

Architectural Principles, Tools, and Processes

James Stevens and Ralph Nelson



<u>Digital Vernacular Architectural Principles Tools And Processes</u>

Brendan Harmon

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Digital Vernacular James Stevens, Ralph Nelson, 2015-06-26 Digital Vernacular addresses the why and how of digital fabrication in hundreds of step by step color images illuminating a set of working principles and techniques that join theory with practice Authors James Stevens and Ralph Nelson reconcile local traditions and innovations with globally accessible methods and digital toolsets By combining ethics with hardware the book will root you in the origins of making ensuring a lasting and relevant reference for your studio practice The book opens with the origins and principles of the digital vernacular then outlines digital vernacular tools including computer numerically controlled CNC mills laser cutters and 3D printers You ll even learn to create your own digital fabrication tools out of inexpensive materials The book concludes with the processes of the digital vernacular including techniques for removing joining forming and adding A companion website at make Lab org hosts additional step by step processes and project outcomes *Digital Vernacular* James C. Stevens, Ralph Nelson, 2015 Digital Vernacular addresses the why and how of digital fabrication in hundreds of step by step color images illuminating a set of working principles and techniques that join theory with practice Authors James Stevens and Ralph Nelson reconcile local traditions and innovations with globally accessible methods and digital toolsets By combining ethics with hardware the book will root you in the origins of making ensuring a lasting and relevant reference for your studio practice The book opens with the origins and principles of the digital vernacular then outlines digital vernacular tools

<u>Digital Vernacular</u> James Stevens, Ralph Nelson, 2015-06-26 Digital Vernacular addresses the why and how of digital fabrication in hundreds of step by step color images illuminating a set of working principles and techniques that join theory with practice Authors James Stevens and Ralph Nelson reconcile local traditions and innovations with globally accessible methods and digital toolsets By combining ethics with hardware the book will root you in the origins of making ensuring a lasting and relevant reference for your studio practice. The book opens with the origins and principles of the digital vernacular then outlines digital vernacular tools including computer numerically controlled CNC mills laser cutters and 3D printers You ll even learn to create your own digital fabrication tools out of inexpensive materials The book concludes with the processes of the digital vernacular including techniques for removing joining forming and adding A companion website at make Lab org hosts additional step by step processes and project outcomes **Designbuild Education** Chad Kraus, 2017-03-03 Designbuild Education adopts the intellectual framework of American Pragmatism which is a theory of action to investigate architects compelling urge to build and how that manifests in collegiate designbuild programs Organized into four themes people poetics process and practice the book brings together new essays by some of today s most well known designbuild educators including Andrew Freear from Rural Studio and Dan Rockhill from Studio 804 to shed light on the theoretical dimensions of their practice and work Illustrated with over 100 black and white images Computational Design for Landscape Architects Brendan Harmon, 2024-05-31 This book is a guide to computational design for landscape

architects replete with extensive tutorials It introduces algorithmic approaches for modeling and designing landscapes The aim of this book is to use algorithms to understand and design landscape as a generative system i e to harness the processes that shape landscape to generate new forms An algorithmic approach to design is gently introduced through visual programming with Grasshopper before more advanced methods are taught in Python a high level programming language Topics covered include parametric design randomness and noise waves and attractors lidar drone photogrammetry point cloud modeling terrain modeling earthworks digital fabrication and more The chapters include sections on theory methods and either visual programming or scripting Online resources for the book include code and datasets so that readers can easily follow along and try out the methods presented This book is a much needed guide both theoretical and practical on computational design for students educators and practitioners of landscape architecture **Digital Cultural Heritage** Marinos Ioannides, 2018-05-22 This book constitutes the refereed post conference proceedings of the Final Conference of the Marie Sk odowska Curie Initial Training Network for Digital Cultural Heritage held in Olimje Slovenia in May 2017 The 29 revised full papers included in this volume were carefully reviewed and selected from 198 submissions They focus on interdisciplinary and multi disciplinary research concerning cutting edge cultural heritage informatics physics chemistry and engineering and the use of technology for the representation documentation archiving protection preservation and Strategies for Landscape Representation Paul Cureton, 2016-12-08 communication of cultural heritage knowledge Strategies for Landscape Representation discusses a variety of digital and analogue production techniques for the representation of landscape at multiple scales Careful consideration is required to represent time and to ensure accuracy of representation and evaluation in the landscape Written as a guide for making appropriate selection of a wide variety of visualisation tools for students and built environment professionals with an interest in landscape the book charts emerging technologies and historical contexts whilst also being relevant to landscape legislation such as Building Information Modelling BIM and Landscape Assessment This book is an innovation driven text that encourages readers to make connections between software technology and analogue modes The management choice and combination of such modes can arguably narrow the unknown of landscape character address the issues of representing time and change in landscape and engage and represent communities perceptions and experience of landscape Showcasing international examples from landscape architecture planning urban design and architecture artists visualisers geographers scientists and model makers the vitality of making and intrinsic value of representational work in these processes and sites is evidenced An accompanying companion website provides access to original source files and tutorials totalling over a hundred hours in mapping and GIS diagrams and notation photomontage 3D modelling and 3D printing Teaching Electronic Music Blake Stevens, 2021-08-16 Teaching Electronic Music Cultural Creative and Analytical Perspectives offers innovative and practical techniques for teaching electronic music in a wide range of classroom settings Across a dozen essays an array of contributors including

practitioners in musicology art history ethnomusicology music theory performance and composition reflect on the challenges of teaching electronic music highlighting pedagogical strategies while addressing questions such as What can instructors do to expand and diversify musical knowledge Can the study of electronic music foster critical reflection on technology What are the implications of a digital culture that allows so many to be producers of music How can instructors engage students in creative experimentation with sound Electronic music presents unique possibilities and challenges to instructors of music history courses calling for careful attention to creative curricula historiographies repertoires and practices Teaching Electronic Music features practical models of instruction as well as paths for further inquiry identifying untapped methodological directions with broad interest and wide applicability Architecture for Housing Diordie Stojanović, 2024-06-04 New fundamentals for designing future oriented housing This book shows how architectural design can improve housing It looks at 14 innovative multiunit dwelling projects through the lenses of current research on urban housing systems driven by questions on social environmental and economic sustainability Residential buildings designed for diverse cultural contexts are brought together and examined according to spatial antonyms the individual and communal the interior and exterior and the determined and undetermined to create a resource for future architectural practice. The book concentrates on design decisions and incorporates rich illustrations and conversations with architects and residents It follows a series of talks curated by the Melbourne School of Design to extend the debate on the missing links between architectural practice and housing research New fundamentals for designing future oriented housing In detail portraits of 14 impactful multi unit dwelling projects by international architecture offices A rich set of illustrations created exclusively for this book **Interdisciplinary Design** Hanif Kara, 2022-03-07 Architects and engineers both claim to be designers though how they define design and the approaches they use to realize it vary widely However their interaction has also created some of the world's most memorable enduring and impressive buildings. The unprecedented impact of digital technologies illuminates the complexity and non linearity of the process that these designers go through while massively expanding both the ability to visualize and represent forms and to analyze their structural behavior It has obviously changed both architecture and engineering and so also the potential for interaction between them Interdisciplinary Design began as a course at Harvard GSD attended by graduate students in architecture and also by MIT graduate students in structural engineering and computation In this course students and instructors examined a series of built projects in order to develop new viewpoints and communication across disciplinary boundaries in teaching practice and construction

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