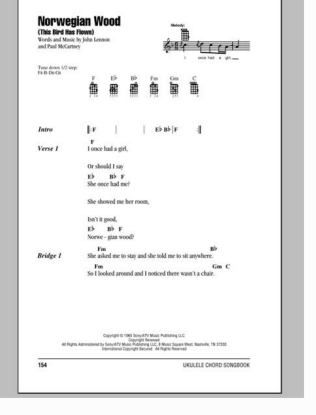
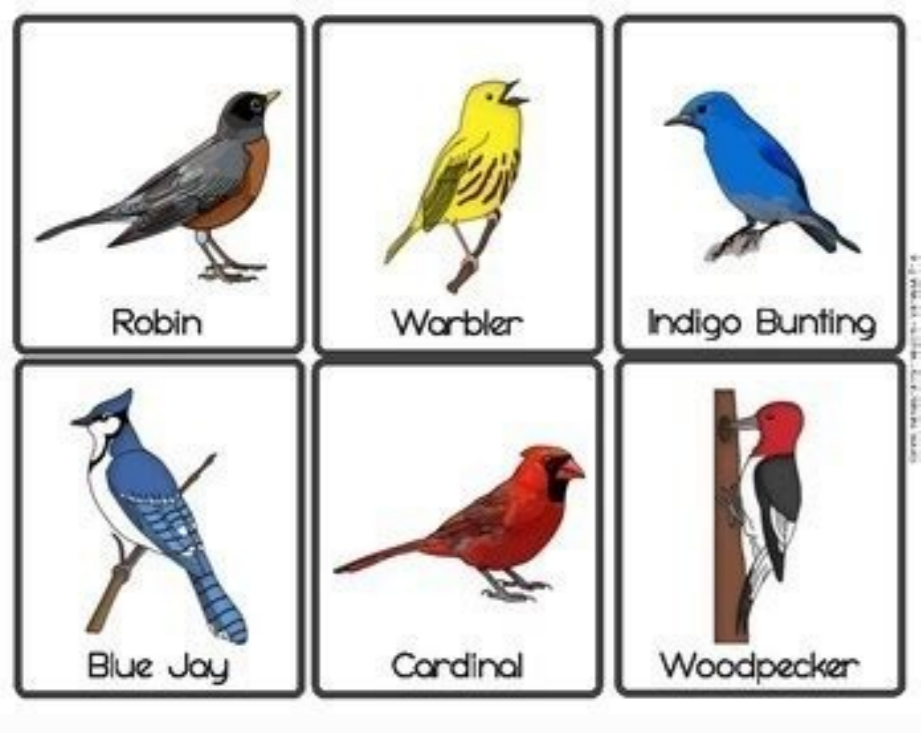
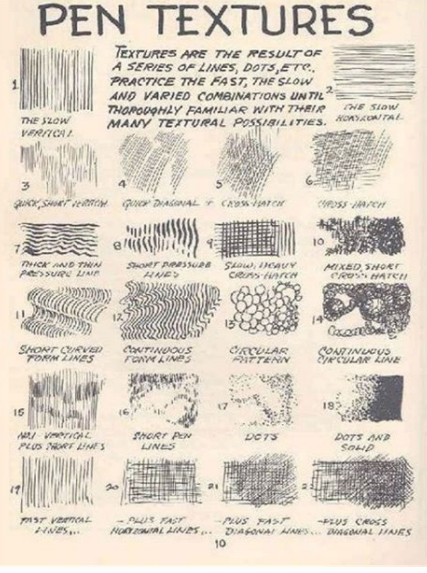
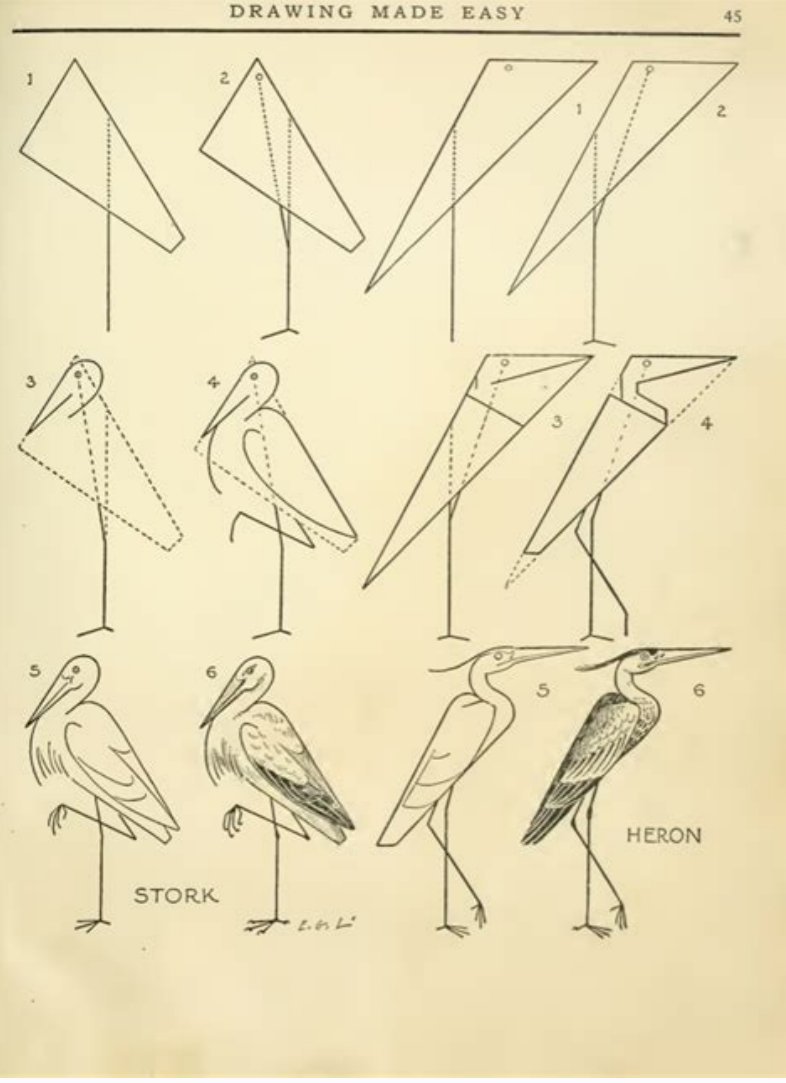


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Study of birds This article is about the field of zoology. For the jazz composition, see Ornithology (composition). A marbled godwit being ringed for studies on bird migration Part of a series on Biology Science of life Index Outline Glossary History (timeline) Key components Cell theory Ecosystem Evolution Phylogeny Properties of life Adaptation Energy processing Growth Order Regulation Response to environment Domains and Kingdoms of life Archaea Bacteria Eukarya (Animals, Fungi, Plants, Protists) Branches Anatomy Biotechnology Botany Cell biology Ecology Evolutionary biology Genetics Marine biology Microbiology Molecular biology Mycology Neuroscience Paleontology Phylogeny Physiology Protistology Virology Zoology Research Biologist (list) List of biology awards List of journals List of research methods List of unsolved problems Applications Agricultural science Biomedical sciences Health technology Pharming Biology portal Category Ornithology is a branch of zoology that concerns the "methodological study and consequent knowledge of birds with all that relates to them."^[1] Several aspects of ornithology differ from related disciplines, due partly to the high visibility and the aesthetic appeal of birds.^[2] It has also been an area with a large contribution made by amateurs in terms of time, resources, and financial support. Studies on birds have helped develop key concepts in biology including evolution, behaviour and ecology such as the definition of species, the process of speciation, instinct, learning, ecological niches, guilds, island biogeography, phylogeography, and conservation.^[3] While early ornithology was principally concerned with descriptions and distributions of species, ornithologists today seek answers to very specific questions, often using birds as models to test hypotheses or predictions based on theories. Most modern biological theories apply across life forms, and the number of scientists who identify themselves as "ornithologists" has therefore declined.^[4] A wide range of tools and techniques are used in ornithology, both inside the laboratory and out in the field, and innovations are constantly made. Most biologists who recognise themselves as "Ornithologists" study specific categories, such as Anatomy, Taxonomy, or Ecology lifestyles and behaviours. Though this can be applied to the range of all biological practises,^[5] Etymology A collection of bird skins, belonging to the family Cotinidae The word "ornithology" comes from the late 16th-century Latin ornithologia meaning "bird science" from the Greek ὄρνις ornīs ("bird") and λόγος logos ("theory, science, thought").^[6] History See also: Timeline of ornithology The history of ornithology largely reflects the trends in the history of biology, as well as many other scientific disciplines, including ecology, anatomy, physiology, paleontology, and more recently, molecular biology. Trends include the move from mere descriptions to the identification of patterns, thus towards elucidating the processes that produce these patterns. Early knowledge and study Humans have had an observational relationship with birds since prehistory, with some stone-age drawings being amongst the oldest indications of an interest in birds.^[7]^[8] Birds were perhaps important as food sources, and bones of as many as 80 species have been found in excavations of early Stone Age settlements.^[9]^[10]^[11] Waterbird and seabird remains have also been found in shell mounds on the island of Ornsay off the coast of Scotland.^[7] Geese from a wall panel from the tomb of Nefermaat, Egypt c. 2575-2551 B.C. Cultures around the world have rich vocabularies related to birds.^[12] Traditional bird names are often based on detailed knowledge of the behaviour, with many names being onomatopoeic, and still in use.^[13] Traditional knowledge may also involve the use of birds in folk medicine^[14] and knowledge of these practices are passed on through oral traditions (see ethno-ornithology).^[15]^[16] Hunting of wild birds as well as their domestication would have required considerable knowledge of their habits. Poultry farming and falconry were practised from early times in many parts of the world. Artificial incubation of poultry was practised in China around 246 BC and around at least 400 BC in Egypt.^[17] The Egyptians also made use of birds in their hieroglyphic scripts, many of which, though stylized, are still identifiable to species.^[18] Belon's comparison of birds and humans in his Book of Birds, 1555 Early written records provide valuable information on the past distributions of species. For instance, Xenophon records the abundance of the ostrich in Assyria (Anabasis, 1. 5); this subspecies from Asia Minor is extinct and all extant ostrich races are today restricted to Africa. Other old writings such as the Vedas (1500-800 BC) demonstrate the careful observation of avian life histories and include the earliest reference to the habit of brood parasitism by the Asian koel (Eudynamis scolopacea).^[19] Like writing, the early art of China, Japan, Persia, and India also demonstrate knowledge, with examples of scientifically accurate bird illustrations.^[20] Aristotle in 350 BC in his Historia Animalium^[21] noted the habit of bird migration, moulting, egg laying, and lifespans, as well as compiling a list of 170 different bird species. However, he also introduced and propagated several myths, such as the idea that swallows hibernated in winter, although he noted that cranes migrated from the steppes of Scythia to the marshes at the headwaters of the Nile. The idea of swallow hibernation became so well established that even as late as in 1878, Elliott Coues could list as many as 182 contemporary publications dealing with the hibernation of swallows and little published evidence to contradict the theory.^[22]^[23] Similar misconceptions existed regarding the breeding of barnacle geese. Their nests had not been seen, and they were believed to grow by transformations of goose barnacles, an idea that became prevalent from around the 11th century and noted by Bishop Geraldus Cambrensis (Gerald of Wales) in Topographia Hiberniae (1187).^[24] Around 77 AD, Pliny the Elder described birds, among other creatures, in his Historia Naturalis.^[25] The earliest record of falconry comes from the reign of Sargon II (722-705 BC) in Assyria. Falconry is thought to have made its entry to Europe only after AD 400, brought in from the east after invasions by the Huns and Alans. Starting from the eighth century, numerous Arabic works on the subject and general ornithology were written, as well as translations of the works of ancient writers from Greek and Syriac. In the 12th and 13th centuries, crusades and conquest had subjugated Islamic territories in southern Italy, central Spain, and the Levant under European rule, and for the first time translations into Latin of the great works of Arabic and Greek scholars were made with the help of Jewish and Muslim scholars, especially in Toledo, which had fallen into Christian hands in 1085 and whose libraries had escaped destruction. Michael Scotus from Scotland made a Latin translation of Aristotle's work on animals from Arabic here around 1215, which was disseminated widely and was the first time in a millennium that this foundational text on zoology became available to Europeans. Falconry was popular in the Norman court in Sicily, and a number of works on the subject were written in Palermo. Emperor Frederick II of Hohenstaufen (1194-1250) learned about a falconry during his youth in Sicily and later built up a menagerie and sponsored translations of Arabic texts, among which the popular Arabic work known as the Liber Mosimus by an unknown author which was translated into Latin by Theodore of Antioch from Syria in 1240-1241 as the De Scientia Venandi per Aves, and also Michael Scotus (who had removed to Palermo) translated Ibn Sīnā's Kitāb al-Hayawān of 1027 for the Emperor, a commentary and scientific update of Aristotle's work which was part of Ibn Sīnā's massive Kitāb al-Sīfā. Frederick II eventually wrote his own treatise on falconry, the De arte venandi cum avibus, in which he related his ornithological observations and the results of the hunts and experiments his court enjoyed performing.^[26]^[27] Several early German and French scholars compiled old works and conducted new research on birds. These included Guillaume Rondelet, who described his observations in the Mediterranean, and Pierre Belon, who described the fish and birds that he had seen in France and the Levant. Belon's Book of Birds (1555) is a folio volume with descriptions of some 200 species. His comparison of the skeleton of humans and birds is considered as a landmark in comparative anatomy.^[28] Volcher Coiter (1534-1576), a Dutch anatomist, made detailed studies of the internal structures of birds and produced a classification of birds, De Differentiis Avium (around 1572), that was based on structure and habits.^[29] Konrad Gesner wrote the Vogelbuch and Icones avium omnium around 1557. Like Gesner, Ulisse Aldrovandi, an encyclopedic naturalist, began a 14-volume natural history with three volumes on birds, entitled ornithologiae hoc est de avibus historiae libri XII, which was published from 1599 to 1603. Aldrovandi showed great interest in plants and animals, and his work included 3000 drawings of fruits, flowers, plants, and animals, published in 363 volumes. His Ornithology alone covers 2000 pages and included such aspects as the chicken and poultry techniques. He used a number of traits including behaviour, particularly bathing and dusting, to classify bird groups.^[30]^[31]^[32] Cover of Ulisse Aldrovandi's Ornithology, 1599 Antonio Valli da Todi, who wrote on aviculture in 1601, knew the connections between territory and song.^[33] William Turner's Historia Avium (History of Birds), published at Cologne in 1544, was an early ornithological work from England. He noted the commonness of kites in English cities where they snatched food out of the hands of children. He included folk beliefs such as those of anglers. Anglers believed that the osprey emptied their fishponds and would kill them, mixing the flesh of the osprey into their fish bait. Turner's work reflected the violent times in which he lived, and stands in contrast to later works such as Gilbert White's 1789 The Natural History and Antiquities of Selborne that were written in a tranquil era.^[28]^[34] In the 17th century, Francis Willughby (1635-1672) and John Ray (1627-1705) came up with the first major system of bird classification that was based on function and morphology rather than on form or behaviour. Willughby's Ornithologiae libri tres (1676) completed by John Ray is sometimes considered to mark the beginning of scientific ornithology. Ray also worked on Ornithologia, which was published posthumously in 1713 as Synopsis methodica avium et piscium.^[35] The earliest list of British birds, Pinax Rerum Naturalium Britannicarum, was written by Christopher Merrett in 1667, but authors such as John Ray considered it of little value.^[36] Ray did, however, value the expertise of the naturalist Sir Thomas Browne (1605-82), who not only answered his queries on ornithological identification and nomenclature, but also those of Willoughby and Merrett in letter correspondence. Browne himself in his lifetime kept an eagle, owl, cormorant, bittern, and ostrich, penned a tract on falconry, and introduced the words "incubation" and "oviparous" into the English language.^[37]^[38] An Experiment on a Bird in the Air Pump, Joseph Wright of Derby, 1768 Towards the late 18th century, Mathurin Jacques Brisson (1723-1806) and Comte de Buffon (1707-1788) began new works on birds. Brisson produced a six-volume Ornithologie in 1760 and Buffon's included nine volumes (volumes 16-24) on birds Histoire naturelle des oiseaux (1770-1785) in his work on science Histoire naturelle générale et particulière (1749-1804). Jacob Temminck sponsored François Le Vaillant [1753-1824] to collect bird specimens in Southern Africa and Le Vaillant's six-volume Histoire naturelle des oiseaux d'Afrique (1796-1808) included many non-African birds. His other bird books produced in collaboration with the artist Bartrand are considered among the most valuable illustrated guides ever produced. Louis Jean Pierre Vieillot (1748-1831) spent 10 years studying North American birds and wrote the Histoire naturelle des oiseaux de l'Amérique septentrionale (1807-1808?). Vieillot pioneered in the use of life histories and habits in classification.^[39] Alexander Wilson composed a nine-volume work, American Ornithology, published 1808-1814, which is the first such record of North American birds, significantly antedating Audubon. In the early 19th century, Lewis and Clark studied and identified many birds in the western United States. John James Audubon, born in 1785, observed and painted birds in France and later in the Ohio and Mississippi valleys. From 1827 to 1838, Audubon published The Birds of America, which was engraved by Robert Havell Sr. and his son Robert Havell Jr. Containing 435 engravings, it is often regarded as the greatest ornithological work in history. Scientific studies Early bird study focused on collectibles such as eggs and nests. The emergence of ornithology as a scientific discipline began in the 18th century, when Mark Catesby published his two-volume Natural History of Carolina, Florida, and the Bahama Islands, a landmark work which included 220 hand-painted engravings and was the basis for many of the species Carl Linnaeus described in the 1758 Systema Naturae. Linnaeus' work revolutionised bird taxonomy by assigning every species a binomial name, categorising them into different genera. However, ornithology did not emerge as a specialised science until the Victorian era—with the popularization of natural history, and the collection of natural objects such as bird eggs and skins.^[40]^[41] This specialization led to the formation in Britain of the British Ornithologists' Union in 1858. In 1859, the members founded its journal The Ibis. The sudden spurt in ornithology was also due in part to colonialism. At 100 years later, in 1959, R. E. Moreau noted that ornithology in this period was preoccupied with the geographical distributions of various species of birds.^[42] No doubt the preoccupation with widely extended geographical ornithology, was fostered by the immensity of the areas over which British rule or influence stretched less in circles.—Ticehurst^[42] David Lack's studies on population ecology sought to find the processes involved in the regulation of population based on the evolution of optimal clutch sizes. He concluded that population was regulated primarily by density-dependent controls, and also suggested that natural selection produces life-history traits that maximize the fitness of individuals. Others, such as Wynne-Edwards, interpreted population regulation as a mechanism that aided the "species" rather than individuals. This led to widespread and sometimes bitter debate on what constituted the "unit of selection".^[49] Lack also pioneered the use of many new tools for ornithological research, including the idea of using radar to study bird migration.^[54] Birds were also widely used in studies of the niche hypothesis and Georgii Gause's competitive exclusion principle. Work on resource partitioning and the structuring of bird communities through competition were made by Robert MacArthur. Patterns of biodiversity also became a topic of interest. Work on the relationship of the number of species to area and its application in the study of island biogeography was pioneered by E. O. Wilson and Robert MacArthur.^[49] These studies led to the development of the discipline of landscape ecology. A mounted specimen of a red-footed falcon John Hurrell Crook studied the behaviour of weaverbirds and demonstrated the links between ecological conditions, behaviour, and social systems.^[49]^[55]^[56] Principles from economics were introduced to the study of biology by Jerram L. Brown in his work on explaining territorial behaviour. This led to more studies of behaviour that made use of cost-benefit analyses.^[57] The rising interest in sociobiology also led to a spurt of bird studies in this area.^[49]^[58] The study of imprinting behaviour in ducks and geese by Konrad Lorenz and the studies of instinct in herring gulls by Nikolaas Tinbergen led to the establishment of the field of ethology. The study of learning became an area of interest and the study of bird songs has been a model for studies in neuroethology. The study of hormones and physiology in the control of behaviour has also been aided by bird models. These have helped in finding the proximate causes of circadian and seasonal cycles. Studies on migration have attempted to answer questions on the evolution of migration, orientation, and navigation.^[49] The growth of genetics and the rise of molecular biology led to the application of the gene-centered view of evolution to explain avian phenomena. Studies on kinship and altruism, such as helpers, became of particular interest. The idea of inclusive fitness was used to interpret observations on behaviour and life history, and birds were widely used models for testing hypotheses based on theories postulated by W. D. Hamilton and others.^[49] The new tools of molecular biology changed the study of bird systematics, which changed from being based on phenotype to the underlying genotype. The use of techniques such as DNA-DNA hybridization to study evolutionary relationships was pioneered by Charles Sibley and Jon Edward Ahlquist, resulting in what is called the Sibley-Ahlquist taxonomy. These early techniques have been replaced by newer ones based on mitochondrial DNA sequences and molecular phylogenetics approaches that make use of computational procedures for sequence alignment, construction of phylogenetic trees, and calibration of molecular clocks to infer evolutionary relationships.^[59]^[60] Molecular techniques are also widely used in studies of avian population biology and ecology.^[61] Rise to popularity The use of field glasses or telescopes for bird observation began in the 1820s and 1830s, with pioneers such as J. Dovaston (who also pioneered in the use of bird feeders), but instruction manuals did not begin to insist on the use of optical aids such as "a first-class telescope" or "field glass" until the 1880s.^[62]^[63] Page from an early field guide by Florence Augusta Merriam Bailey The rise of field guides for the identification of birds was another major innovation. The early guides such as those of Thomas Bewick (two volumes) and William Yarrell (three volumes) were cumbersome, and mainly focused on identifying specimens in the hand. The earliest of the new generation of field guides was prepared by Florence Merriam, sister of Clinton Hart Merriam, the mammalogist. This was published in 1887 in a series Hints to Audubon Workers:Fifty Birds and How to

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