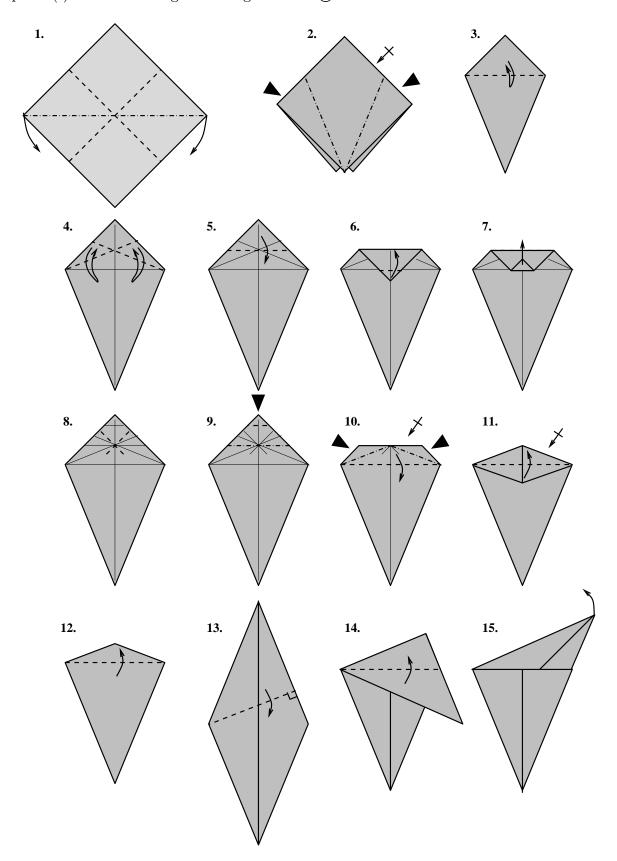
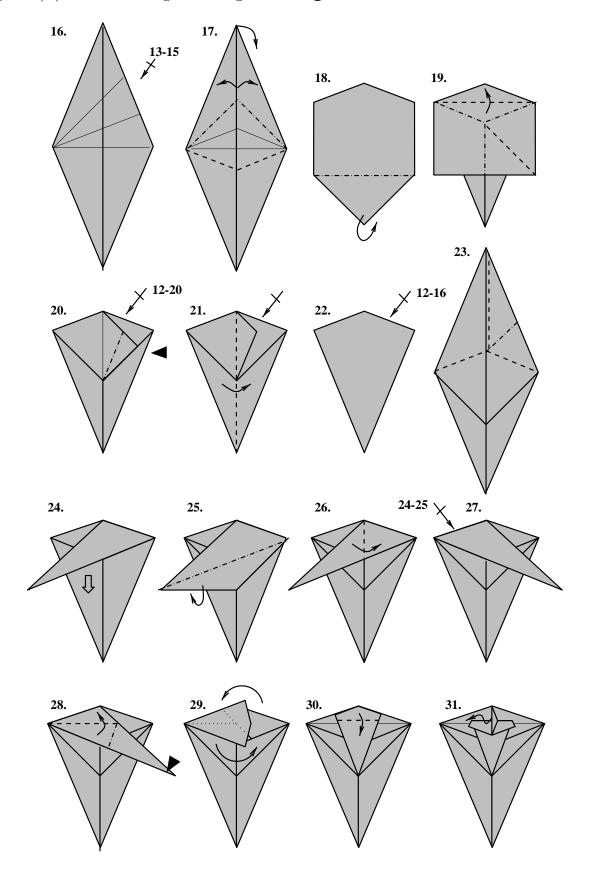
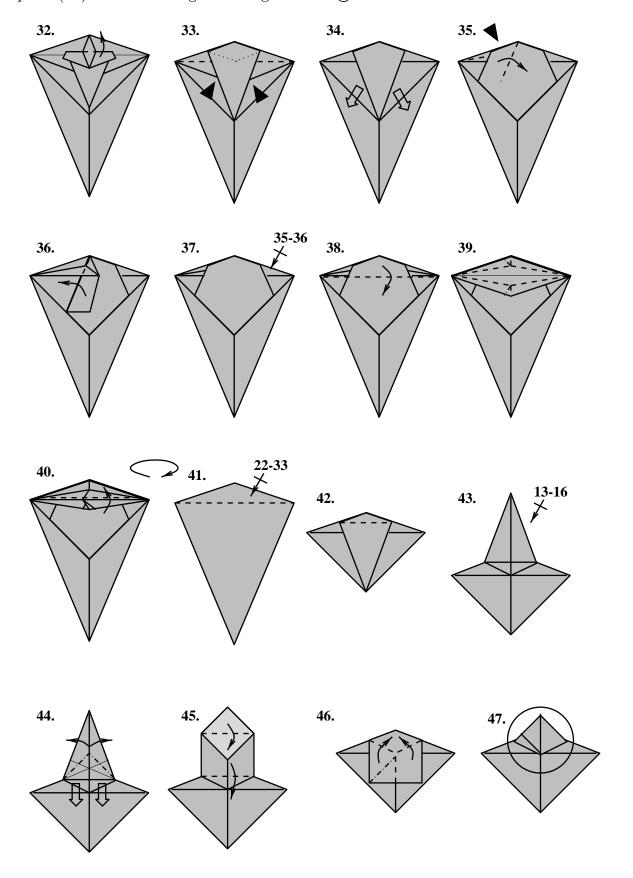
Spider (I) - Model & diagrams: Hugo Pereira ©2002



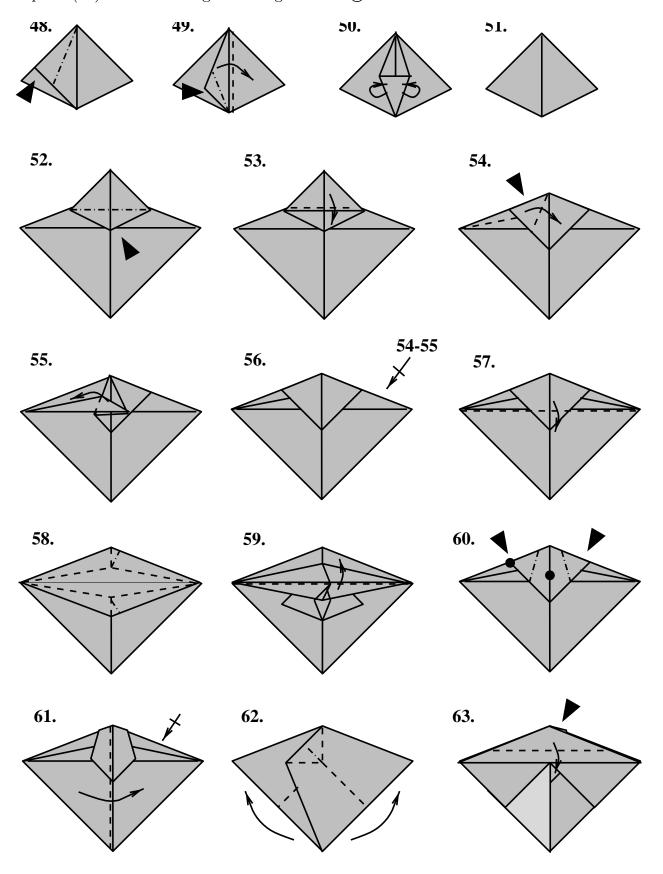
Spider (II) - Model & diagrams: Hugo Pereira ©2002



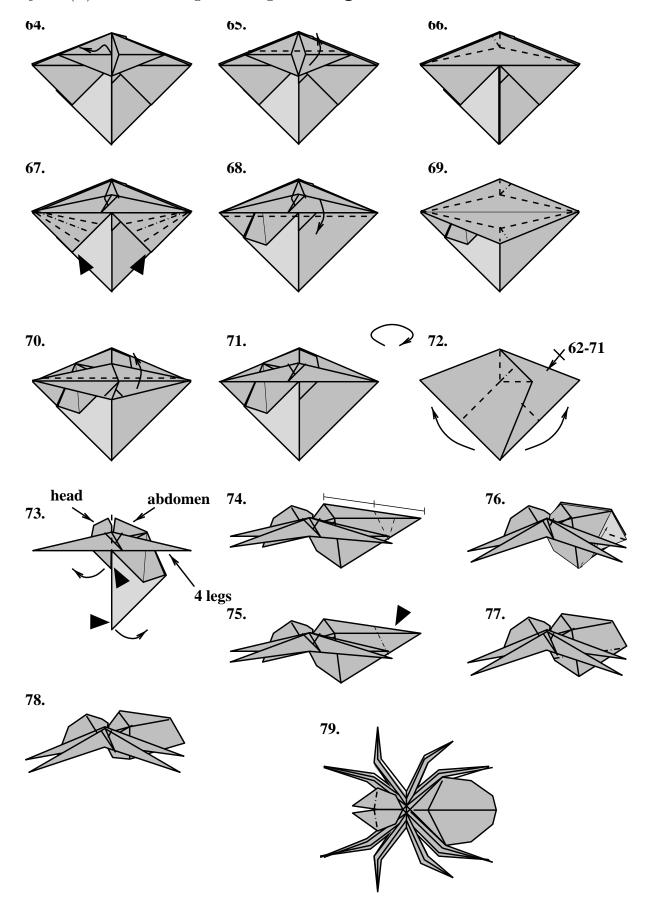
Spider (III) - Model & diagrams: Hugo Pereira ©2002



Spider (IV) - Model & diagrams: Hugo Pereira ©2002



Spider (V) - Model & diagrams: Hugo Pereira ©2002



## **Comments**

- 1. Start with a square, white side up. Fold a preliminary base.
- 2. Inside reverse fold at angle bisector on both sides. Repeat behind.
- 3. Fold and unfold the front flap.
- 4. Precrease on both sides at angle bisector.
- 5. Valley fold down through intersection of previous creases.
- 6. Valley fold up where indicated.
- 7. Unfold back to step 5.
- 8. Precrease on both sides at perpendicular, through intersection of previous creases.
- 9. Open sink two times so that the top of the triangle remains upwards.
- 10. Spread squash on both sides using existing creases. Repeat behind.
- 11. Valley fold up.
- 12. Valley fold front flap up.
- 13. Valley fold down at perpendicular.
- 14. Valley fold up at angle bisector.
- 15. Unfold back to step 13.
- 16. Repeat steps 13 to 15 on the other side.
- 17. Fold down while opening the front flap using existing creases.
- 18. Mountain fold where indicated.
- 19. Collapse the front flap using existing creases.
- 20. Inside reverse fold at angle bisector. Repeat steps 12 to 20 behind.
- 21. Fold one flap to the right. Repeat behind, to the left.
- 22. Repeat steps 12 to 16 on front flap (precreases).
- 23. Rabbit ear (asymmetric) the front flap using existing creases.
- 24. Pull out one layer (undoing a reverse fold).
- 25. Mountain fold back inside the model. Hidden creases are the same but have been rearranged.

- 26. Flip to the right.
- 27. Repeat steps 24 and 25 in mirror image.
- 28. Squash fold up.
- 29. Rotate  $(90^{\circ})$  the front assembly, adding valley fold. Rearrange the left side so that the model is symmetric (reverse fold a hidden flap).
- 30. Valley fold down the front flap as far as possible. You need to inside reverse fold a tiny hidden flap (see next step).
- 31. Pull out some paper (this is like undoing a sink).
- 32. Valley fold up.
- 33. Inside reverse fold hidden flap on each side.
- 34. Pull out as much paper as you can on both sides of the front flap.
- 35. Valley fold to the right as far as possible. You will have to inside reverse fold a hidden flap.
- 36. Close back to step 35.
- 37. Repeat steps 35 and 36 on the other side.
- 38. Valley fold two flaps down.
- 39. Rabbit ear top and bottom flap.
- 40. Close back. The abdomen is completed. Turn over.
- 41. Repeat steps 22 to 33 on the front flap.
- 42. Valley fold up.
- 43. Repeat steps 13 to 16 on the top flap (precreases).
- 44. Open the top flap using existing creases. You will have to pull out some trapped paper at the base of the triangle.
- 45. Valley fold two times down.
- 46. Rabbit ear (asymmetric) using existing creases.
- 47. Next steps are close-up views of the top flap.
- 48. Inside reverse fold the front flap at angle bisector.
- 49. Spread squash.
- 50. Bring a single layer to the front on both sides.

- 51. Like so.
- 52. Full view. Closed sink the tiny flap.
- 53. Valley fold one flap down.
- 54. Valley fold to the left as far as possible. You will have to inside reverse fold a hidden flap.
- 55. Close back.
- 56. Repeat steps 54 and 55 on the other side.
- 57. Valley fold two flaps down.
- 58. Rabbit ear top and bottom flaps.
- 59. Close back.
- 60. Inside reverse fold on both sides. Corners meet a flap hidden within the assembly.
- 61. The head is completed. Fold two flaps to the right. Repeat behind, to the left.
- 62. Raise the two flaps at the bottom to meet the side corners. Add valley folds where indicated.
- 63. Valley fold front flap down as far as possible. You will need to reverse fold a tiny hidden flap (see next step).
- 64. Pull out some paper (this is like undoing a sink).
- 65. Close back.
- 66. Rabbit ear the front flap.
- 67. Alternate Inside and outside reverse folds on both sides.
- 68. Valley fold two flaps down.
- 69. Rabbit ear top and bottom flaps.
- 70. Close back. The first four legs are completed.
- 71. Turn over.
- 72. Repeat steps 62 to 71 on the front flap, to form the remaining four legs.
- 73. Raise the abdomen, undoing a reverse fold. Raise the head on the other side. The model will now be 3D.
- 74. Precrease the abdomen. First valley fold meet the top side at middle point.
- 75. Inside reverse fold the abdomen.

- 76. The front layer is not drawn. Valley fold up the tiny flap hidden inside to lock the abdomen.
- 77. Add Mountain folds where indicated to shape the abdomen (see next step).
- 78. Shape the legs.
- 79. Shape the head, the spider is completed.