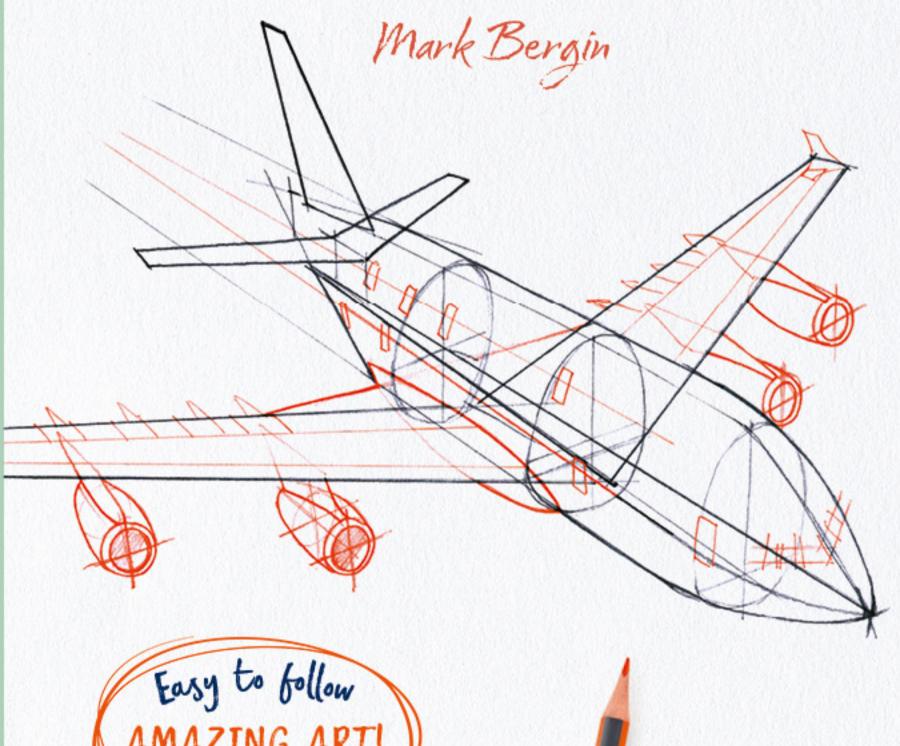
HOW TO DRAW

PLANES



Easy to follow

AMAZING ART!

Step-by-step

HOW TO DRAW

CARICATURES Mark Bergin



Hatch

First published in the UK in 2015 by The Salariya Book Company Ltd This edition published in the UK in 2025 by Hatch Press, an imprint of Roppier Books LIK

an imprint of Bonnier Books UK 4th Floor,Victoria House Bloomsbury Square, London WC IB 4DA Owned by Bonnier Books Sveavägen 56, Stockholm, Sweden www.bonnierbooks.co.uk

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1 3 5 7 9 10 8 6 4 2

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ISBN 978-1-83587-193-5

Printed in China





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Making a start

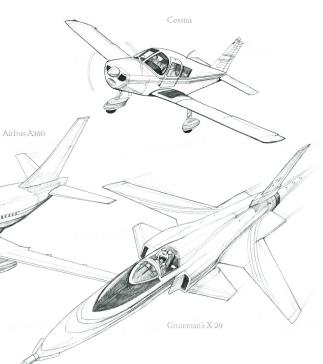
Learning to draw is about looking and seeing. Keep practicing and get to know your subject. Use a sketchbook to make quick sketches. Start by doodling, and experiment with shapes and patterns. There are many ways to draw, this book shows one method. Visit art galleries, look at artists' drawings, see how friends draw, and most importantly, find your own way.



Pitts Special



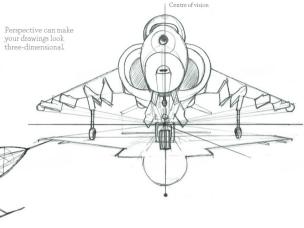


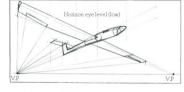


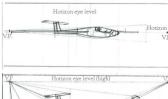
Perspective

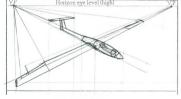
If you look at a plane from different viewpoints, you will see that the part of the plane that is closest to you will look larger, and the part furthest away from you will look smaller. Drawing in perspective is a way of creating a feeling of space and three dimensions on a flat surface.

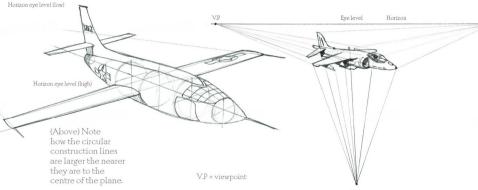








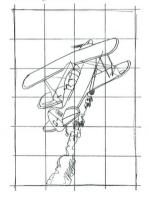


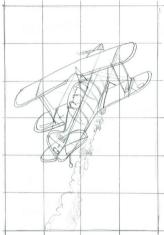


Using photographs

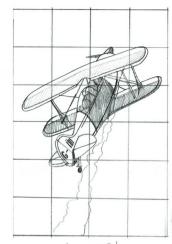
It is important that you consider the position of your drawing on the paper, this is called composition. Drawing from a photograph can help you identify shape and form.

(Below) Make a tracing of the photograph and draw a grid over it.



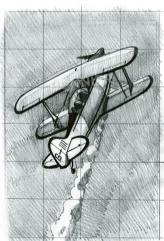


(Above) Then draw another grid, enlarging or reducing it to the same scale. You can now transfer the outline shapes from your tracing, to the paper, using your grid as a guide.





(Left) You must remember that the photograph is flat. You need to make your drawing look three-dimensional. See how light falls on the plane.



Materials

Try using different drawing papers and materials. Experiment with charcoal, wax crayons, and pastels. Pens, from felt-tips to ball-points will all make interesting marks, or try drawing with pen and ink on wet paper.

Remember, the best equipment and

best drawing.

Felt-tip pen

materials will not necessarily make the

Pencils are graded from 6H (the hardest) through 5H, 4H, 3H, 2H to H, then B through 1B, 2B, 3B, 4B, 5B up to 6B (the softest).

Charcoal is very soft and can be used for big, bold drawings. Spray charcoal with fixative* to prevent further smudging (see page 2).

Pastels are even softer than charcoal, and come in a wide range of colours. Spray pastels with fixative* to prevent further smudging (see page 2).

Special effects can be achieved by scraping away parts of a drawing done with wax crayons.

Ink

Lines drawn in ink cannot be erased, so drawings can look more free, and mistakes can be lost in the drawing.

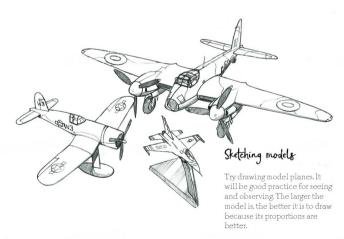
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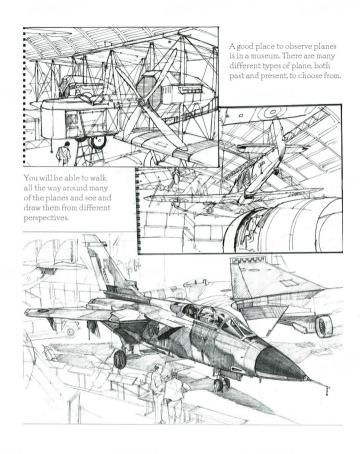
Sketching

We can't always rely on our memories, so we have to look around and find real-life things we want to draw. Using a sketchbook is one of the best ways to build drawing skills. Learn to observe objects: see how they move, how they are made and how they work. What you draw should be what you have seen. Since the Renaissance, artists have used sketchbooks to record their ideas and drawings.

Sketching

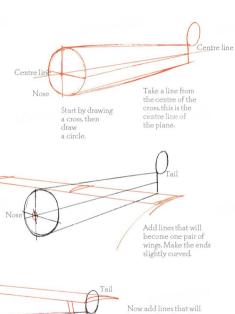
A sketch that has taken a short time can say as much as a careful drawing that has taken many hours.

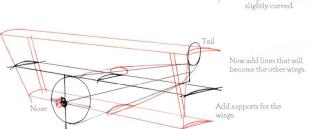


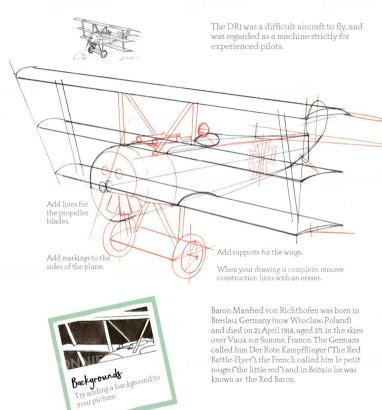


Fokker DR1 Triplane

The Fokker Dreidecker (DRI) triplane was used by Germany in WWI against the British Sopwith triplane. It carried one pilot and was armed with two machine guns. Its most famous pilot was Baron Manfred von Richthofen.

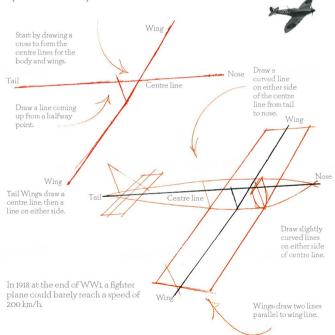


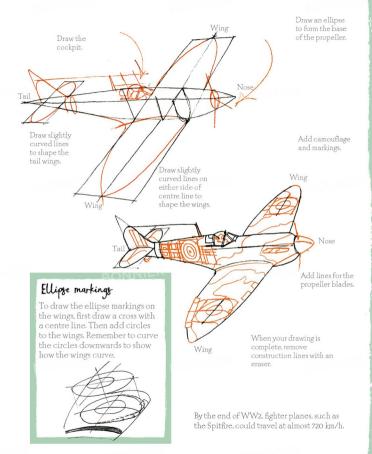




Supermarine Spitfire

In the summer of 1940, fewer than a thousand British Hurricanes and Supermarine Spitfire planes defeated 3,000 aircraft in the Luftwaffe (German airforce).

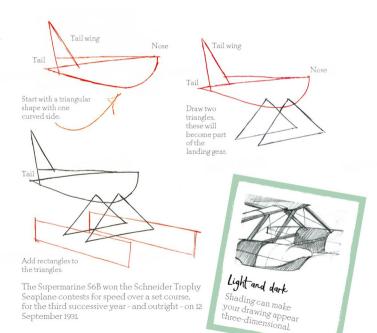


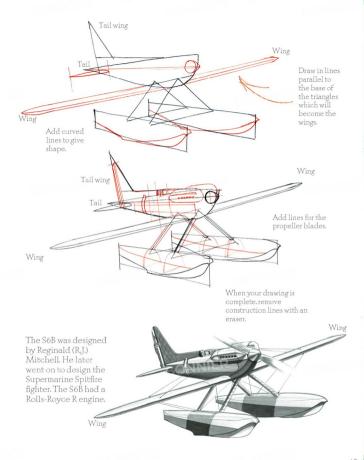


Supermarine S6B



The Supermarine S6B Seaplane became the fastest aircraft on Earth in September 1931 when it achieved a record-breaking speed of 656 km/h.

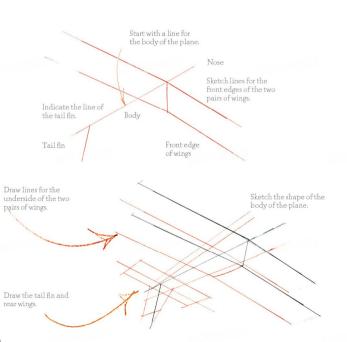




Pitts Special



One of the world's most famous stunt planes, the Pitts Special, was designed in 1944 in Florida, by Curtis Pitts.



Continuing to compete until the early 1980s, the Pitts Special won more aerobatic contests than any other type of aircraft.



Reverse

You can
often see
why a
drawing is
not working
by looking at
it in a mirror.

Put in the struts that join the two pairs of wings.

Draw the nose cone and indicate the propeller blades. Finish drawing the rounded shape of the plane's nose.

Draw the cockpit, and loosely sketch in the pilot.

Sketch the curved shape of the tail wings and fin.

When your drawing is complete, remove construction lines with an

Draw the four curved Acrofold

rectangular aerofoils.

remove eraser.

Sketch in the landing

gear and wheels.

'Blackbird'

The Lockheed SR-71, or 'Blackbird'. is the world's fastest jet plane. It reached a speed of 3,529 km/h, over three times the speed of sound, in 1976. The SR-71 was used for spying.

Draw a line for the rear of the plane's wing.

Tail

Draw a line on either side of the line of the body.

Body

Draw a longer line from the rear of the plane to its nose.

Nose

Draw two triangular shapes to indicate the tails on the engines.

Draw a large triangle to form the wings.

Engine tail

Draw two curved lines to make the of the aircraft.

Nose

Sketch a rectangle from the nose of the plane to the rear. Make the shape slightly wider at the

Tail /

Engine tail

Sketch a long oval with a circle at each end to make the shape of each engine.

Engine tail

corners on each wing tip.

Round the sharp

Sketch the windows and

> Draw cone shapes for the front of the engines.

Lightly sketch the shape of cross sections of the body of the plane.

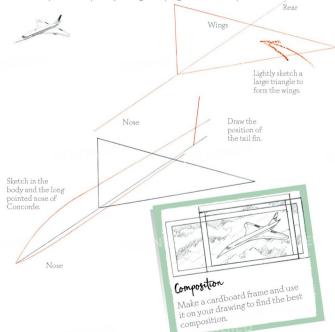
When your drawing is construction lines with an

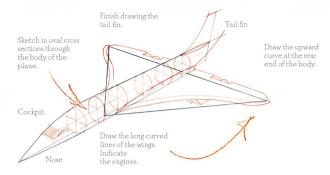
The thin skin of the Blackbird is painted with a special heat-resistant paint. The skin of the plane can withstand a temperature of over 300 degrees centigrade during flight.

Concorde

Concorde had four specially designed Rolls-Royce engines. These provided the extra power needed for take off and the transition to supersonic flight. It was the most powerful pure jet-engine flying commercially.

Draw a line from the nose of the Concorde to its rear.





Draw the windows in the cockpit.

The average flight time between London
Heathrow and New York JFK was three hours
and 20 minutes. Typically a Boeing 747 takes

When your drawing is complete, remove construction lines with an eraser.



Lastly, draw the plane's markings.

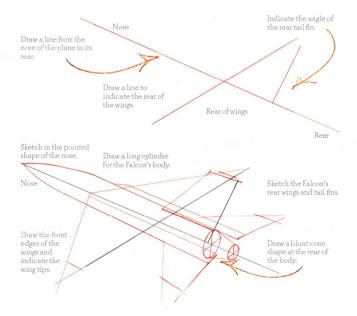
more than seven hours for the same journey!

After 27 years in sevice, Concorde made her last flight between London and New York on 24 October 2003.

F-16A Fighting Falcon

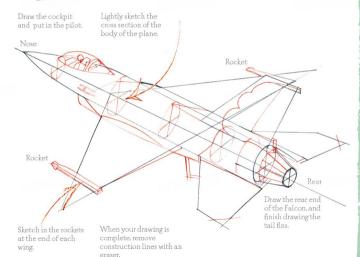
The F-16A Fighting Falcon is a compact and manoeuvrable fighter aircraft. It is highly effective in both air-to-air combat and air-to-surface attacks.







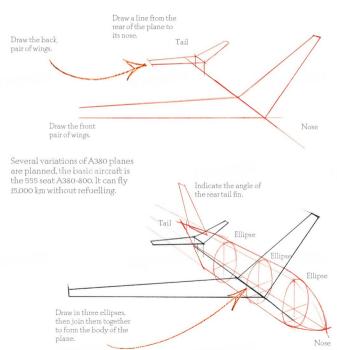
The F-16A can accurately locate targets in all weathers and detect hard-to-find, low flying aircraft. It can also fly more than 860 km without needing to stop and refuel.

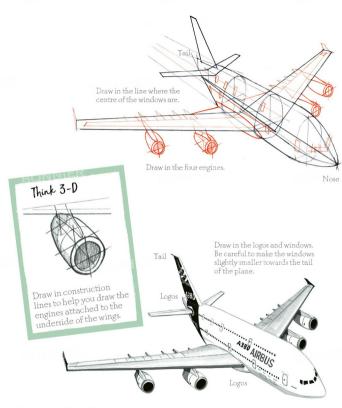


Airbus A380



The 555 seat, double-decker Airbus A380 will be the world's largest passenger carrying airliner.





The A380 will be able to use existing airports, they have also been designed to create lower fuel emissions and less noise.

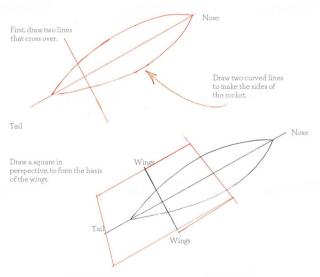
When your drawing is complete, remove construction lines with an eraser.

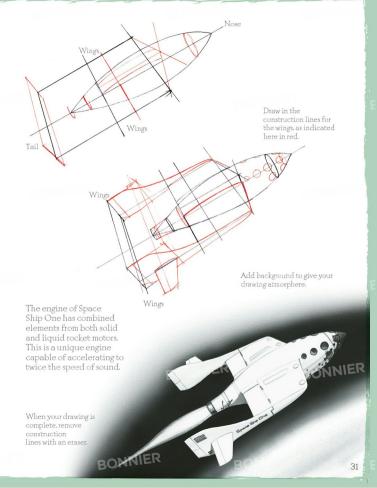
Nose

Space Ship One

Space Ship One made the first privately-funded space flight on 21 June 2004. It is hoped that this is the future of space tourism. Thousands of people are expected to leave the Earth's atmosphere each year.







Glossary

Chiaroscuro The use of light and dark shades in a drawing or painting.

Composition The position of a picture on the drawing paper.

Construction lines Structural lines used in the early stages of a drawing.

Fixative A type of resin used to spray over a finished drawing to prevent smudging* (see page 2).

Focal point A central point of interest.

Light source The direction the light is coming from.

Proportion The correct relationship of scale between parts of a drawing.

Reference Photographs or other images that can be drawn, if drawing from life is not possible.

Squaring up To transfer a drawing or photo accurately using square grids.

Three-dimensional An image that has the effect of making it look lifelike or real.

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