

Paper Plane 3D Craft

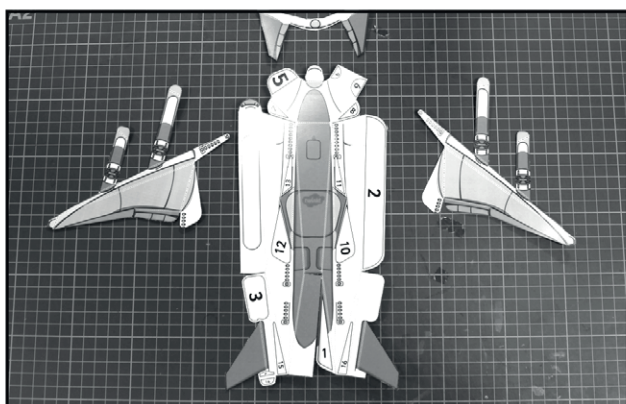
Amazing Fact

In the Orkney Islands off the coast of Scotland, the shortest regular air service in the world takes passengers between the islands of Westray and Papa Westray. The flight covers 2.7km and lasts for two minutes although it can take as little as 47 seconds in favourable wind conditions.

Challenge

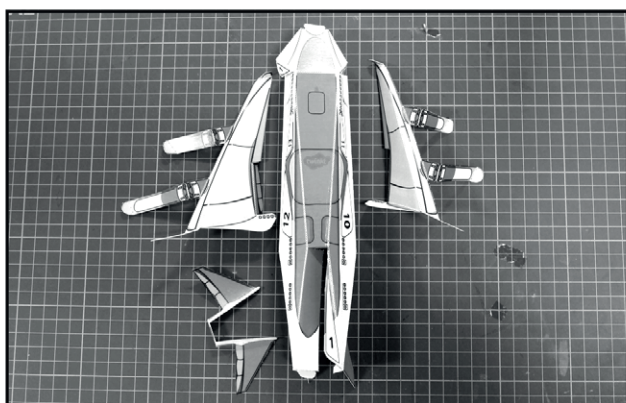
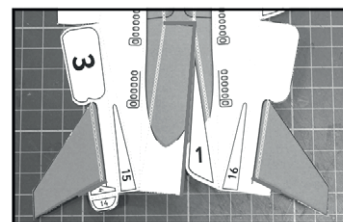
Follow the instructions below. Make sure you cut and fold carefully, to create your own 3D model aeroplane.

Airplane Instructions



Step 1

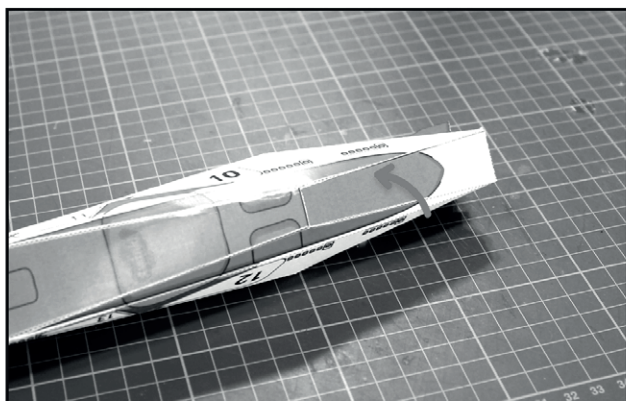
Carefully cut out the model along the solid black outline. Be sure to also cut along the lines shown in the image below.



Step 2

Fold along the dotted lines as shown in the diagram below.

(Optional : Scoring over these lines with a craft knife or empty ball point pen can make it easier to fold along these lines.)

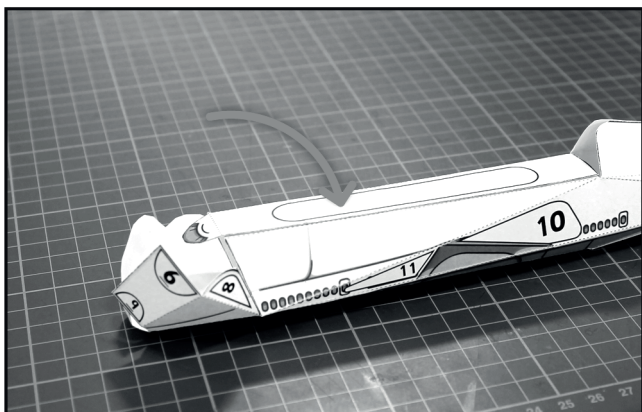


Step 3

Glue tab 1 to the other side of the bottom of the fuselage as shown.

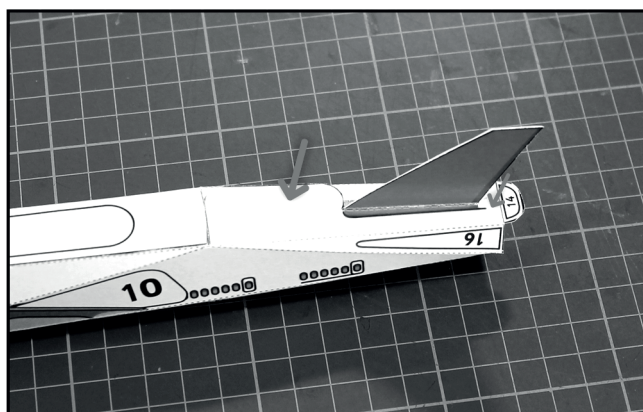
- 1) Cut
 - 2) Valley Fold
 - 3) Hill Fold
 - 4) Glue
- 1 2 3

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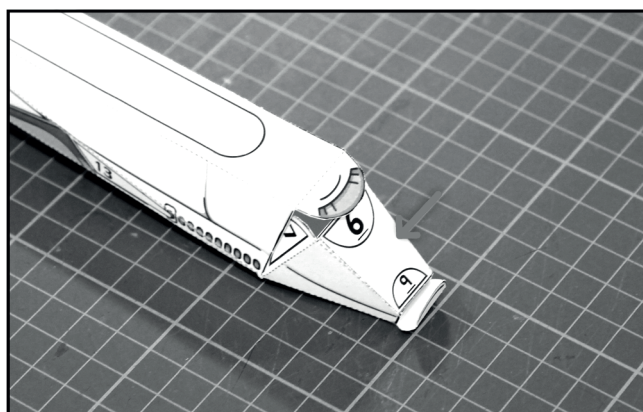
Step 4

Fold around the fuselage and glue tab 2 to the other side of the plane's roof.



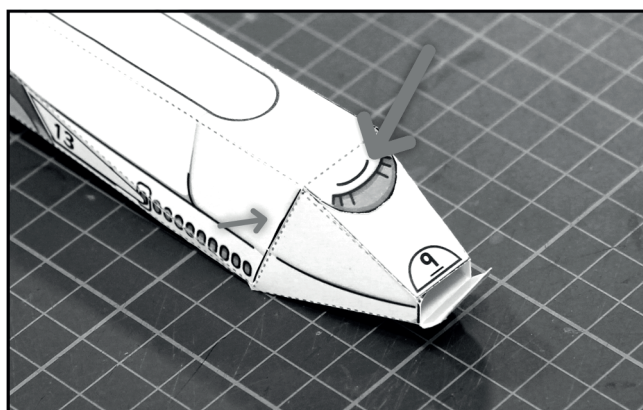
Step 5

Glue tabs 3 and 4 to the opposite side of the plane's back as shown. Now glue the back of the fins together.



Step 6

Fold around the nose of the plane and glue tab 5 into place as shown.

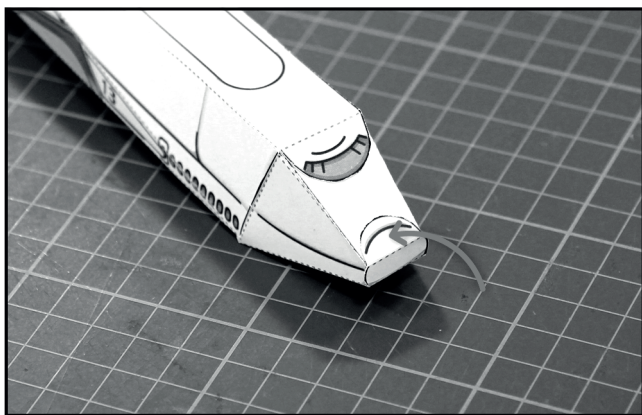


Step 7

Glue tab 6 down using the exposed cockpit as shown. You can now glue tabs 7 and 8 to the inside of the fuselage.

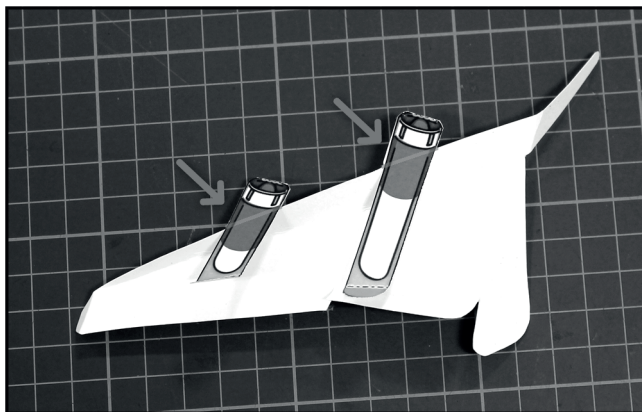
- 1) Cut
 - 2) Valley Fold
 - 3) Hill Fold
 - 4) Glue
- 1 2 3

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Step 8

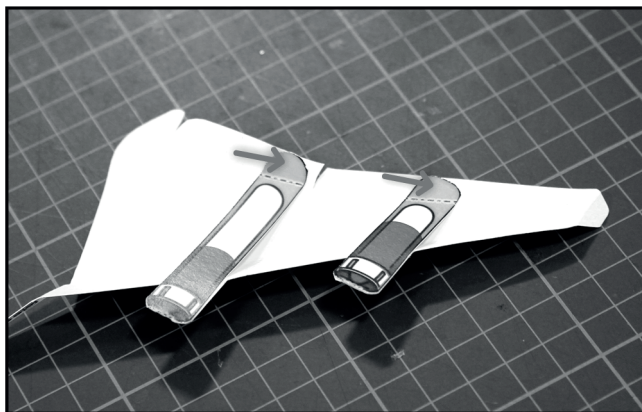
Create the tail of the plane by folding the central fin, and gluing the back of the page together as shown. Be careful to only glue the central fin together at this stage.



Step 9

Fold over the wing engines and glue the backs of the page together as shown.

The glue should only be on the sections that folds upwards (shown by the yellow line in the image).



Step 10

Glue the exposed flaps at the end of the engines to the back of the wing as shown, the folds of the engine should match up with the folds of the wings.

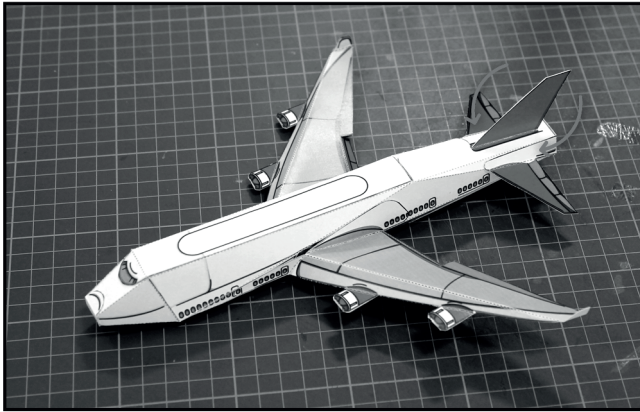


Step 11

Glue the wings to the fuselage using tabs 10-12 as shown.

- | | |
|----------------|---|
| 1) Cut | _____ |
| 2) Valley Fold | - - - - - |
| 3) Hill Fold | - - - - - |
| 4) Glue | 1 2 3 |

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Step 12

Glue tab 14 to the inside of the tail then glue the tail flaps onto the fuselage 15 and 16 as shown.

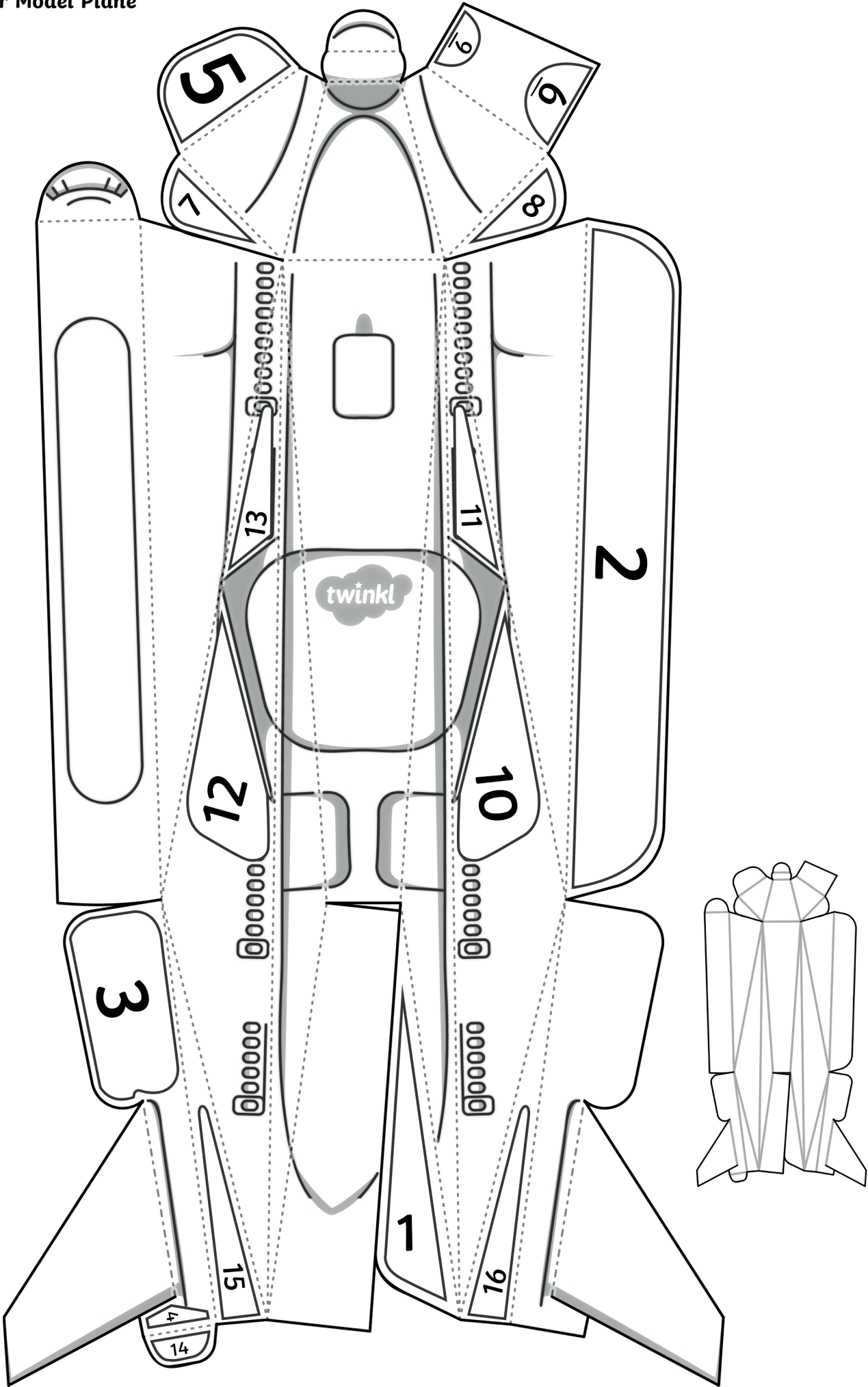


Final product

1) Cut —————
2) Valley Fold - - - - -
3) Hill Fold - - - - -
4) Glue 1 2 3

You could also try to find out:

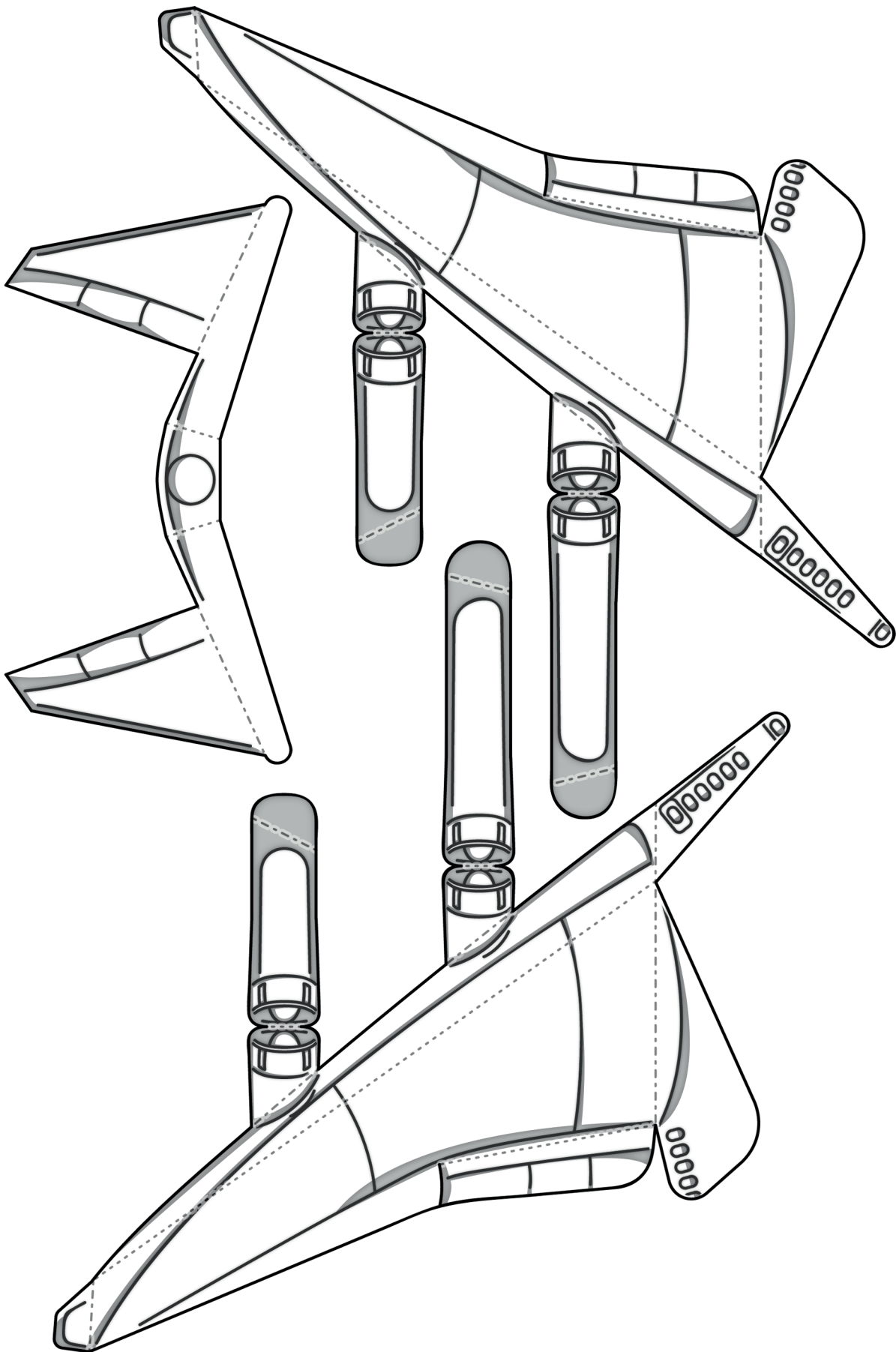
- what the longest flight ever made is;
- what the fastest passenger plane every built is;
- which airline offers the most luxurious travel and how much it costs;
- about ferry pilots who transport small planes from one place to another.



- 1) Cut
- 2) Hill Fold
- 3) Valley Fold
- 4) Glue

Hill Fold (Fold up)

Valley Fold (Fold down)



- 1) Cut
2) Hill Fold
3) Valley Fold
4) Glue
- 1

2

3

