

Daniel Chamovitz

WHAT A PLANT KNOWS

UPDATED AND EXPANDED EDITION

"The reader will . . . find
enough startling science to
conclude that plants continue
to surprise and amaze us. We
must, as Jane Marshall says . . .

"to get ourselves back in
the garden" and take a closer
look at plants."

—BILL LATO,
The Wall Street Journal

*A Field Guide
to the Senses*



What A Plant Knows A Field Guide To The Senses

**Katherine E. Bishop, David
Higgins, Jerry Määttä**



What A Plant Knows A Field Guide To The Senses:

What a Plant Knows Daniel Chamovitz, 2020-10-06 Thoroughly updated from root to leaf this revised edition of the groundbreaking *What a Plant Knows* includes new revelations for lovers of all that is vegetal and verdant. Plants can hear and taste things too. The renowned biologist Daniel Chamovitz builds on the original edition to present an intriguing look at how plants themselves experience the world from the colors they see to the schedules they keep and now what they do in fact hear and how they are able to taste. A rare inside look at what life is really like for the grass we walk on, the flowers we sniff and the trees we climb. *What a Plant Knows* offers a greater understanding of their place in nature. [What a Plant Knows](#)

Daniel Chamovitz, 2012-05-22 Explores the secret lives of various plants from the colors they see to whether or not they really like classical music to their ability to sense nearby danger. [What a Plant Knows](#)

Daniel Chamovitz, 2013-03-07 How does a Venus flytrap know when to snap shut? Can an orchid get jet lag? Does a tomato plant feel pain when you pluck a fruit from its vines? And does your favourite fern care whether you play Bach or the Beatles? Combining cutting edge research with lively storytelling, biologist Daniel Chamovitz explores how plants experience our shared Earth through sight, smell, touch, hearing, memory and even awareness. Whether you are a green thumb, a science buff, a vegetarian or simply a nature lover, this rare inside look at the life of plants will surprise and delight.

What a Plant Knows Daniel Chamowitz, 2012 A captivating journey into the inner lives of plants from the colours they see to the schedules they keep. How does a Venus flytrap know when to snap shut? Can it feel an insect's spindly legs? How do roses know when it's spring? Do they remember the weather? Now in *What a Plant Knows*, renowned biologist Daniel Chamovitz presents a beguiling exploration of how plants experience our shared Earth in terms of sight, smell, taste, touch, hearing, memory and even awareness. Combining cutting edge research with lively storytelling, Chamovitz explains phenomena such as how a willow tree knows when its neighbours have been commandeered by an army of ravenous beetles and why an avocado ripens when you give it the company of a banana in a bag. And he settles the debate once and for all over whether your beloved basil plant cares if you play Led Zeppelin or Bach. Chamovitz reveals that plants have much in common with people: far more than most of us realise. Whether you have a green thumb or are a science buff, a vegetarian or simply a nature lover, this rare inside look at the life of plants will delight all who read it.

Plants in Science Fiction Katherine E. Bishop, David Higgins, Jerry Määttä, 2020-05-01 This is the first volume of its kind. *Plants in Science Fiction* shows how considerations of plant life in SF can transform our understanding of institutions and boundaries, erecting and dismantling new visions of utopian and dystopian futures. Its original essays argue that plant life in SF is transforming our attitudes toward morality, politics, economics and cultural life.

[Flowers and Honeybees](#)

Christopher Ketchum, 2020-05-11 Can we discover morality in nature? *Flowers and Honeybees* extends the considerable scientific knowledge of flowers and honeybees through a philosophical discussion of the origins of morality in nature. Flowering plants and honeybees form a social group where each requires the other. They do not intentionally harm each other.

both reason and they do not compete for commonly required resources They also could not be more different Flowering plants are rooted in the ground and have no brains Mobile honeybees can communicate the location of flower resources to other workers We can learn from a million year old social relationship how morality can be constructed and maintained over time

The Science of Sports: Winning in the Olympics Scientific American Editors, 2012-07-13 The Science of Sports Winning in the Olympics by the editors of Scientific American The Olympics are the world's most prestigious stage for athletic competition Fans both casual and hardcore tune in religiously every few years to watch as men and women push themselves to the limits of human performance But what makes a champion Is it genetics Hours of training A psychological advantage Of all the athletes who dedicate their lives and bodies to achieving that perfect moment of triumph why will one person or team win out over another Science has some compelling answers and in this book The Science of Sports Winning in the Olympics Scientific American explores this topic from various angles Beginning with Section 1 The Psychology of Winning the book opens with a look inside the mind of an elite athlete and tackles questions of how to face a rivalry or maintain a positive attitude in the face of defeat Other sections discuss the sticky issues surrounding genetic advantages and physical prowess drugs and doping injury and recovery and finally the latest scientific advice for the rest of us mere mortals to be fit and healthy You'll find both inspiration and answers in this indispensable book from the editors of Scientific American the leading authority on science technology and innovation

Signs in the Dust Nathan Lyons, 2019-02-28 Modern thought is characterized by a dichotomy of meaningful culture and unmeaning nature Signs in the Dust uses medieval semiotics to develop a new theory of nature and culture that resists this familiar picture of things Through readings of Thomas Aquinas Nicholas of Cusa and John Poincaré John of St Thomas it offers a semiotic analysis of human culture in both its anthropological breadth as an enterprise of creaturely sign making and its theological height as a finite participation in the Trinity which can be understood as an absolute cultural nature Signs in the Dust then extends this account of human culture backwards into the natural depth of biological and physical nature It puts the biosemiotics of its medieval sources along with Félix Ravaisson's philosophy of habit into dialogue with the Extended Evolutionary Synthesis that is emerging in contemporary biology to show how all living things participate in semiosis so that that a cultural dimension is present through the whole order of nature and the whole of natural history It also retrieves Aquinas doctrine of intentions in the medium to show how signification can be attributed in a diminished way to even inanimate nature with the ontological implication that being as such should be reconceived in semiotic terms The phenomena of human culture are therefore to be understood not as breaks with a meaningless nature but instead as heightenings and deepenings of natural movements of meaning that long precede and far exceed us Against the modern divorce of nature and culture Signs in the Dust argues that culture is natural and nature is cultural through and through

Life Writing in the Anthropocene Jessica White, Gillian Whitlock, 2021-05-27 Life Writing in the Anthropocene is a collection of timely and original approaches to the question of what constitutes a life

how that life is narrated and what lives matter in autobiography studies in the Anthropocene This era is characterised by the geoengineering impact of humans which is shaping the planet's biophysical systems through the combustion of fossil fuels production of carbon unprecedented population growth and mass extinction These developments threaten the rights of humans and other than humans to just and sustainable lives In exploring ways of representing life in the Anthropocene this work articulates innovative literary forms such as ecobiography the representation of a human subject's entwinement with their environment phytography writing the lives of plants and ethological poetics the study of nonhuman poetic forms providing scholars and writers with innovative tools to think and write about our strange new world In particular its recognition on plant life reminds us of how human lives are entwined with vegetal lives The creative and critical essays in this book shaped by a number of Antipodean authors bear witness to a multitude of lives and deaths The chapters in this book were originally published as a special issue of a b Auto Biography Studies *Nature's Fabric* David Lee, 2017-09-28

Leaves are all around us in backyards cascading from window boxes even emerging from small cracks in city sidewalks given the slightest glint of sunlight Perhaps because they are everywhere it's easy to overlook the humble leaf but a close look at them provides one of the most enjoyable ways to connect with the natural world A lush incredibly informative tribute to the leaf *Nature's Fabric* offers an introduction to the science of leaves weaving biology and chemistry with the history of the deep connection we feel with all things growing and green Leaves come in a staggering variety of textures and shapes they can be smooth or rough their edges smooth lobed or with tiny teeth They have adapted to their environments in remarkable often stunningly beautiful ways from the leaves of carnivorous plants which have tiny trigger hairs that signal the trap to close to the impressive defense strategies some leaves have evolved to reduce their consumption Recent studies suggest for example that some plants can detect chewing vibrations and mobilize potent chemical defenses In many cases we've learned from the extraordinary adaptations of leaves such as the invention of new self cleaning surfaces inspired by the slippery coating found on leaves But we owe much more to leaves and Lee also calls our attention back to the fact that that our very lives and the lives of all on the planet depend on them Not only is foliage is the ultimate source of food for every living thing on land its capacity to cycle carbon dioxide and oxygen can be considered among evolution's most important achievements and one that is critical in mitigating global climate change Taking readers through major topics like these while not losing sight of the small wonders of nature we see every day if you'd like to identify a favorite leaf Lee's glossary of leaf characteristics means you won't be left out on a limb *Nature's Fabric* is eminently readable and full of intriguing research sure to enhance your appreciation for these extraordinary green machines *Vegetal Entwinements in Philosophy and Art* Giovanni Aloi, Michael Marder, 2023-07-04 The first reader in critical plant studies exploring a rapidly growing multidisciplinary field the intersection of philosophy with plant science and the visual arts In recent years philosophy and art have testified to how anthropocentrism has culturally impoverished our world leading to the wide destruction of habitats and

ecosystems In this book Giovanni Aloï and Michael Marder show that the field of critical plant studies can make an important contribution offering a slew of possibilities for scientific research local traditions Indigenous knowledge history geography anthropology philosophy and aesthetics to intersect inform one another and lead interdisciplinary and transcultural dialogues Vegetal Entwinements in Philosophy and Art considers such topics as the presence of plants in the history of philosophy the shifting status of plants in various traditions what it means to make art with growing life forms and whether or not plants have moral standing In an experimental vegetal arrangement the reader presents some of the most influential writing on plants philosophy and the arts together with provocative new contributions as well as interviews with groundbreaking contemporary artists whose work has greatly enhanced our appreciation of vegetal being Contributors Catriona A H Sandilands Giovanni Aloï Marlene Atleo Monica Bakke Emily Blackmer Jodi Brandt Teresa Castro Dan Choffness D Denenge Duyst Akpem Mark Dion Elisabeth E Schussler Braden Elliott Monica Gagliano Elaine Gan Prudence Gibson James H Wandersee Manuela Infante Luce Irigaray Nicholas J Reo Jonathon Keats Zayaan Khan Robin Wall Kimmerer Eduardo Kohn Stefano Mancuso Michael Marder Anguezomo Mba Bikoro Elaine Miller Samaneh Moafi Uriel Orlow Mark Payne Allegra Pesenti pela Petri Michael Pollan Darren Ranco Angela Roothaan Marcela Salinas Diana Scherer Vandana Shiva Linda Tegg Maria Theresa Alves Krista Tippet Anthony Trewavas Alessandra Viola Eduardo Viveiros de Castro B W Mathai Wangari Lois Weinberger Kyle Whyte David Wood Anicka Yi **The Routledge Handbook of Trans Literature** Douglas A.

Vakoch, Sabine Sharp, 2024-04-30 The Routledge Handbook of Trans Literature examines the intersection of transgender studies and literary studies bringing together essays from global experts in the field This volume provides a comprehensive overview of trans literature highlighting the core topics genres and periods important for scholarship now and in the future Covering the main approaches and key literary genres of the area this volume includes Examination of the core topics guiding contemporary trans literary theory and criticism including the Anthropocene archival speculation activism BDSM Black studies critical plant studies culture diaspora disability ethnocentrism home inclusion monstrosity nondualist philosophies nonlinearity paradox pedagogy performativity poetics religion suspense temporality visibility and water Exploration of diverse literary genres forms and periods through a trans lens such as archival fiction artificial intelligence narratives autobiography climate fiction comics creative writing diaspora fiction drama fan fiction gothic fiction historical fiction manga medieval literature minor literature modernist literature mystery and detective fiction nature writing poetry postcolonial literature radical literature realist fiction Renaissance literature Romantic literature science fiction travel writing utopian literature Victorian literature and young adult literature This comprehensive volume will be of great interest to scholars and students of literature gender studies trans studies literary theory and literary criticism **Fellow Creatures** Christine M. Korsgaard, 2018-06-18 Christine M Korsgaard presents a compelling new view of humans moral relationships to the other animals She defends the claim that we are obligated to treat all sentient beings as what Kant called ends in

themselves Drawing on a theory of the good derived from Aristotle she offers an explanation of why animals are the sorts of beings for whom things can be good or bad She then turns to Kant s argument for the value of humanity to show that rationality commits us to claiming the standing of ends in ourselves in two senses Kant argued that as autonomous beings we claim to be ends in ourselves when we claim the standing to make laws for ourselves and each other Korsgaard argues that as beings who have a good we also claim to be ends in ourselves when we take the things that are good for us to be good absolutely and so worthy of pursuit The first claim commits us to joining with other autonomous beings in relations of moral reciprocity The second claim commits us to treating the good of every sentient creature as something of absolute importance Korsgaard argues that human beings are not more important than the other animals that our moral nature does not make us superior to the other animals and that our unique capacities do not make us better off than the other animals She criticizes the marginal cases argument and advances a new view of moral standing as attaching to the atemporal subjects of lives She criticizes Kant s own view that our duties to animals are indirect and offers a non utilitarian account of the relation between pleasure and the good She also addresses a number of directly practical questions whether we have the right to eat animals experiment on them make them work for us and fight in our wars and keep them as pets and how to understand the wrong that we do when we cause a species to go extinct *The Wisdom of Trees* David Macauley, Laura Pustarfi, 2025-06-01

Pioneering essays that reveal the significance of new interdisciplinary understandings of trees and forests especially in terms of their philosophical and ecological dimensions and their importance for addressing the climate emergency This is the first book to apply philosophical thinking to trees Through a series of sixteen diverse essays by leading scholars and writers along with an in depth introduction to the key issues and ideas it examines the new and emerging understanding of trees in science and society Contributors show how these developments encourage a revisioning of philosophical thought and a more sustainable relationship with trees and forests a reconceptualization with important ecological and social implications for responding to deforestation the loss of biodiversity and the climate emergency The interdisciplinary contributions in this collection investigate the many interconnected dimensions of arboreality focusing on subjects related to time mind truth memory being beauty goodness silence wisdom personhood and death The volume engages in a conversation about why trees matter how they can best be protected our obligations to them and even what or who they are Most of the chapters are informed by natural history or ecological science and many share a particular emphasis on continental philosophy and the environmental humanities **Rendezvous with the Sensuous** John Murungi, 2014-03-17 In *Rendezvous with the Sensuous* readers are drawn to and become situated within the dynamic place of the aesthetic experience While there human sensuousness comes into relief as it combines with the sensuousness that derives from nature In this complex place where artistic expression coalesces with the natural world readers are extended an invitation to share in the journey of a richly diverse synesthetic experience and to gain a greater appreciation of the important place of the sensuous in illuminating the

role of aesthetics in the world of ideas **Ninja Plants** Wiley Blevins, 2017-01-01 What can communicate but has no mouth and can attack but has no hands A plant You might love the beauty and fragrance of flowers but plants are far more complex than meets the eye Some plants have ways of luring insects for pollination Others mimic the look of the female insects whose male counterparts they want to attract The Venus flytrap eats insects and other small animals for extra nourishment You might see some of these ninja plants with their sneaky and deceitful ways in your own backyard These plants might even be sitting on a windowsill in your home This fascinating world of ninja plants is waiting to be discovered **The Language of Plants** Monica Gagliano, John C. Ryan, Patrícia Vieira, 2017-04-25 The eighteenth century naturalist Erasmus Darwin grandfather of Charles argued that plants are animate living beings and attributed them sensation movement and a certain degree of mental activity emphasizing the continuity between humankind and plant existence Two centuries later the understanding of plants as active and communicative organisms has reemerged in such diverse fields as plant neurobiology philosophical posthumanism and ecocriticism The Language of Plants brings together groundbreaking essays from across the disciplines to foster a dialogue between the biological sciences and the humanities and to reconsider our relation to the vegetal world in new ethical and political terms Viewing plants as sophisticated information processing organisms with complex communication strategies they can sense and respond to environmental cues and play an active role in their own survival and reproduction through chemical languages radically transforms our notion of plants as unresponsive beings ready to be instrumentally appropriated By providing multifaceted understandings of plants informed by the latest developments in evolutionary ecology the philosophy of biology and ecocritical theory The Language of Plants promotes the freedom of imagination necessary for a new ecological awareness and more sustainable interactions with diverse life forms Contributors Joni Adamson Arizona State U Nancy E Baker Sarah Lawrence College Karen L F Houle U of Guelph Luce Irigaray Centre National de la Recherche Scientifique Paris Erin James U of Idaho Richard Karban U of California at Davis Andr Kessler Cornell U Isabel Kranz U of Vienna Michael Marder U of the Basque Country UPV EHU Timothy Morton Rice U Christian Nansen U of California at Davis Robert A Raguso Cornell U Catriona Sandilands York U *The Light of Plants* Ali Gulhan, 2023-05-24 The apple that fell on Newton's head the hemlock that poisoned Socrates the sunflower that inspired Van Gogh the olive branch that signaled the end of the war to Noah the laurel in Apollo's crown the black pepper that led to the discovery of America the potato that caused millions of people to migrate From the plants we grow outside our windows to the trees in forests plants have been deeply connected throughout history This book aims to look at these unrecognized connections from a different perspective We hope that the light that plants add to our lives will also enlighten the readers *Seeds of Resistance* Mark Schapiro, 2018-09-18 Sun Soil Water Seed These are the primordial ingredients for the most essential activity of all on earth growing food All of these elements are being changed dramatically under the pressures of corporate consolidation of the food chain which has been accelerating just as climate change is profoundly altering the

conditions for growing food In the midst of this global crisis the fate of our food has slipped into a handful of the world's largest companies Food Chained will bring home what this corporate stranglehold is doing to our daily diet from the explosion of genetically modified foods to the rapid disappearance of plant varieties to the elimination of independent farmers who have long been the bedrock of our food supply Food Chained will touch many nerves for readers including concerns about climate change chronic drought in essential farm states like California the persistence of the junk food culture the proliferation of GMOs and the alarming domination of the seed market and our very life cycle by global giants like Monsanto But not all is bleak when it comes to the future of our food supply Food Chained will also present hopeful stories about farmers consumer groups and government agencies around the world that are resisting the tightening corporate squeeze on our food chain

Beyond Human Maryanne L. Leone, Shanna Lino, 2023-10-02 Chronicling sixteenth century Spain to the present day Beyond Human aims to decentre the human and acknowledge the material historicity of more than human nature The book explores key questions relating to ecological equity justice and responsibility within and beyond Spain in the Anthropocene Examining relations between Iberian cultural practices historical developments and ecological processes Maryanne L. Leone Shanna Lino and the contributors to this volume reveal the structures that uphold and dismantle the non human human dichotomy and nature culture divide The book critiques works from the Golden Age to the twenty first century in a wide range of genres including comedia royal treatises agricultural reports paintings satirical essays horror fiction and film young adult and speculative literature poetry graphic novels and television series The authors contend that Spanish cultural studies must expose the material historicity that entangles today's ecological crises and ecosocial injustices with previous future and contemporary entities The book argues that this will require the simultaneous decentring of the human and of the Anthropocene as an ecocritical framework By standardizing ecosocial analysis and widening avenues for ecopedagogical approaches Beyond Human participates in the ecocentric transformation of Hispanic cultural studies

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