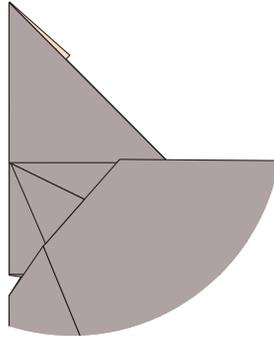
fold top flap backwards

130



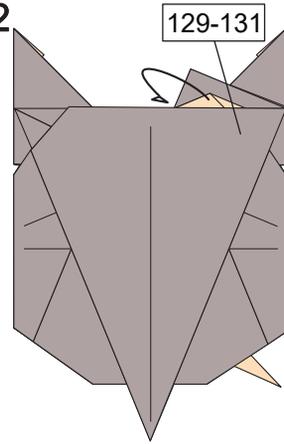
tuck the flap backwards

131



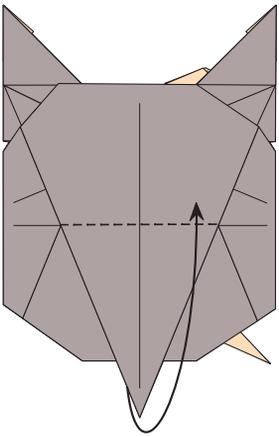
the edge is now locked

132



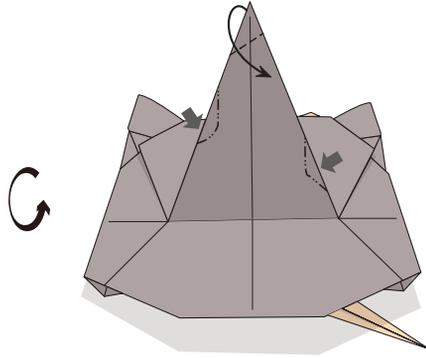
hide the head beneath
repeat steps 129-131

133



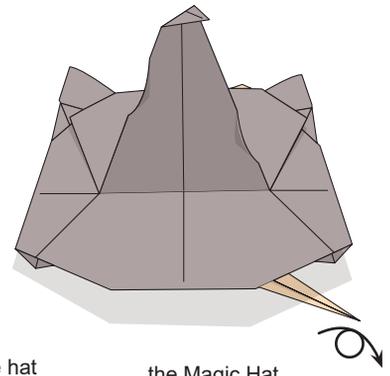
raise the flap

134



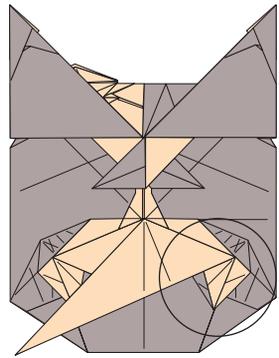
slightly bend the top
press 2 layers inwards on the front and back of the hat

135



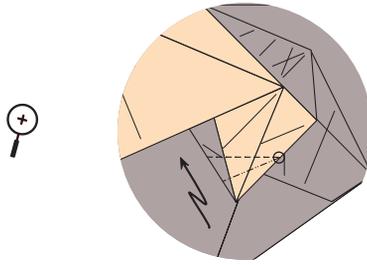
...the Magic Hat.

136



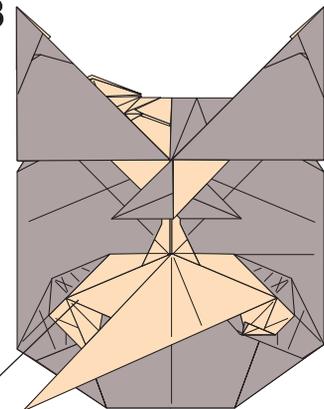
release the wings

137



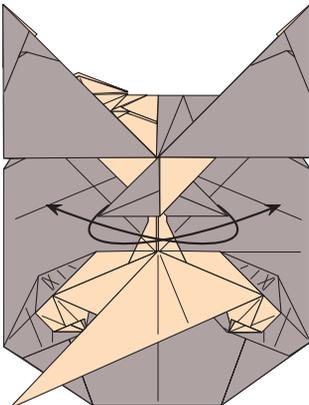
pleat upwards
fold maximum by referring to inner layers

138



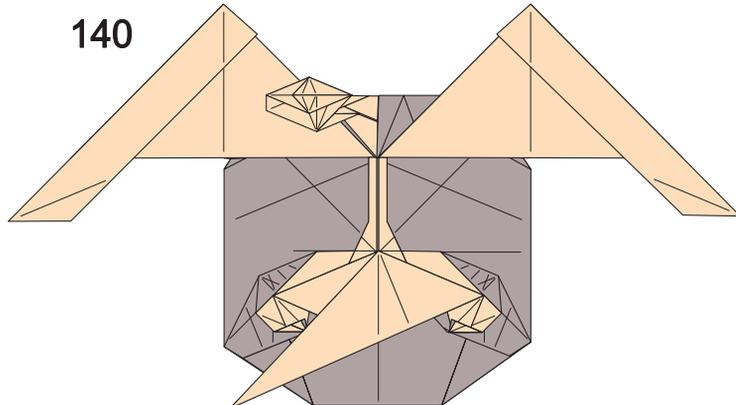
136-137

139



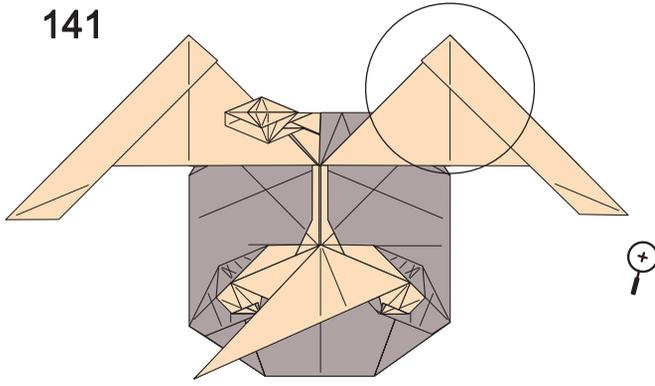
release the wings

140

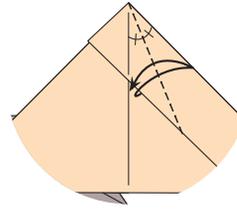


...the result

141

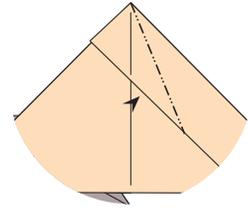


142



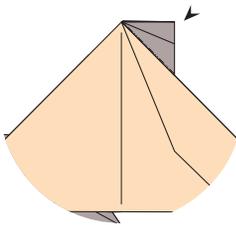
precrease

143



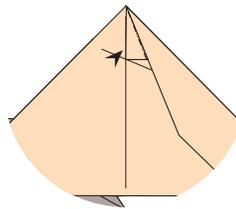
inside-reverse fold
fold through all layers

144



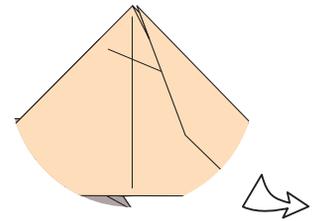
inside-reverse fold
fold through all layers

145



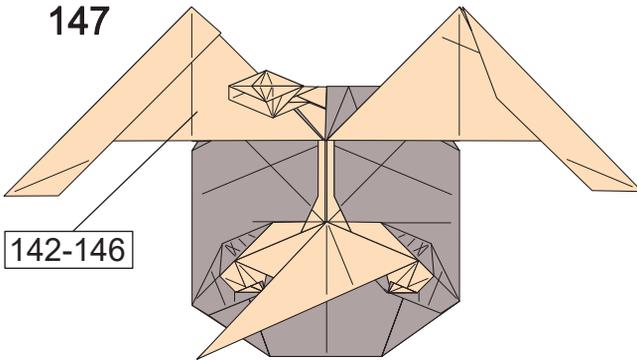
inside-reverse fold
fold through all layers

146



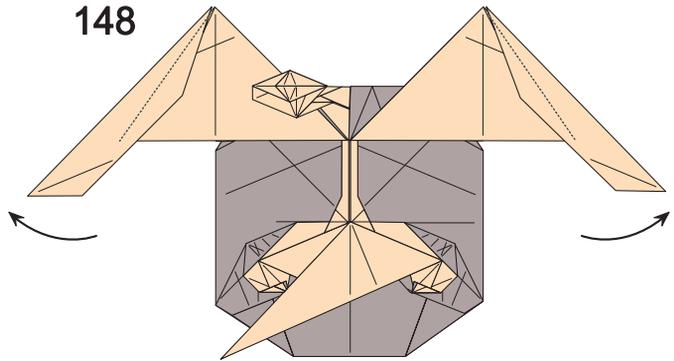
...the result

147



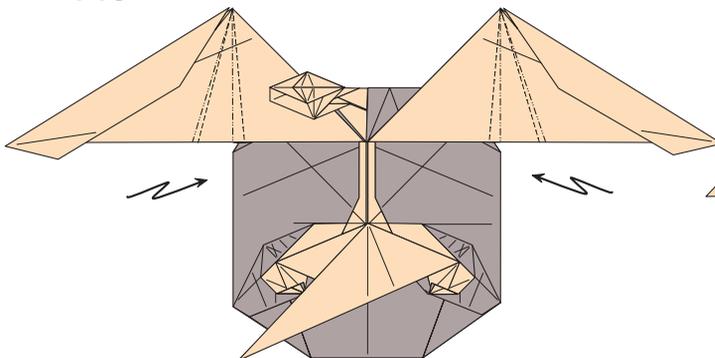
repeat steps 142-146 in the opposite site

148



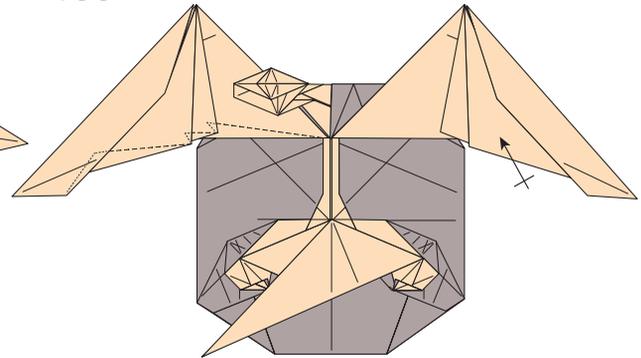
stretch and flatten wings to both sides
change crease lines for the layer beneath

149

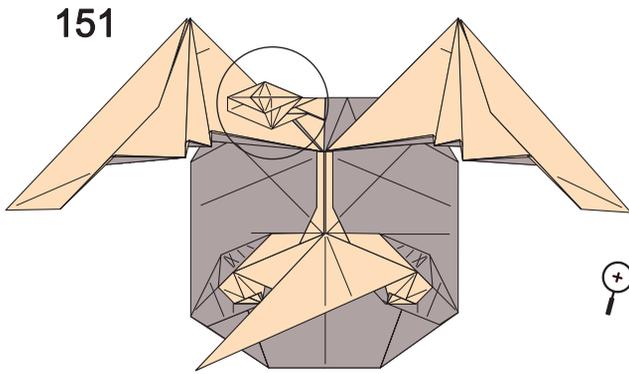


pleat slightly

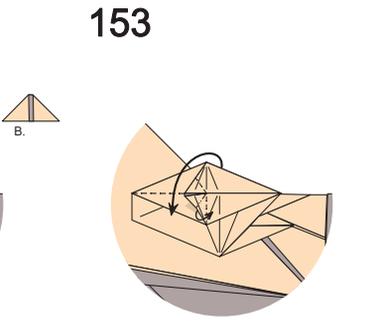
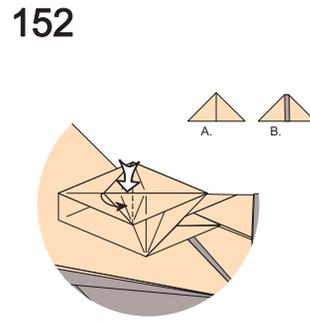
150



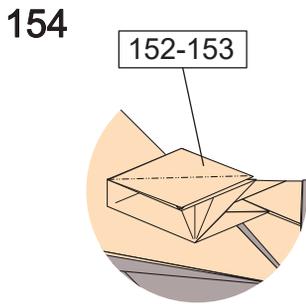
swivel and squash inwards



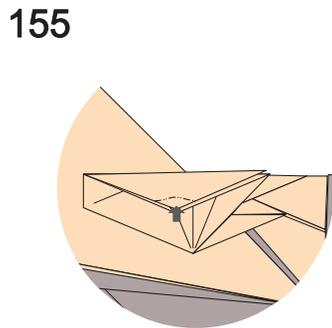
raise top flap
release some paper for the eye's colour



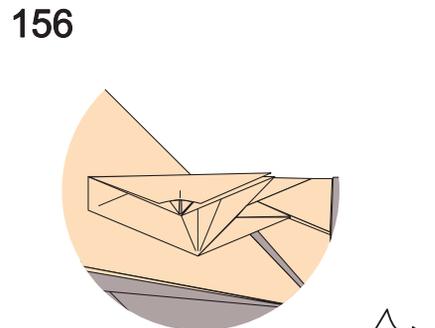
swivel for 90° and squash
fold top flap down to flatten the head



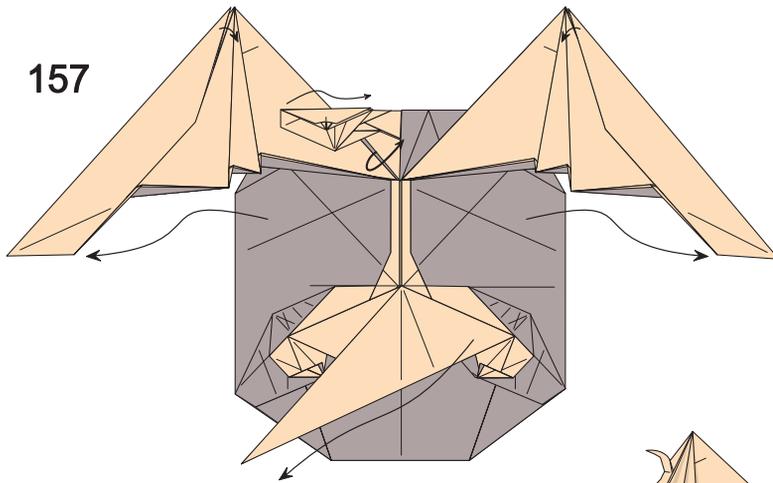
repeat steps 152-153 behind



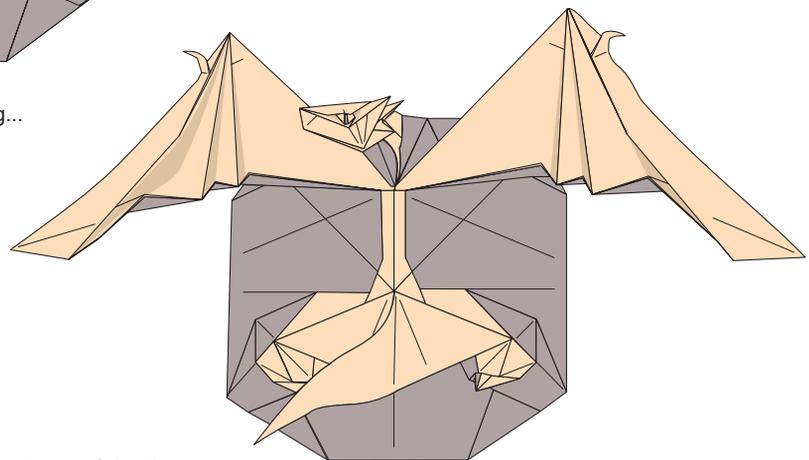
gently press top flap inwards
reveal the eye



repeat step 155 behind



final shaping...



...born of the Dragon.
完成!

Reference photos

