

The Archaeology Of Beekeeping

The evolution of beekeeping can be traced in the changing shape of the beehive and in the various structures used to house and protect it. These range from simple recesses holding one or two straw hives in house or garden walls to large free-standing buildings which could hold up to 32 hives. The wide variety of forms reflects the wealth, occupation and idiosyncrasies of owners, the increasing knowledge of the life cycle and requirements of the honey bee and the economic climate of the day. With developments in beekeeping techniques in the nineteenth century these structures fell into disuse. Today they are often unrecognized and many are derelict or have disappeared altogether. It is hoped that this book will introduce to a wider public the various and fascinating ways in which bees were housed and will encourage the recording and preservation of those examples still to be found.

Well-documented study of bees, hives, and beekeepers, along with rare illustrations as they appear in ancient paintings, sculpture, on coins, jewelry, and Mayan glyphs.

An archaeologist takes us into the ancient world of traditional crafts to uncover their deep, original histories.

In recent years beekeepers have had to face tremendous challenges, from pests such as varroa and tracheal mites and from the mysterious but even more devastating phenomenon known as Colony Collapse Disorder (CCD). Yet in backyards and on rooftops all over the world, bees are being raised successfully, even without antibiotics, miticides, or other chemical inputs. More and more organically minded beekeepers are now using top-bar hives, in which the shape of the interior resembles a hollow log. Long lasting and completely biodegradable, a topbar hive made of untreated wood allows bees to build comb naturally rather than simply filling prefabricated foundation frames in a typical box hive with added supers. Top-bar hives yield slightly less honey but produce more beeswax than a typical Langstroth box hive. Regular hive inspection and the removal of old combs helps to keep bees healthier and naturally disease-free. Top-Bar Beekeeping provides complete information on hive management and other aspects of using these innovative hives. All home and hobbyist beekeepers who have the time and interest in keeping bees intensively should consider the natural, low-stress methods outlined in this book. It will also appeal to home orchardists, gardeners, and permaculture practitioners who look to bees for pollination as well as honey or beeswax.

The last several decades have seen a dramatic increase in interest in the Roman period on the island of Crete. Ongoing and some long-standing excavations and investigations of Roman sites and buildings, intensive archaeological survey of Roman areas, and intensive research on artifacts, history, and inscriptions of the island now provide abundant data for assessing Crete alongside other Roman provinces. New research has also meant a reevaluation of old data in light of new discoveries, and the history and archaeology of Crete is now being rewritten. The breadth of topics addressed by the papers in this volume is an indication of Crete's vast archaeological potential for contributing to current academic issues such as Romanization/acclulturation, climate and landscape studies, regional production and distribution, iconographic trends, domestic housing, economy and trade, and the transition to the late-Antique era. These papers confirm Crete's place as a fully realized participant in the Roman world over the course of many centuries but also position it as a newly discovered source of academic inquiry.

An essential guide to the health care of honey bees Honey Bee Medicine for the Veterinary Practitioner offers an authoritative guide to honey bee health and hive management. Designed for veterinarians and other professionals, the book presents information useful for answering commonly asked questions and for facilitating hive examinations. The book covers a wide range of topics including basic husbandry, equipment and safety, anatomy, genetics, the diagnosis and management of disease. It also includes up to date information on Varroa and other bee pests, introduces honey bee pharmacology and toxicology, and addresses native bee ecology. This new resource: Offers a guide to veterinary care of honey bees Provides information on basic husbandry, examination techniques, nutrition, and more Discusses how to successfully handle questions and 'hive calls' Includes helpful photographs, line drawings, tables, and graphs Written for veterinary practitioners, veterinary students, veterinary technicians, scientists, and apiarists, Honey Bee Medicine for the Veterinary Practitioner is a comprehensive and practical book on honey bee health.

Building Beehives For Dummies (9781119544388) was previously published as Building Beehives For Dummies (9781118312940). While this version features a new Dummies cover and design, the content is the same as the prior release and should not be considered a new or updated product. The easy way to build your own beehives and beekeeping equipment Building Beehives For Dummies is the follow-up book to the bestselling Beekeeping For Dummies. It provides everything you need to learn how to build some of the world's most popular hives and beekeeping accessories. For each design the book includes a detailed materials list (what lumber, hardware and fasteners you'll need), step-by-step building instructions, and illustrative drawings that show how the components all fit together. There are over a dozen plans in all, including the traditional Langstroth hive, the eight frame garden hive, designs for elevated hive stands, the Warre hive, screened bottom board, the Kenya top-bar hive, four-frame observation hive, hive top feeders, and more. The book contains introductory chapters that teach you the basic carpentry skills necessary to build any of the plans in the book. Whether you are a new beekeeper or a seasoned ol'timer, Building Beehives for Dummies provides you with the information you need to plan and succeed at building beehives (and other cool accessories). You'll discover what type of hive to build, hints on how to maintain your equipment, what bees need to stay happy and healthy, where to locate your hive, and much more. Covers "bee space," the critical technical measurement within a beehive that's crucial for easy inspection of your colonies Offers guidance on keeping both urban and suburban neighbors happy, getting proper permissions, and understanding regional laws and regulations Provides creative ideas for dressing up hives for fun and profit In today's world of self-sufficiency, back-to-basics and sustainability, building beehives is a fun hobby that both you and your bees will appreciate and benefit from. The introduction and spread of the African honey bee and its hybrids in the New World has received substantial public and scientific attention. In this book the available scientific information concerning the identification, biology, and management of the bee is reviewed. This book is particularly timely, given the recent arrival of the African bee

In Termites of the Gods, Siyakha Mguni narrates his personal journey, over many years, to discover the significance of a hitherto enigmatic theme in San rock paintings known as 'formlings'. Formlings are a painting category found across the southern African region, including South Africa, Namibia and Zimbabwe, with its densest concentration in the Matopo Hills, Zimbabwe. Generations of archaeologists and anthropologists have wrestled with the meaning of this painting theme in San cosmology without reaching consensus or a plausible explanation. Drawing on San ethnography published over the past 150 years, Mguni argues that formlings are, in fact, representations of flying termites and their underground nests, and are associated with botanical subjects and a range of larger animals considered by the San to have great power and spiritual significance. This book fills a gap in rock art studies around the interpretation and meaning of formlings. It offers an innovative methodological approach for understanding subject matter in San rock art that is not easily recognisable, and will be an invaluable reference book to students and scholars in rock art studies and archaeology.

Food production for home consumption was the basis of economic activity throughout the Anglo-Saxon period and ensuring access to an adequate food supply was a constant preoccupation. Used as payment and a medium of trade,

food was the basis of the Anglo-Saxons' system of finance and administration. Information on the production and distribution of food from the fifth to the eleventh centuries from literary and archaeological sources has been brought together for the first time to give fascinating insights into this important aspect on Anglo-Saxon life. This second handbook complements the first and brings together a vast amount of information on livestock, cereal and vegetable crops, fish, honey, and fermented drinks. Related subjects such as hospitality, charity and drunkenness are also dealt with. The extensive twenty-seven page index enables the reader to find specific information quickly.

The single best and most comprehensive guide for prospective, new and experienced hobbyist beekeepers *Beekeeping For Dummies*, 5th Edition, is one of the most popular titles in the *For Dummies* series available today. Including the latest information regarding every aspect of backyard beekeeping and honey production, this book describes how to get started, how to care for and safely handle bees, and how to maintain healthy and productive colonies. This book is loaded with up-to-date, practical examples and helpful illustrations of proven techniques and strategies for both new and seasoned hobbyist beekeepers. Some of the updates for this brand-new edition include: New information regarding the critical role that nutrition plays in the health and productivity of your bees News about the latest beekeeping products, medications, and all-natural remedies Information regarding dozens of helpful beekeeping resources Redeemable coupons from beekeeping suppliers that save the reader money *Beekeeping For Dummies* embodies the straightforward and simple approach made famous by the *For Dummies* series. Each and every reader will benefit from its accessible and approachable take on beekeeping.

Beekeeping is a sixteen-billion-dollar-a-year business. But the invaluable honey bee now faces severe threats from diseases, mites, pesticides, and overwork, not to mention the mysterious Colony Collapse Disorder, which causes seemingly healthy bees to abandon their hives en masse, never to return. In *The Quest for the Perfect Hive*, entomologist Gene Kritsky offers a concise, beautifully illustrated history of beekeeping, tracing the evolution of hive design from ancient Egypt to the present. Not simply a descriptive account, the book suggests that beekeeping's long history may in fact contain clues to help beekeepers fight the decline in honey bee numbers. Kritsky guides us through the progression from early mud-based horizontal hives to the ascent of the simple straw skep (the inverted basket which has been in use for over 1,500 years), from hive design's Golden Age in Victorian England up through the present. He discusses what worked, what did not, and what we have forgotten about past hives that might help counter the menace to beekeeping today. Indeed, while we have sequenced the honey bee genome and advanced our knowledge of the insects themselves, we still keep our bees in hives that have changed little during the past century. If beekeeping is to survive, Kritsky argues, we must start inventing again. We must find the perfect hive for our times. For thousands of years, the honey bee has been a vital part of human culture. *The Quest for the Perfect Hive* not only offers a colorful account of this long history, but also provides a guide for ensuring its continuation into the future.

This is the first book to explore in detail the world history of humankind's use of bees from prehistoric times to the present day. Both rock art and recent field studies have shown how honey hunters obtained their harvest from bees' nests. Honey has always been the chief prize, but bee brood has been eaten as meat, and beeswax has been utilized in many technologies. Bees, honey, and wax have special symbolic significance in both early beliefs and later world religions. But perhaps bees' greatest benefit has been their pollination of crops.

This is a presentation of the scientific principles underlying beekeeping management and their practical application in different conditions. It gives an account of honeybees as a world resource, both in producing honey and other hive products and as pollinators that increase yields of seed and fruit crops. It tries for the first time to present an integrated picture, with a brief summary of its history, of world beekeeping in various continents. It is the authors intention that readers will experiment with new ways in which beekeeping methods and equipment might be improved still further and with the application of new technologies and materials seek fresh conceptual approaches to beekeeping problems. This book examines the rich corpus of mosaics created in Crete during the Roman and Late Antique eras. It provides essential information on the style, iconography and chronology of the material, as well as discussion of the craftspeople who created them and the technologies they used. The contextualized mosaic evidence also reveals a new understanding of Roman and Late Antique Crete. It helps shed light on the processes by which Crete became part of the Roman Empire, its subsequent Christianization and the pivotal role the island played in the Mediterranean network of societies during these periods. This book provides an original approach to the study of mosaics and an innovative method of presenting a diachronic view of provincial Cretan society.

Everything you need to 'bee' a successful backyard beekeeper If you've ever thought about becoming a backyard beekeeper—or have already tried a hand at it and want to be better one—then this is the book for you! In *Beekeeping for Dummies*, 4th Edition you'll find everything you need to know in order to start your own colony, including how to assemble and maintain beehives, handle every phase of honey production, purchase and use all the latest tools, and what to do beyond your first season. This hands-on guide provides all the tools, tips, tricks, and techniques needed to become a real backyard beekeeper. You'll learn to identify the queen from her workers and drones, properly open and close the hive, distinguish one type of honey from another, and preserve your colony if disaster should strike. Keep bees on a small urban rooftop or in a large country yard Assemble your own hive and sustain it for years to come Safely inspect and manage your colony Harvest and sell your own honey Becoming a backyard beekeeper isn't as hard as people think—and with this hands-on guide, you'll be able to create one honey of a colony that will have the neighbors buzzing.

"From the databases of the International Bee Research Association."

This book summarizes the current progress of bee researchers investigating the status of honey bees and possible reasons for their decline, providing a basis for establishing management methods that maintain colony health. Integrating discussion of Colony Collapse Disorder, the

chapters provide information on the new microsporidian *Nosema ceranae* pathogens, the current status of the parasitic bee mites, updates on bee viruses, and the effects these problems are having on our important bee pollinators. The text also presents methods for diagnosing diseases and includes color illustrations and tables.

ABSTRACT: Such remote locations also were ideal for moonshine stills, with the beekeeping and honey production as a plausible cover operation. A significant amount of historical artifacts was [sic] recovered from both sites to merit further research. A third site, Lower Chipola Apiary (8Gu104) is a single component early-to mid- twentieth-century apiary consisting of a standing two-story honey house and scattered beekeeping equipment. Archaeological methods, historical research, and oral histories were used to document beekeeping in the Apalachicola River Valley. Exploration of beekeeping and honey production in this valley during the late nineteenth to early twentieth centuries has offered significant data on a once notable industry and way of life in northwest Florida, comparable to other agricultural industries.

A scientist before he was a beekeeper, Mark L. Winston found in his new hobby a paradigm for understanding the role science should play in society. In essays originally appearing as columns in *Bee Culture*, the leading professional journal, Winston uses beekeeping as a starting point to discuss broader issues, such as how agriculture functions under increasingly complex social and environmental restraints, how scientists grapple with issues of accountability, and how people struggle to maintain contact with the natural world. Winston's reflections on bees, beekeeping, and science cover a period of tumultuous change in North America, a time when new parasites, reduced research funding, and changing economic conditions have disrupted the livelihoods of bee farmers. Managed honeybees in the city provide a major public service by pollinating gardens, fruit trees, and berry bushes, and should be encouraged rather than legislated out of existence. Our cities, groomed and cosmopolitan as they appear, still obey the basic rules of nature, and our gardens and yards are no exception. Homegrown squashes, apple trees, raspberries, peas, beans, and other garden crops require bees to move the pollen from one flower to another, no matter how urbanized or sophisticated the neighborhood.

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Our bee populations are under threat. Over the past 60 years, they have lost much of their natural habitat and are under assault from pesticides and intensive farming. We rely on bees and other insects to pollinate our fruit and vegetables and, without them, our environment and economy will be in crisis. *The Business of Bees* provides the first integrated account of diminishing bee populations, as well as other pollinators, from an interdisciplinary perspective. It explores the role of corporate responsibility and governance as they relate to this critical issue and examines what the impact will be on consumers, companies, stock markets and ultimately on global society if bee populations continue to decline at a dangerous rate. The book considers the issue of global bee population decline from a variety of disciplines, combining the perspectives of academics in accounting, science and humanities with those of practitioners in the finance industry. The chapters explore the impact of the rapid decline in pollinator populations on the natural world, on corporations, on the stock market and on accounting. *The Business of Bees* will be essential reading for those in academia, business and finance sectors and anyone invested in the future of our planet.

The updated bestselling guide to laid-back beekeeping for all, naturally! Are you a beginner beekeeper curious about bees or a practicing beekeeper looking for natural alternatives that work? Then this book is for you! In the second edition of the bestselling beekeeping guide *Keeping Bees with a Smile*, Fedor Lazutin, one of Europe's most successful natural beekeepers, shares the bee-friendly approach to apiculture that is fun, healthful, rewarding, and accessible to all. This new edition includes dozens of color photographs, new hive management techniques, and an updated version of "Lazutin hive" plans. Additional coverage includes: Keeping bees naturally without interfering in their lives Starting an apiary for free by attracting local bee swarms Building low-maintenance hives that mimic how bees live in nature Keeping colonies healthy and strong without any drugs, sugar, or gimmickry Helping bees to overwinter successfully even in harsh climates Enhancing local nectar plant resources Producing truly natural honey without robbing the bees Reversing the global bee decline... right in your backyard! *Keeping Bees with a Smile* is an invaluable resource for apiculture beginners and professionals alike, complete with plans for making bee-friendly, well-insulated horizontal hives with extra-deep frames, plus other fascinating beekeeping advice you won't find anywhere else.

As seen on PBS's *American Spring LIVE*, the award-winning author of *The Triumph of Seeds and Feathers* presents a natural and cultural history of bees: the buzzing wee beasties that make the world go round. Bees are like oxygen: ubiquitous, essential, and, for the most part, unseen. While we might overlook them, they lie at the heart of relationships that bind the human and natural worlds. In *Buzz*, the beloved Thor Hanson takes us on a journey that begins 125 million years ago, when a wasp first dared to feed pollen to its young. From honeybees and bumbles to lesser-known diggers, miners, leafcutters, and masons, bees have long been central to our harvests, our mythologies, and our very existence. They've given us sweetness and light, the beauty of flowers, and as much as a third of the foodstuffs we eat. And, alarmingly, they are at risk of disappearing. As informative and enchanting as the waggle dance of a honeybee, *Buzz* shows us why all bees are wonders to celebrate and protect. Read this book and you'll never overlook them again.

New Approaches to the Archaeology of Beekeeping aims to take a holistic view of beekeeping archaeology (including honey, wax, and associated products, hive construction, and participants in this trade) in one large interconnected geographic region, the Mediterranean, central Europe, and the Atlantic Façade. Current interest in beekeeping is growing because of the precipitous decline of bees worldwide and the disastrous effect it portends for global agriculture. As a result, all aspects of beekeeping in all historical periods are coming under closer scrutiny. The volume focuses on novel approaches to historical beekeeping but also offers new applications of more established ways of treating apicultural material from the past. It is also keenly interested in helping readers navigate the challenges inherent in studying beekeeping historically. The volume brings together scholars working on ancient, medieval, early modern, and ethnographic evidence of beekeeping from a variety of perspectives. In this sense it will serve as a handbook for current researchers in this field and for those who wish to undertake research into the archaeology of beekeeping.

This definitive work by world-renowned bee authority Eva Crane offers a fascinating account of bees and their complex relations with both humans and animals. Comprehensive, absorbing, and lavishly illustrated, this scholarly, yet accessible volume explores how bees, honey and other bee products have been gathered and utilized throughout the world. Beginning with the rock paintings of the Mesolithic cave dwellers, readers will learn about the variety of methods used by human beekeepers, the stratagems used by animal honey-hunters, and the multitude of products humans have derived from bees. The first in-depth book on the subject, the World History of Beekeeping and Honey-Hunting is the ultimate work on bees for scholars in biology and the life sciences, professional and amateur beekeepers, and anyone who is interested in bees or the collection of honey.

This study surveys the evidence for beekeeping in the Prehistoric Aegean, from references in later literature to archaeological remains of beekeeping paraphernalia, symbolic depictions in jewelry and on seals, and the evidence of folklore and mythology. Finds of hives, smoking pots, honey extractors and so-on indicate systematic Minoan apiculture, and the authors propose that contra Evans seals can be reinterpreted as depicting apiculture, rather than religious scenes, and used by overseers of beekeeping, a high-status and highly valued industry. They even go as far as to propose an origin in bee depiction for the famous double axe motifs from Knossos.

A million pounds of honey. Produced by a billion bees! This memoir reconstructs the life of a young man from Pennsylvania as he drops into the bald prairie badlands of southern Saskatchewan. He buys a honey ranch and keeps the bees that make the honey. But he also spends winters in Florida swamps, nurse-maid to ten thousand dainty queen bees. From the dusty Canadian prairie to the thick palmetto swamps of the American south, the reader meets with simple folks who shape the protagonist's character - including a Cree rancher with three sons playing NHL hockey, a Hutterite preacher who yearns to roam the globe, a reclusive bee-eating homesteader, and a grey-headed widow who grows grapefruit, plays a nasty game of scrabble, and lives with four vicious dogs. Encompassing a ten-year period, this true story evolves from the earnest inexperience of the young man as he learns an art and builds a business. Carefully researched natural biology runs counterpoint to human social activities. Bee craft serves as the setting for expositions that contrast American and Canadian lifestyles, while exemplifying the harsh reality of a man working with and against the physical environment.

As one of the most ancient of human beverages, mead arose in part because it was easy to make. Today's hobbyists rediscover the simplicity of making mead while reveling in the range of flavors that can result. In *The Compleat Meadmaker*, veteran beverage hobbyist and meadmaker, Ken Schramm, introduces the novice to the wonders of mead. With easy-to-follow procedures and simple recipes, he shows how you can quickly and painlessly make your own mead at home. In later chapters he introduces flavorful variations on the basic theme that lead to meads flavored with spice, fruits, grapes and even malt.

Diana Sammataro and Alphonse Avitabile have revised and expanded their clear and comprehensive guide to cover changes in beekeeping. They discuss the crisis created by the parasitic bee mites. In less than a decade, for example, *Varroa* mites have saturated the North American honeybee population with disastrous results, devastating both managed and wild populations. The new edition of *The Beekeeper's Handbook* covers mite detection and control as well as the selection and testing of bees that may have some tolerance to mites.*Serves as a comprehensive well-illustrated introduction for beginners and a valuable reference for the experienced beekeeper.*Outlines options for each operation within beekeeping, listing advantages and disadvantages of each alternative.*Provides easy-to-follow directions and diagrams.*Includes glossary and updated bibliography suggesting more detailed information on the topics discussed.

According to Egyptian mythology, when the ancient Egyptian sun god Re cried, his tears turned into honey bees upon touching the ground. For this reason, the honey bee was sacrosanct in ancient Egyptian culture. From the art depicting bees on temple walls to the usage of beeswax as a healing ointment, the honey bee was a pervasive cultural motif in ancient Egypt because of its connection to the sun god Re. Gene Kritsky delivers a concise introduction of the relationship between the honey bee and ancient Egyptian culture, through the lenses of linguistics, archeology, religion, health, and economics. Kritsky delves into ancient Egypt's multifaceted society, and traces the importance of the honey bee in everything from death rituals to trade. In doing so, Kritsky brings new evidence to light of how advanced and fascinating the ancient Egyptians were. This richly illustrated work appeals to a broad range of interests. For archeology lovers, Kritsky delves into the archeological evidence of Egyptian beekeeping and discusses newly discovered tombs, as well as evidence of manmade hives. Linguists will be fascinated by Kritsky's discussion of the first documented written evidence of the honeybee hieroglyph. And anyone interested in ancient Egypt or ancient cultures in general will be intrigued by Kritsky's treatment of the first documented beekeepers. This book provides a unique social commentary of a community so far removed from modern humans chronologically speaking, and yet so fascinating because of the stunning advances their society made. Beekeeping is the latest evidence of how ahead of their times the Egyptians were, and the ensuing narrative is as captivating as every other aspect of ancient Egyptian culture.

The Archaeology of BeekeepingThe World History of Beekeeping and Honey HuntingRoutledge

The future role of dwarf honeybees in natural and agricultural systems provides multidisciplinary perspective about the different facets of dwarf honeybees. The role of dwarf honeybee *Apis florea* assumes utmost importance in the context of pollinator decline throughout the world threatening stability of ecosystems and global food security. *Apis florea* is a low land species of south Asia extending more to the west than other Asiatic *Apis* species. It is an important pollinator of crops in hot and dry agricultural plains. The book is first of its kind which deals in details on varied aspects of *Apis florea* biology, management, conservation strategies for protecting biodiversity and enhancing crop productivity. The book aims to promote a large, diverse, sustainable, and dependable bee pollinator workforce that can meet the challenge for optimizing food production well into the 21st century. Features: *Apis florea* provides source of livelihood in mountainous areas and marginal farmers. This book will for the first time present the beekeeping

from the perspective of agricultural production and biodiversity conservation An excellent source of advanced study material for academics, researchers and students and programme planners Excellent pollinator of tropical and subtropical crops fruits vegetables etc less prone to diseases and enemies Covering the latest information on various aspects of *Apis florea* biology, this book brings the latest advances together in a single volume for researchers and advanced level students This book will be useful to pollination biologists, honeybee biologists in entomology departments, students, teachers, scientists of agriculture, animal behaviour, botany, conservation, biology, ecology, entomology, environmental biology, forestry, genetics, plant breeding, horticulture, toxicology, zoology, seed growers and seed agencies and shall serve as reference book for students, teachers, researchers, extension functionaries and policy planners.

A charming and practical guide for anyone wishing to keep bees, accompanying the would-be beekeeper through every season of the bee-keeping year. From spring awakening and summer swarms to the autumn honey harvest and providing winter protection, this essential resource guides you each step of the way. There is extensive advice for beekeeping beginners, from siting and smoking your hives to rearing a queen and controlling your swarm. There is also in-depth information for improvers and more experienced apiarists who wish to experiment with different hive-management and queen-rearing techniques. Troubleshooting tips on protecting your hives and keeping your bees healthy are also covered. The book is also packed with practical advice on using beeswax, and of course, extracting and making the tastiest honey.

The study of monasteries has come a long way since late the late 19th century. The emphasis has shifted away from reconstructing the layouts of monastic buildings to a better understanding of the wider monastic environment. The papers in this volume, partly based on a conference held in Oxford in 1994, are written by some of today's foremost scholars and reflect the diversity of research now being carried out.

Honey: A Miraculous Product of Nature summarizes the current status of honey, its uses and related aspects. This illustrated volume describes use of honey in traditional medicines, i.e. Ayurveda, Siddha, and Unani by acting as a preservative and nourishing agent.

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