

THE NATURE OF CODE

SIMULATING NATURAL SYSTEMS
WITH JAVASCRIPT

GABRIEL CHITTAMBA



The Nature Of Code Simulating Natural Systems With Processing

Xiaoxi Li, Ye Zhang



The Nature Of Code Simulating Natural Systems With Processing:

The Nature of Code Daniel Shiffman, 2012 How can we capture the unpredictable evolutionary and emergent properties of nature in software How can understanding the mathematical principles behind our physical world help us to create digital worlds This book focuses on a range of programming strategies and techniques behind computer simulations of natural systems from elementary concepts in mathematics and physics to more advanced algorithms that enable sophisticated visual results Readers will progress from building a basic physics engine to creating intelligent moving objects and complex systems setting the foundation for further experiments in generative design Subjects covered include forces trigonometry fractals cellular automata self organization and genetic algorithms The book's examples are written in Processing an open source language and development environment built on top of the Java programming language On the book's website <http://www.natureofcode.com> the examples run in the browser via Processing's JavaScript mode

The Nature of Code Daniel Shiffman, 2024-09-03 All aboard The Coding Train This beginner friendly creative coding tutorial is designed to grow your skills in a fun hands on way as you build simulations of real world phenomena with The Coding Train YouTube star Daniel Shiffman What if you could re create the awe inspiring flocking patterns of birds or the hypnotic dance of fireflies with code For over a decade The Nature of Code has empowered countless readers to do just that bridging the gap between creative expression and programming This innovative guide by Daniel Shiffman creator of the beloved Coding Train welcomes budding and seasoned programmers alike into a world where code meets playful creativity This JavaScript based edition of Shiffman's groundbreaking work gently unfolds the mysteries of the natural world turning complex topics like genetic algorithms physics based simulations and neural networks into accessible and visually stunning creations Embark on this extraordinary adventure with projects involving A physics engine Simulate the push and pull of gravitational attraction Flocking birds Choreograph the mesmerizing dance of a flock Branching trees Grow lifelike and organic tree structures Neural networks Craft intelligent systems that learn and adapt Cellular automata Uncover the magic of self organizing patterns Evolutionary algorithms Play witness to natural selection in your code Shiffman's work has transformed thousands of curious minds into creators breaking down barriers between science art and technology and inviting readers to see code not just as a tool for tasks but as a canvas for boundless creativity Whether you're deciphering the elegant patterns of natural phenomena or crafting your own digital ecosystems Shiffman's guidance is sure to inform and inspire The Nature of Code is not just about coding it's about looking at the natural world in a new way and letting its wonders inspire your next creation Dive in and discover the joy of turning code into art all while mastering coding fundamentals along the way NOTE All examples are written with p5.js a JavaScript library for creative coding and are available on the book's website

Context-Aware Systems and Applications, and Nature of Computation and Communication Phan Cong Vinh, Vangalur Alagar, 2018-12-29 This book constitutes the refereed post conference proceedings of the International

Conferences ICCASA and ICTCC 2018 held in November 2018 in Viet Tri City Vietnam The 20 revised full papers presented were carefully selected from 30 submissions The papers of ICCASA cover a wide spectrum in the area of context aware systems CAS is characterized by its self facets such as self organization self configuration self healing self optimization self protection used to dynamically control computing and networking functions The papers of ICTCC cover formal methods for self adaptive systems and discuss natural approaches and techniques for computation and communication Architectonics and Parametric Thinking Frank Jacobus, Angie Carpenter, Rachel Smith Loerts, Antonello Nunzio, Francesco Bedeschi, 2023-07-12 This book is an approachable guide for students and professionals to learn parametric modeling through the lens of architectonics allowing readers to pair fundamental ideas about architecture with parametric thinking Architectonics and Parametric Thinking begins by clearly positioning the potentials of parametric design through a series of chapters written by leaders in their respective industries This helps to situate the vast potential of parametric softwares allowing the reader to understand the full range of what is made possible by working computationally Following this theoretical introduction the book presents a manual that walks readers through the step by step construction of parametric modeling scripts built through an architectonic lens using clear compelling diagrams Each of these diagrams provide textual accompaniment that describes how each new portion of the script is transforming the algorithm as a whole as well as diagrams that show the physical transformation that is taking place as a result of the script s evolution Parametric modeling is radically transforming the design disciplines and will become the primary way designer s generate new products moving forward Written and expertly designed for architecture students and professionals this book provides an interactive approach to teaching the basics of parametric thinking in relation to architecture and design **Novel and Intelligent Digital Systems: Proceedings of the 4th International Conference (NiDS 2024)** Phivos Mylonas, Dimitris Kardaras, Jaime Caro, 2024-10-15 This book compiles the research findings presented at the 4th International Conference on Novel Intelligent Digital Systems NiDS 2024 which took place in Athens Greece on September 25 27 2024 hosted by the University of West Attica NiDS 2024 was conducted in a hybrid format offering participants the flexibility to join either online or in person The conference highlighted the latest innovations in intelligent systems and emphasized the collaborative research that advances Artificial Intelligence AI in software development It served as a platform for high quality research providing a space to explore challenges and innovations in AI NiDS 2024 referred to experts researchers and scholars in artificial and computational intelligence as well as the broader field of computer science offering insights into interconnected and complementary areas By promoting the exchange of ideas the conference aimed to strengthen and expand the network of researchers academics and industry professionals **Formal Methods in Architecture and Urbanism** David Leite Viana, Franklim Morais, Jorge Vieira Vaz, 2018-07-27 The book promotes the use of formal methods in the creation of new explicit languages for problem solving in architecture and urbanism Formal methods bring advantages to human actions and

involve the use of theoretically driven techniques expressed in languages stemmed from mathematics Formalization seeks to guarantee that solutions for daily problems are produced in a manner that ensures their greatest possible adequacy and the least test time in direct confrontation with reality This book contributes to the progress of formalization in architectural methodologies by finding points of convergence between state of the art research on ontologies in architecture BIM VDC CAD CAM cellular automata GIS parametric processes processing and space syntax presented within the 3rd Symposium of Formal Methods in Architecture The contents reach from millennial geometry to current shape grammars engaging several formal approaches to architecture and urbanism with different points of view fields of application grades of abstraction and formalization **Proceedings of the Fifth International Conference on Mathematics and Computing** Debasis

Giri,Anthony T. S. Ho,S. Ponnusamy,Nai-Wei Lo,2020-11-25 This book features selected papers from the 5th International Conference on Mathematics and Computing ICMC 2019 organized by the School of Computer Engineering Kalinga Institute of Industrial Technology Bhubaneswar India on February 6 9 2019 Covering recent advances in the field of mathematics statistics and scientific computing the book presents innovative work by leading academics researchers and experts from industry **Intelligent Network Management and Control** Badr Benmammar,2021-05-11 The management and control of networks can no longer be envisaged without the introduction of artificial intelligence at all stages Intelligent Network Management and Control deals with topical issues related mainly to intelligent security of computer networks deployment of security services in SDN software defined networking optimization of networks using artificial intelligence techniques and multi criteria optimization methods for selecting networks in a heterogeneous environment This book also focuses on selecting cloud computing services intelligent unloading of calculations in the context of mobile cloud computing intelligent resource management in a smart grid cloud system for better energy efficiency new architectures for the Internet of Vehicles IoV the application of artificial intelligence in cognitive radio networks and intelligent radio input to meet the on road communication needs of autonomous vehicles *Exploratory Programming for the Arts and Humanities, second edition* Nick

Montfort,2021-05-18 A new edition of a book for anyone who wants to learn programming to explore and create with exercises and projects to help readers learn by doing This book introduces programming to readers involved with the arts and humanities there are no prerequisites and no previous knowledge of programming is assumed Nick Montfort reveals programming to be not merely a technical exercise within given constraints but a tool for sketching brainstorming and inquiry He emphasizes programming s exploratory potential its facility to create new kinds of artworks and to probe data for new ideas The book is designed to be read alongside the computer allowing readers to program while making their way through the chapters It offers practical exercises in writing and modifying code and outlines free projects that allow learners to pursue their own interests **Conserving and Managing Historical Urban Landscape** Xiaoxi Li,Ye Zhang,2023-01-01 This book focuses on urban morphology and its application to urban conservation and management The rapid disappearance

of historical urban landscapes especially in developing countries is largely attributed to the lack of historic awareness and broad brush demolition and redevelopment in urban development The book provides a new integrated morphological approach that enables fine grained and cross scale examination of urban form based on both its historicity and socio economic potential with the aims of informing more responsive and context specific conservation and management of historical urban landscapes The robustness of this new approach and the feasibility of its application to urban conservation practice are tested and demonstrated by three case studies in drastically different cultural contexts namely Ludlow a medieval town in the UK Chinatown in Singapore and a historic quarter in Nanjing China Combining historico geographical and configurational approaches the book also makes a significant breakthrough in terms of coordinating and synthesizing different traditions of urban morphology which has been a key challenge to this field over the past decades In addition by using multi source data ranging from conventional cartographic maps to computer generated and open online data the integrated approach innovatively relates qualitative and quantitative aspects of urban form and links the qualitative and quantitative analyses of formal structure As an interdisciplinary study merging geography urban history urban planning and design this book is to be primarily used as a reference book for graduate students and scholars in various fields who are interested in urban form and urban conservation and management In addition it offers practitioners in urban planning and design a useful tool for managing changes in historical urban landscapes Lastly it contributes to developing a common platform to facilitate dialogues among various stakeholders and participants in urban conservation practice

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