

Boundless Desktop Gis Software For Mapping Solutions

This book presents new optimization approaches and methods and their application in real-world and industrial problems. Numerous processes and problems in real life and industry can be represented as optimization problems, including modeling physical processes, wildfire, natural hazards and metal nanostructures, workforce planning, wireless network topology, parameter settings for controlling different processes, extracting elements from video clips, and management of cloud computing environments. This book shows how to develop algorithms for these problems, based on new intelligent methods like evolutionary computations, ant colony optimization and constraint programming, and demonstrates how real-world problems arising in engineering, economics and other domains can be formulated as optimization problems. The book is useful for researchers and practitioners alike.

Managing information within the enterprise has always been a vital and important task to support the day-to-day business operations and to enable analysis of that data for decision making to better manage and grow the business for improved profitability. To do all that, clearly the data must be accurate and organized so it is accessible and understandable to all who need it. That task has grown in importance as the volume of enterprise data has been growing significantly (analyst estimates of 40 - 50% growth per year are not uncommon) over the years. However, most of that data has been what

we call "structured" data, which is the type that can fit neatly into rows and columns and be more easily analyzed. Now we are in the era of "big data." This significantly increases the volume of data available, but it is in a form called "unstructured" data. That is, data from sources that are not as easily organized, such as data from emails, spreadsheets, sensors, video, audio, and social media sites. There is valuable information in all that data but it calls for new processes to enable it to be analyzed. All this has brought with it a renewed and critical need to manage and organize that data with clarity of meaning, understandability, and interoperability. That is, you must be able to integrate this data when it is from within an enterprise but also importantly when it is from many different external sources. What is described here has been and is being done to varying extents. It is called "information governance." Governing this information however has proven to be challenging. But without governance, much of the data can be less useful and perhaps even used incorrectly, significantly impacting enterprise decision making. So we must also respect the needs for information security, consistency, and validity or else suffer the potential economic and legal consequences. Implementing sound governance practices needs to be an integral part of the information control in our organizations. This IBM® Redbooks® publication focuses on the building blocks of a solid governance program. It examines some familiar governance initiative scenarios, identifying how they underpin key governance initiatives, such as Master Data Management, Quality Management, Security and

Privacy, and Information Lifecycle Management. IBM Information Management and Governance solutions provide a comprehensive suite to help organizations better understand and build their governance solutions. The book also identifies new and innovative approaches that are developed by IBM practice leaders that can help as you implement the foundation capabilities in your organizations.

This book constitutes revised papers from the 12th International Conference on Large-Scale Scientific Computing, LSSC 2019, held in Sozopol, Bulgaria, in June 2019. The 70 papers presented in this volume were carefully reviewed and selected from 81 submissions. The book also contains two invited talks. The papers were organized in topical sections named as follows: control and optimization of dynamical systems; meshfree and particle methods; fractional diffusion problems: numerical methods, algorithms and applications; pore scale flow and transport simulation; tensors based algorithms and structures in optimization and applications; HPC and big data: algorithms and applications; large-scale models: numerical methods, parallel computations and applications; monte carlo algorithms: innovative applications in conjunctions with other methods; application of metaheuristics to large-scale problems; large scale machine learning: multiscale algorithms and performance guarantees; and contributed papers.

This extraordinary book explains the engine that has catapulted the Internet from backwater to ubiquity—and reveals that it is sputtering precisely because of its runaway

success. With the unwitting help of its users, the generative Internet is on a path to a lockdown, ending its cycle of innovation—and facilitating unsettling new kinds of control. iPods, iPhones, Xboxes, and TiVos represent the first wave of Internet-centered products that can't be easily modified by anyone except their vendors or selected partners. These “tethered appliances” have already been used in remarkable but little-known ways: car GPS systems have been reconfigured at the demand of law enforcement to eavesdrop on the occupants at all times, and digital video recorders have been ordered to self-destruct thanks to a lawsuit against the manufacturer thousands of miles away. New Web 2.0 platforms like Google mash-ups and Facebook are rightly touted—but their applications can be similarly monitored and eliminated from a central source. As tethered appliances and applications eclipse the PC, the very nature of the Internet—its “generativity,” or innovative character—is at risk. The Internet's current trajectory is one of lost opportunity. Its salvation, Zittrain argues, lies in the hands of its millions of users. Drawing on generative technologies like Wikipedia that have so far survived their own successes, this book shows how to develop new technologies and social structures that allow users to work creatively and collaboratively, participate in solutions, and become true “netizens.”

Taking data from the real world, maps, reports, & other sources, Geographical Information Systems (GIS) synthesize, analyze, & model geographical decision media, providing tools that are revolutionizing urban & regional planning. This valuable

introduction to GIS & remote sensing (RS) clearly explains how to take full advantage of this new technology. Thorough enough to offer valuable counsel to those already working with GIS & RS, yet presupposing no knowledge of computing, the book takes readers step by step from the simplest hows & whys all the way to the architecture, implementation, & application of a complete system.

The latest guide to using QGIS 2.14 to create great maps and perform geoprocessing tasks with ease About This Book Learn how to work with various data and create beautiful maps using this easy-to-follow guide. Give a touch of professionalism to your maps both for functionality and look and feel with the help of this practical guide. A progressive hands-on guide that builds on a geo-spatial data and adds more reactive maps by using geometry tools. Who This Book Is For This book is great for users, developers, and consultants who know the basic functions and processes of GIS and want to learn to use QGIS to analyze geospatial data and create rich mapping applications. If you want to take advantage of the wide range of functionalities that QGIS offers, then this is the book for you. What You Will Learn Install QGIS and get familiar with the user interface Load vector and raster data from files, databases, and web services Create, visualize, and edit spatial data Perform geoprocessing tasks and automate them Create advanced cartographic outputs Design great print maps Expand QGIS using Python In Detail QGIS is a user-friendly open source geographic information system (GIS) that runs on Linux, Unix, Mac OS X, and Windows. The

popularity of open source geographic information systems and QGIS in particular has been growing rapidly over the last few years. Learning QGIS Third Edition is a practical, hands-on guide updated for QGIS 2.14 that provides you with clear, step-by-step exercises to help you apply your GIS knowledge to QGIS. Through clear, practical exercises, this book will introduce you to working with QGIS quickly and painlessly. This book takes you from installing and configuring QGIS to handling spatial data to creating great maps. You will learn how to load and visualize existing spatial data and create data from scratch. You will get to know important plugins, perform common geoprocessing and spatial analysis tasks and automate them with Processing. We will cover how to achieve great cartographic output and print maps. Finally, you will learn how to extend QGIS using Python and even create your own plugin. Style and approach A step by step approach to explain concepts of Geospatial map with the help of real life examples

This book offers a balance of principles, concepts, and techniques to guide readers toward an understanding of how the World Wide Web can expand and modernize the way you use GIS technology.--[book cover]

The role open-source geospatial software plays in data handling within the spatial information technology industry is the overarching theme of the book. It also examines new tools and applications for those already using OS approaches to software development.

This book provides an easy-to-follow roadmap for successfully implementing the Balanced

Scorecard methodology in small- and medium-sized companies. Building on the success of the first edition, the Second Edition includes new cases based on the author's experience implementing the balanced scorecard at government and nonprofit agencies. It is a must-read for any organization interested in achieving breakthrough results.

Raising to the challenge of how to grasp such forms of inequalities that are mediated affectively, *Affective Inequalities in Intimate Relationships* focuses on subtle inequalities that are shaped in everyday affective encounters. It also seeks to bridge a gap between affect theory and empirical social research by providing ideas and inspiration of how to work with affect in research practice. Presenting cutting-edge empirical studies on affect and intimate relationships, the collection - introduces alternative and novel ways of conceptualizing the workings of affect in intimate relationships - provides tools for tackling the subtle ways in which affectivity connects with power relations in intimate relations - develops innovative methodologies that provide better access to affect as an embodied experience A fascinating contribution to the interdisciplinary field of affect studies, *Affective Inequalities in Intimate Relationships* will appeal to advanced undergraduates and postgraduates interested in fields such as gender studies, queer studies and cultural studies.

From the bestselling author of the acclaimed *Chaos and Genius* comes a thoughtful and provocative exploration of the big ideas of the modern era: Information, communication, and information theory. Acclaimed science writer James Gleick presents an eye-opening vision of how our relationship to information has transformed the very nature of human consciousness. A fascinating intellectual journey through the history of communication and information, from the language of Africa's talking drums to the invention of written alphabets; from the electronic

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transmission of code to the origins of information theory, into the new information age and the current deluge of news, tweets, images, and blogs. Along the way, Gleick profiles key innovators, including Charles Babbage, Ada Lovelace, Samuel Morse, and Claude Shannon, and reveals how our understanding of information is transforming not only how we look at the world, but how we live. A New York Times Notable Book A Los Angeles Times and Cleveland Plain Dealer Best Book of the Year Winner of the PEN/E. O. Wilson Literary Science Writing Award

Maps and atlases are created as soon as information on our geography has been clarified. They are used to find directions or to get insight into spatial relations. They are produced and used both on paper as well as on-screen. The Web is the new medium for spreading and using maps. This book explains the benefits of this medium from the perspective of the user, and the map provider. Opportunities and pitfalls are illustrated by a set of case-studies. A website accompanies the book and provides a dynamic environment for demonstrating many of the principles set out in the text, including access to a basic course in Internet cartography as well as links to other interesting places on the Web. Professor Kraak looks at basic questions such as "I have this data what can I do with it?" and discusses the various functions of maps on the web. Web Cartography also looks at the particularities of multidimensional web maps and addresses topics such as map contents (colour, text and symbols), map physics (size and resolution), and the map environment (interface design/site contents).

The Encyclopedia of GIS provides a comprehensive and authoritative guide, contributed by experts and peer-reviewed for accuracy, and alphabetically arranged for convenient access. The entries explain key software and processes used by geographers and computational

scientists. Major overviews are provided for nearly 200 topics: Geoinformatics, Spatial Cognition, and Location-Based Services and more. Shorter entries define specific terms and concepts. The reference will be published as a print volume with abundant black and white art, and simultaneously as an XML online reference with hyperlinked citations, cross-references, four-color art, links to web-based maps, and other interactive features.

"Character" has become a front-and-center topic in contemporary discourse, but this term does not have a fixed meaning. Character may be simply defined by what someone does not do, but a more active and thorough definition is necessary, one that addresses certain vital questions. Is character a singular characteristic of an individual, or is it composed of different aspects? Does character--however we define it--exist in degrees, or is it simply something one happens to have? How can character be developed? Can it be learned? Relatedly, can it be taught, and who might be the most effective teacher? What roles are played by family, schools, the media, religion, and the larger culture? This groundbreaking handbook of character strengths and virtues is the first progress report from a prestigious group of researchers who have undertaken the systematic classification and measurement of widely valued positive traits. They approach good character in terms of separate strengths--authenticity, persistence, kindness, gratitude, hope, humor, and so on--each of which exists in degrees. Character Strengths and Virtues classifies twenty-four specific strengths under six broad virtues that consistently emerge across history and culture: wisdom, courage, humanity, justice, temperance, and transcendence. Each strength is thoroughly examined in its own chapter, with special attention to its meaning, explanation, measurement, causes, correlates, consequences, and development across the life span, as well as to strategies for its deliberate cultivation. This

book demands the attention of anyone interested in psychology and what it can teach about the good life.

The joint symposium of ICA commissions is always one of the most important event for cartographers. This joint seminar in Orleans was connected to 25th International Cartographic Conference, Paris. Works were presented by members of the commissions on: Cartography and Children, Cartographic Education and Training, Maps and the Internet, Planetary Cartography, Early Warning and Disaster Management.

Welcome to the world of PyQGIS, the blending of QGIS and Python to extend and enhance your open source GIS toolbox. With PyQGIS you can write scripts and plugins to implement new features and perform automated tasks. This book covers version 3.0 of the QGIS application programming interface (API), featuring Python 3.

Data is getting bigger and more complex by the day, and so are your choices in handling it. Explore some of the most cutting-edge databases available - from a traditional relational database to newer NoSQL approaches - and make informed decisions about challenging data storage problems. This is the only comprehensive guide to the world of NoSQL databases, with in-depth practical and conceptual introductions to seven different technologies: Redis, Neo4J,

CouchDB, MongoDB, HBase, Postgres, and DynamoDB. This second edition includes a new chapter on DynamoDB and updated content for each chapter. While relational databases such as MySQL remain as relevant as ever, the alternative, NoSQL paradigm has opened up new horizons in performance and scalability and changed the way we approach data-centric problems. This book presents the essential concepts behind each database alongside hands-on examples that make each technology come alive. With each database, tackle a real-world problem that highlights the concepts and features that make it shine. Along the way, explore five database models - relational, key/value, columnar, document, and graph - from the perspective of challenges faced by real applications. Learn how MongoDB and CouchDB are strikingly different, make your applications faster with Redis and more connected with Neo4J, build a cluster of HBase servers using cloud services such as Amazon's Elastic MapReduce, and more. This new edition brings a brand new chapter on DynamoDB, updated code samples and exercises, and a more up-to-date account of each database's feature set. Whether you're a programmer building the next big thing, a data scientist seeking solutions to thorny problems, or a technology enthusiast venturing into new territory, you will find something to inspire you in this book. What You Need: You'll need a *nix shell (Mac OS or

Linux preferred, Windows users will need Cygwin), Java 6 (or greater), and Ruby 1.8.7 (or greater). Each chapter will list the downloads required for that database. Address Errors before Users Find Them Using a mix-and-match approach, Software Test Attacks to Break Mobile and Embedded Devices presents an attack basis for testing mobile and embedded systems. Designed for testers working in the ever-expanding world of "smart" devices driven by software, the book focuses on attack-based testing that can be used by individuals and teams. The numerous test attacks show you when a software product does not work (i.e., has bugs) and provide you with information about the software product under test. The book guides you step by step starting with the basics. It explains patterns and techniques ranging from simple mind mapping to sophisticated test labs. For traditional testers moving into the mobile and embedded area, the book bridges the gap between IT and mobile/embedded system testing. It illustrates how to apply both traditional and new approaches. For those working with mobile/embedded systems without an extensive background in testing, the book brings together testing ideas, techniques, and solutions that are immediately applicable to testing smart and mobile devices.

Many important planning decisions in society and business depend on proper knowledge and a correct understanding of movement, be it in transportation,

logistics, biology, or the life sciences. Today the widespread use of mobile phones and technologies like GPS and RFID provides an immense amount of data on location and movement. What is needed are new methods of visualization and algorithmic data analysis that are tightly integrated and complement each other to allow end-users and analysts to extract useful knowledge from these extremely large data volumes. This is exactly the topic of this book. As the authors show, modern visual analytics techniques are ready to tackle the enormous challenges brought about by movement data, and the technology and software needed to exploit them are available today. The authors start by illustrating the different kinds of data available to describe movement, from individual trajectories of single objects to multiple trajectories of many objects, and then proceed to detail a conceptual framework, which provides the basis for a fundamental understanding of movement data. With this basis, they move on to more practical and technical aspects, focusing on how to transform movement data to make it more useful, and on the infrastructure necessary for performing visual analytics in practice. In so doing they demonstrate that visual analytics of movement data can yield exciting insights into the behavior of moving persons and objects, but can also lead to an understanding of the events that transpire when things move. Throughout the book, they use sample applications

from various domains and illustrate the examples with graphical depictions of both the interactive displays and the analysis results. In summary, readers will benefit from this detailed description of the state of the art in visual analytics in various ways. Researchers will appreciate the scientific precision involved, software technologists will find essential information on algorithms and systems, and practitioners will profit from readily accessible examples with detailed illustrations for practical purposes.

The classic book on business strategy in the new networked economy— from the author of the New York Times bestseller *The Inevitable* Forget supply and demand. Forget computers. The old rules are broken. Today, communication, not computation, drives change. We are rushing into a world where connectivity is everything, and where old business know-how means nothing. In this new economic order, success flows primarily from understanding networks, and networks have their own rules. In *New Rules for the New Economy*, Kelly presents ten fundamental principles of the connected economy that invert the traditional wisdom of the industrial world. Succinct and memorable, *New Rules* explains why these powerful laws are already hardwired into the new economy, and how they play out in all kinds of business—both low and high tech— all over the world. More than an overview of new economic principles, it prescribes clear

and specific strategies for success in the network economy. For any worker, CEO, or middle manager, New Rules is the survival kit for the new economy. Practical SQL is an approachable and fast-paced guide to SQL (Structured Query Language), the standard programming language for defining, organizing, and exploring data in relational databases. The book focuses on using SQL to find the story your data tells, with the popular open-source database PostgreSQL and the pgAdmin interface as its primary tools. You'll first cover the fundamentals of databases and the SQL language, then build skills by analyzing data from the U.S. Census and other federal and state government agencies. With exercises and real-world examples in each chapter, this book will teach even those who have never programmed before all the tools necessary to build powerful databases and access information quickly and efficiently. You'll learn how to:

- Create databases and related tables using your own data
- Define the right data types for your information
- Aggregate, sort, and filter data to find patterns
- Use basic math and advanced statistical functions
- Identify errors in data and clean them up
- Import and export data using delimited text files
- Write queries for geographic information systems (GIS)
- Create advanced queries and automate tasks

Learning SQL doesn't have to be dry and complicated. Practical SQL delivers clear examples with an easy-to-follow approach to teach you the

tools you need to build and manage your own databases. This book uses PostgreSQL, but the SQL syntax is applicable to many database applications, including Microsoft SQL Server and MySQL.

This book is the second in a series that examines how geographic information technologies (GIT) are being implemented to improve our understanding of a variety of hazard and disaster situations. The main types of technologies covered under the umbrella of GIT, as used in this volume, are geographic information systems, remote sensing (not including ground-penetrating or underwater systems), and global positioning systems. Our focus is on urban areas, broadly defined in order to encompass rapidly growing and densely populated areas that may not be considered “urban” in the conventional sense. The material presented here is also unabashedly applied – our goal is to provide GIT tools to those seeking more efficient ways to respond to, recover from, mitigate, prevent, and/or model hazard and disaster events in urban settings. Therefore, this book was created not only with our colleagues in the academic world in mind, but also for hazards professionals and practitioners. We also believe graduate students will find the material presented here of interest, as may upper division undergraduate students.

PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology.

Get started with QGIS with this introduction covering everything needed to get you going. This tutorial, based on the 3.16 LTR version, introduces you to major concepts and techniques to

get you started with viewing data, analysis, and creating maps and reports. With this book you'll learn about: The QGIS interface Creating, editing, and analyzing vector data Working with raster (image) data Using plugins The QGIS Processing Toolbox Georeferencing Creating map and reports Resources for further help and study The book includes a link to all the data you'll need to follow along with each chapter.

'The book is a unique and excellent introduction to postmodern narrative analyses' - Organization Studies '[This book] should succeed in putting the metaphorical cat amongst just about every metaphorical pigeon that might imaginably take flight within the organization and communication research arenas. Story time will never be the same again, nor will interpretative research' - Stewart Clegg, University of Technology, Sydney 'Timely and first rate. It nicely stretches a reader's thinking about the topic' - Thomas Lee, University of Washington, School of Business 'David Boje is a pioneering theorist in organization studies and management... [His book] is yet another example of Boje's pioneering spirit and concern for exactitude. [His] scholarly account of narrative and antenarrative methods is both corrective and exploratory of how stories must be understood in terms of their own internal dynamics, and not viewed as static entities. Boje's book is a magnificent start... A book that breaks new ground in organizational analysis, this is a must-read for researchers and practitioners in the fields of organization and management studies' - Adrian Carr, University of Western Sydney 'Boje masterfully shows how to analyze texts and ideas before they are reduced and fitted into the dominant ideological frameworks of the day. [He] provides a powerful tool for achieving greater democracy in how we approach doing social science... [and] liberates our capacity to make meanings for ourselves' - Paul Hirsch, Northwestern University, Kellogg Graduate School of

Management `This is an important book. It is a major methodological contribution to critical, postmodern studies of organizations and management. It is essential reading for critical management scholars' - Robert P. Gephart, Jr., University of Alberta School of Business

`David Boje has emerged as the leading postmodern thinker in management theory and organization science. His prolific output lights the path for others to follow in a field awakening to the challenge of postmodern critical theory. Updating and revising narrative theory for the prevailing "postmodern condition," Boje masterfully reconstructs the concepts and methods of storytelling, as he subverts the dominant principles of modernist organization theory. He offers a subtle and complex notion of narrative... This impressive book should leave an indelible mark on management and organization studies' - Steven Best, University of Texas, El Paso

An essential guide for academics and researchers needing to look at alternative discourse analysis strategies. As a research tool, narrative methods have become increasingly useful in organization studies, where much research involves the interpretation of 'stories' in some form. This methodology can be applied where qualitative story analyses can help to assess interview, newspaper or web document stories for research projects. In this book, Boje sets out eight analysis options that can deal with storytelling, recognizing that stories in organizations can be self-destructing, flowing, networking and not at all static. In so doing, he shows ways in which narrative methods can be supplemented by 'antenarrative' methods, where fragmented and collective storytelling can be interpreted. A valuable resource that will be widely used in organizational or communications research, for graduate level qualitative methods seminars and by researchers wanting to do story analysis. David Boje is Professor at the New Mexico State University. He is also on the editorial board of the journal Organization.

`A great basic book, which can be used by the novice qualitative researcher. The advice is friendly, almost folksy with clear conceptual explanation of how the program works. A very welcome contribution to this field' - Martha Ann Carey, Albert Einstein College of Medicine, New York`
`Qualitative researchers continue to be criticized because they rely too much on their own interpretations and avoid analytical and theoretical issues. This book provides ways to integrate the thinking about a project and the data you have with practical ways that the software can facilitate the process. I recommend it for both the new user as well as the experienced one' - Marilyn Lichtman, Forum for Qualitative Social Research - follow the link below to read the complete review
This book invites readers to learn how to use qualitative data analysis software in the context of doing their research project. The reader follows basic steps for creating and conducting a real project with real data, using the new-generation software package, QSR NVivo. The software tools are introduced only as needed and explained in the framework of what is being asked. The reader is the craftsman, trialling those tools in the processes of getting started, tentative interpretation, drawing links, shaping data, and seeking and establishing explanations and theories. The NVivo Qualitative Project Book allows the researcher to work through their own project, or work with data provided from a real project. The authors draw on decades of experience of research and training researchers around the world, and take the reader through each step in a style combining informality and authority, with frequent tips and reflections on what is being done. Demonstration software is provided on the enclosed CD-ROM, with data to help create (a researcher's project) a project about researchers and researching, and with multiple stages arranged sequentially in the development of a real project. As a practical tool to help

researchers understand qualitative data analysis software using NVivo, and a guide through the sometimes complex processes of doing a research project, this book will be invaluable reading for researchers and students undertaking qualitative research. Pat Bazeley provides training and consulting services in research design and data analysis through her company, Research Support. Lyn Richards is Director of Research Services at Qualitative Solutions and Research, the developers of NUD-IST and NVivo software. NVivo is distributed by Scolari, SAGE Publications Software.

An easy-to-use guide, full of hands-on recipes for manipulating spatial data in a PostGIS database. Each topic is explained and placed in context, and for the more inquisitive, there are more details of the concepts used. If you are a web developer or a software architect, especially in location-based companies, and want to expand the range of techniques you are using with PostGIS, then this book is for you. You should have some prior experience with PostgreSQL database and spatial concepts.

An overview of the programming language's fundamentals covers syntax, initialization, implementation, classes, error handling, objects, applets, multiple threads, projects, and network programming.

QGIS is a leading user-friendly, cross-platform, open source, desktop geographic information system (GIS). It provides many useful capabilities and features and their number is continuously growing. More and more private users and companies choose QGIS as their primary GIS software because it is very easy to use, feature-rich, extensible, and has a big and constantly growing community. This book guides you from QGIS installation through data loading, and preparation to performing most common GIS analyses. You will perform different

types of GIS analyses including density, visibility, and suitability analysis on practical, real-world data. Finally, you will learn how to become more productive and automate your everyday work with the help of the QGIS Processing framework and by developing your own Python plugins. By the end of this book, you will have all the necessary knowledge about handling and analyzing spatial data.

If you are a GIS professional who intends to explore advanced techniques and get more out of GeoServer deployment rather than simply delivering good looking maps, then this book is for you.

Recent Advances in Computational Optimization Results of the Workshop on “Computational Optimization” and “Numerical Search and Optimization” 2018 Springer

If you are a Splunk user and want to enter the wonderful world of Splunk application development, then this book is for you. Some experience with Splunk, writing searches, and designing basic dashboards is expected.

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

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