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MAGIC CAT FIFTH PUBLISHING



Birds have fascinated us humans since the dawn of time.

Over the generations we have celebrated birds in many different ways: we have written songs about them, drawn and painted them, created mythology around them, domesticated them and even named buildings, streets and towns after them.



But despite this fascination, we humans have also been quite destructive towards birds. We have hunted them, polluted our rivers and seas and destroyed huge swathes of their habitat.

I hope that this book will help readers connect with the wonderful world of birds and realise how diverse a group of animals they are. Birds don't have to possess gaudy plumages to be interesting: the plain-coloured ones make up for their dowdiness with their incredible stories and intriguing behavioural traits. It is these stories that I want to share.

We know quite a lot about the life of birds now. But there are still big gaps in our knowledge. I am hoping that after reading this book you will want to go out and study the birds that you see to find out more about their lives. It's a common misconception that you have to venture into the middle of the countryside to do this. It can start from your back garden; your local park; your home city.

In 1943, David Lack decided to study the European robins in his neighbourhood in Oxford, England. He wasn't a scientist but his discoveries about the robin now shape what we know and take for granted today. We can all make such discoveries about even the most common of birds that surround us. We can all enjoy birds.

Get outside and look up!

- D.L.





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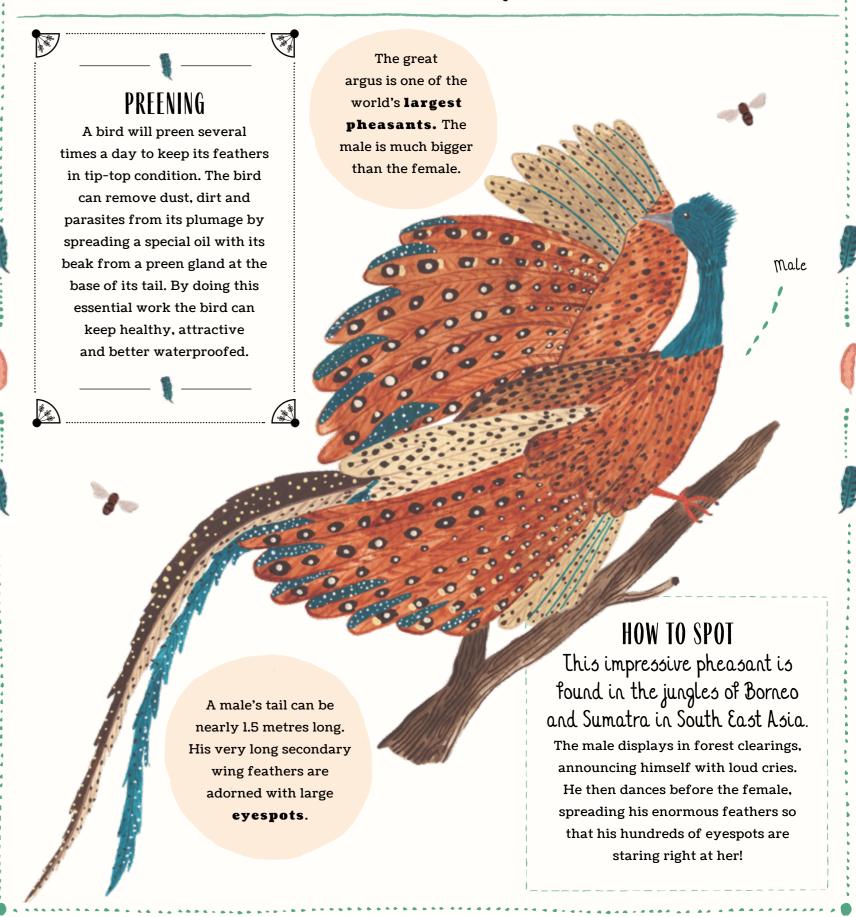
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GREAT ARGUS ARGUSIANUS ARGUS

Feathers come in all different shapes and sizes, and every shade of colour that you can imagine. The spectacular-looking great argus is a member of the pheasant family. The male will stalk around a female splaying his amazing plumes at her to try to win her affection.



FARIHOUS FFATH

FARILIOUS FFATHER

ALL ABOUT FEATHERS

Feathers grow from a bird's skin and are lightweight structures that are connected together by small hooked branches called barbules.



A bird has thousands of feathers covering its body. This is known as its plumage.

Some birds, like vultures, have featherless heads to keep them clean when feeding on a carcass.

KING-OF-SAXONY BIRD-OF-**PARADISE**

Birds-of-paradise are famous for their feathers. This species has unusual brow plumes.



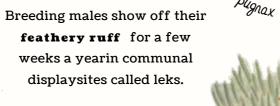
TUFTED DUCK

This very common diving duck sports its tuft in towns and cities in Europe.



feathery ruff for a few weeks a yearin communal

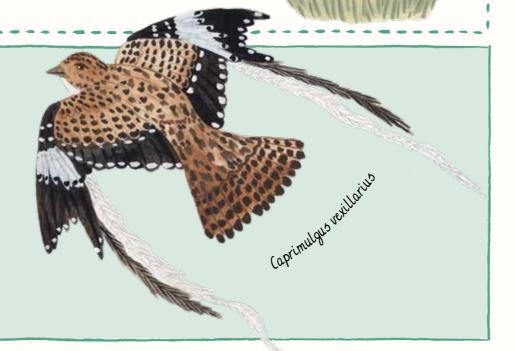


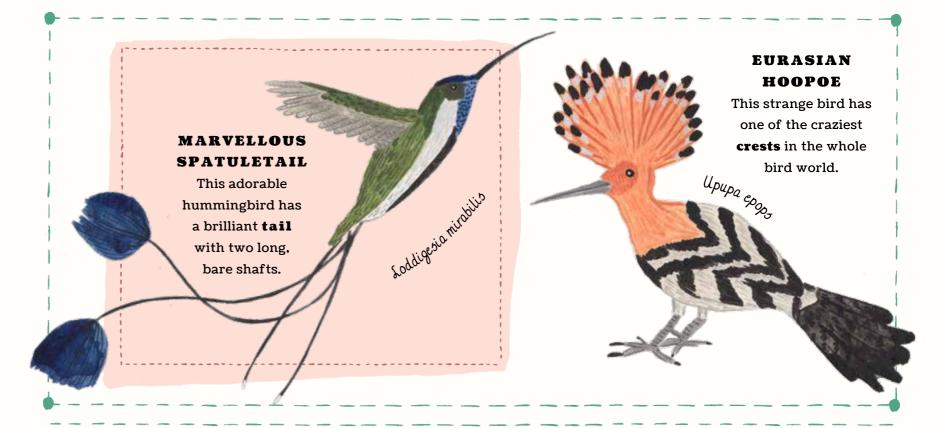


ADAPTATION

LENGTHENED FEATHERS

The male pennant-winged nightjar is very distinctive thanks to its pennant feathers, which grow to be twice as long as its body in the breeding season. It shows them off as it flies overhead to impress females during courtship displays, then loses them after mating.





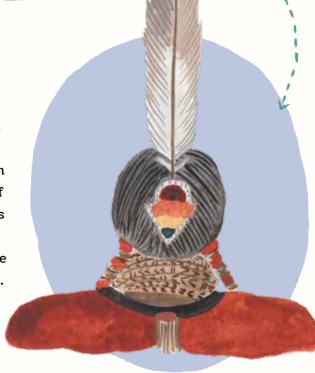
FEATHERS AROUND THE WORLD

The great argus was given its name due to the numerous eye-like patterns on its elongated wing feathers. Argus was a hundred-eyed giant in Greek mythology.

Eagle feathers are traditionally presented to the bravest, strongest and holiest members of **Indigenous American** communities.



In ancient Egypt, the goddess Ma'at would weigh a dead person's heart against an ostrich feather on the scales of justice. If the heart was heavy with sin, then the person would not be admitted into paradise.



FABULOUS FEATHERS FABULOUS FEATHERS FABULOUS FEATHERS FABULOUS FEATHERS



HARPY EAGLE HARPIA HARPYJA

**

A bird's claws are made from keratin, like our toenails. Some birds have four toes, perfect for gripping branches, while others, like the American three-toed woodpecker, have just three . . . And the ostrich is the only bird with just two toes! Most impressive of all are the huge feet belonging to the harpy eagle.

MONSTER FEET

This shy eagle is one of the biggest raptors in the world. The female harpy's feet are the size of a human hand, with huge, 13-centimetrelong talons that are often longer than those of a grizzly bear!



The **female**is much larger
than the male and
can weigh up to 9
kilograms.

emale .

HOW TO SPOT

The harpy eagle lives in the rainforests of Central and South America.

It tends to fly within the forest canopy or just above it, making it very hard to detect, but you might get a lucky glimpse of this magnificent eagle near its nesting site.

These birds do not spend much time flying in search of prey. Instead, they sit and **wait** for an unfortunate monkey to pass by before silently swooping on them.

A harpy's feet and

talons are so strong that
it can easily lift prey as
heavy as itself.

FANTASTIC FEET 7 FANTASTIC FEE

ALL ABOUT FEET

Birds' feet are adapted to their environments: waterbirds often have webbed feet for swimming, perching birds have small, strong feet for gripping branches; while flightless birds have sturdy feet for walking.



AMERICAN ROBIN

This North American bird is what's known as a perching bird, with toes pointing forwards and backwards for gripping.



COMMON SWIFT

MALLARD

The most common

duck in the world

probably has the most

famous webbed

feet, which are great

for moving in water

but less so on

solid ground.

This bird's scientific name means 'footless footless'. In actual fact, a swift has clinging feet, evolved to grip the sides of cliffs.



*Čurdus migr*atorius

This aquatic bird has really long toes which spread its weight and stop it from sinking!



SECRETARYBIRD

The secretarybird spends most of its time on the ground and kills snakes by stomping on them. It has hunting feet with razor-sharp claws, designed to cling tightly

COMMON OSTRICH

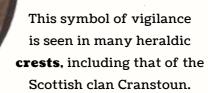
The ostrich can reach speeds of 70 kilometres per hour when running and is the fastest bird on



FEET AROUND THE WORLD

The harpy eagle is named after Harpies in Greek mythology who were fearsome creatures with female human heads and birds' bodies.

A Roman story described a crane keeping vigil while holding a rock in its raised foot; if the crane were to fall asleep, it would drop its rock and wake up.



A threelegged crow is present in many East Asian myths, and is associated with the sun.



ADAPTATION

COLD FEET

Have you ever wondered if a bird gets cold feet in freezing weather? Well, its feet are cold, but the bird doesn't feel it because it has very little fluid, muscles or nerves in its legs and feet.

Some birds, like the snowy owl, have feathered feet. This adaptation makes it easier for the owl to walk on snow.

Warm blood flows from the owl's body into the legs via an artery and then cools. But when the blood returns to its body through a vein, it warms up again, keeping the bird nice and toasty.

FANTASTIC FEET FANTASTIC FFFT FANTASTIC FEET FANTASTIC FEET



PARADISE TANAGER TANGARA CHILENSIS

Birds are colourful for many reasons. Bright feathers can help birds of the same species to recognize each other. Their feathers tell predators that they are bad-tasting or poisonous. And sometimes birds use their bright plumes to attract possible mates.



E-CATCHING COLOUR — EYE-CATCH

ALL ABOUT COLOUR

What makes a bird's plumage colourful? Well, its feathers contain two types of pigments. Firstly, melanins, which produce a range of black, grey, brown and orange colours, and secondly, carotenoids, which generate brighter colour tones.



WESTERN TRAGOPAN

Some birds have colourful patches of **skin**, like this tragopan whose featherless face features vibrant colours.



COLOURED RUSH TYRANT

This tiny South American bird has brightly coloured feathers that are green, red, yellow, white and black . . . hence its **name**!



Bee-eaters are a family of birds that feed almost exclusively on **bees**, hornets and wasps.



PAINTED BUNTING

Male painted buntings
only acquire their
bright feathers in their
second year
of life.



beautiful heron in

the world.



MANDARIN DUCK

Very few waterbirds are as colourful as this **exotic** tree-nesting water bird.

COLOURFUL BIRDS AROUND THE WORLD

The mythical **phoenix**is an immortal bird
associated with Greek
and Egyptian mythology.
It gains colourful new
life when it rises from
the dead in a shower of
red flames.



In Germany, the **Hercinia** (or arcinee) was said to live in the Hercynian Forest. Its plumage glowed like fire or sparks in the night and helped to light the way for travellers.



ADAPTATION

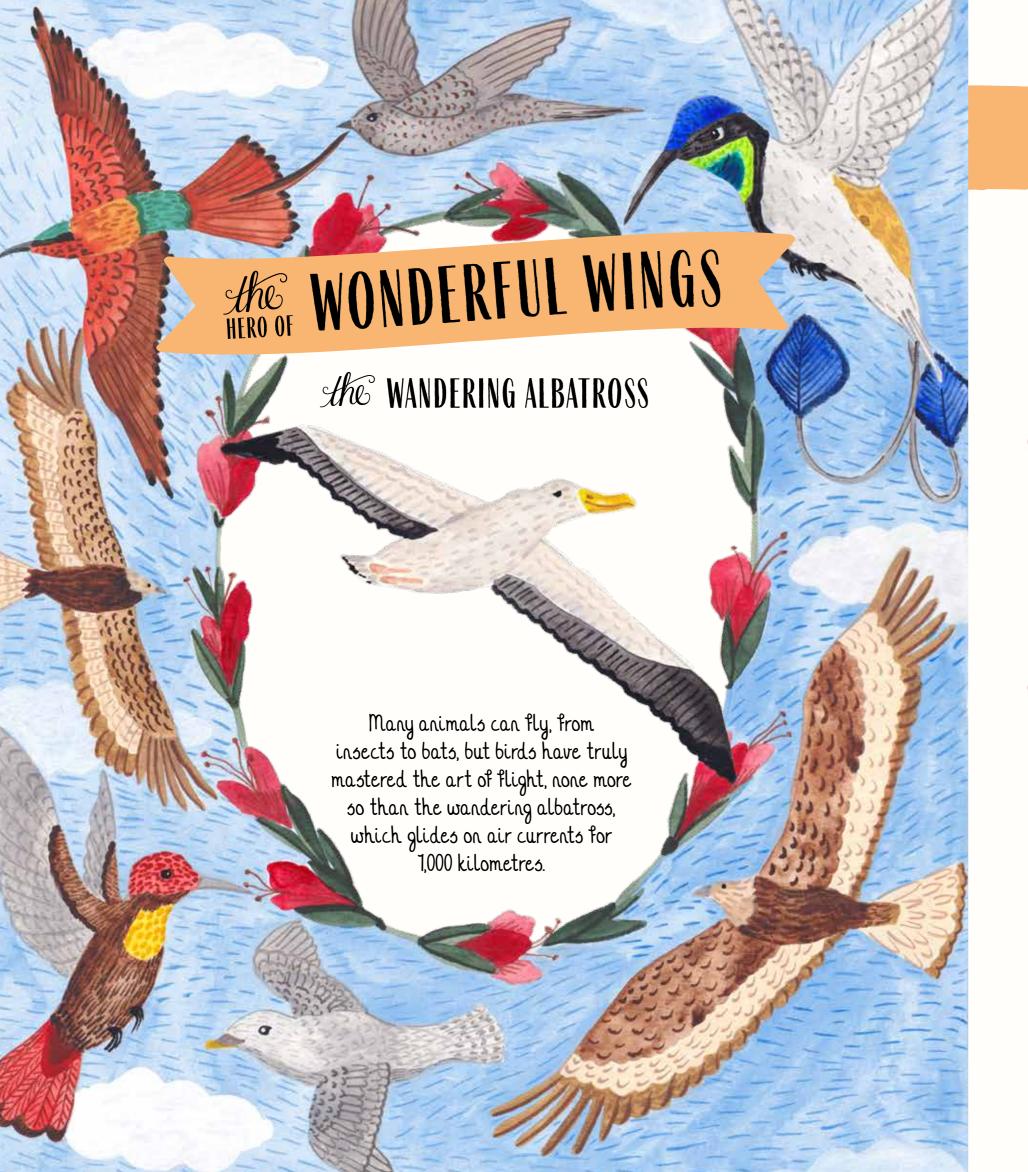
ULTRAVIOLET VISION

Some birds, like the malachite kingfisher, have eyes that are able to detect near-ultraviolet light from the sun, allowing them to see other birds' plumages in an even more dazzling way. The **structure** of their eyes has an adaptation that humans do not have that allows them to detect the light.



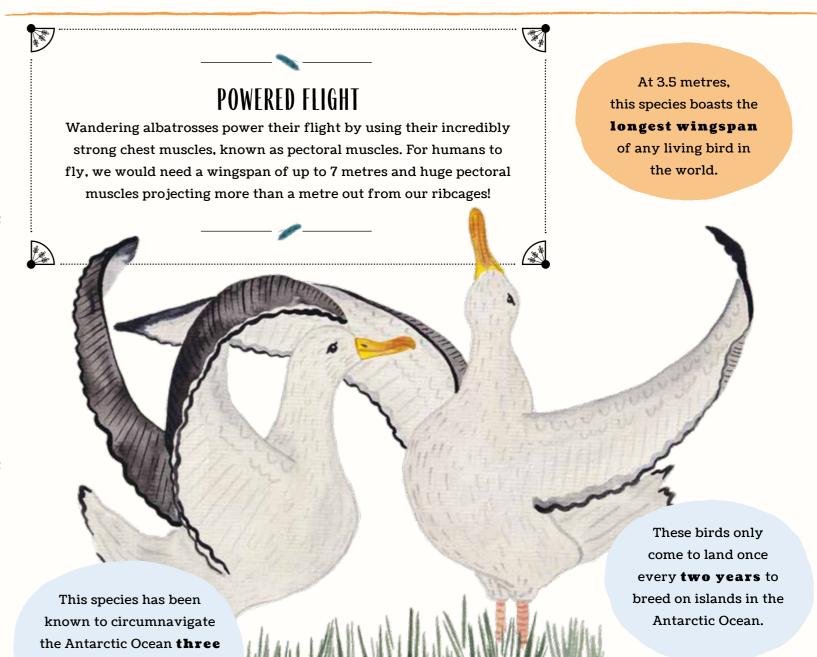
Corythornis cristatus

YE-CATCHING COLOUR EYE-CATCHING COLOUR EYE-CATCHING COLOUR EYE-CATCHING COLOUR



WANDERING ALBATROSS DIOMEDEA EXULANS

Every bird has a pair of wings - even those that can't fly! But how do birds actually fly? Birds like albatrosses have lightweight, aerodynamic bodies, hollow bones and sleek feathers, and use their wings to create lift and their tails as rudders, making them masters of the skies.



This bird is so **efficient** at flying that it can remain in the air without flapping for several hours at a time, using less energy in the air than it does

sitting on a nest.

times a year, covering more than 120.000 kilometres.

HOW TO SPOT

The best way to see these giant birds is to visit their breeding grounds.

They lay just one egg in sheltered areas around sub-Antarctic islands. Otherwise, you have to try to spot one from a ship as it flies in search of food. You could be in luck, though, as they like following vessles in the hope of receiving scraps from the sailors.

WONDERFILL WINGS WONDERFILL WINGS

ALL ABOUT WINGS

Birds have evolved a variety of different wing shapes to help them to fly. Generally speaking, birds with long and narrow wings like the albatross are experts at gliding.



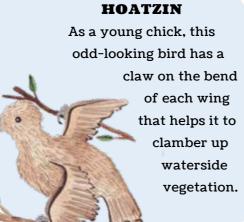
COMMON WOOD PIGEON

Some birds use their wings to communicate with their flock members. When startled, pigeons noisily explode from trees, loudly clapping their wings to alert others.



CLUB-WINGED MANAKIN

This is the only bird known to **sing** with its wings! When displaying, males first flatten their wings then snap them upright, which produces a buzz as hollowed feathers on their wings rub together.



Opisthocomus hoazin

BLACK-BREASTED KITE

This kite has broad-fingered wings, typical of birds of prey, that help it to **ride** hot air thermals and to swiftly power after its prey.



MARVELLOUS SPATULETAIL

This minute hummingbird can flap its wings up to 70 times a second, and, like the rest of its family, it can even fly **backwards**.



This bird opens its wings like an **umbrella** when hunting small fish, luring them in by creating a patch of shade beneath it.

ADAPTATION

DISPLAY FEATHERS

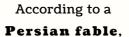
Some birds, including the Guianan cock-of-the-rock, use their wings as part of their **courtship displays**. To attract a female, the male performs an elaborate ritual, fanning his wings to show off his stunning feathers.



WINGS AROUND THE WORLD



The wandering albatross's scientific name, *Diomedea exulans*, refers to **Diomedes**, a hero in Greek mythology whose companions were turned into shearwaters (relatives of albatrosses).



King Kai Kawus tried to invade heaven on a throne with four hungry eagles chained to its legs. Each leg had a pole with meat on top. The eagles used their powerful wings to fly towards the meat, carrying the throne upwards.



In an **Indian folk tale**, elephants originally had four big wings and would cause distruction by landing on people's houses and crushing them ...

... The gods decided to stop the mayhem and cut the wings off, giving two each to the **peacocks** and two to the banana plant, which is why its leaves are so large!

WONDERFUL WINGS WONDERFUL WINGS WONDERFUL WINGS WONDERFUL WINGS WONDERFUL WINGS