Datafaction Tutorial Sample

Presents the core mathematics, statistics, and programming skills needed for modern climate science courses, with online teaching materials.

Rhetorical Grammar encourages writers to recognize and use the structural and stylistic choices available to them and to understand the rhetorical effects those choices can have on their readers. Rhetorical Grammar is a writer's grammar - a text that presents grammar as a rhetorical tool, avoiding the do's and don'ts so long associated with the study of grammar. It reveals to student writers the system of grammar that they know subconsciously and encourages them to use that knowledge to understand their choices as writers and the effects of those choices on their readers. Besides providing key strategies for revision, Rhetorical Grammar presents systematic discussions of reader expectation, sentence rhythm and cohesion, subordination and coordination, punctuation, modifiers, diction, and other principles. Studying grammar from this rhetorical point of view defines the study of language as an intellectual exercise designed to open up students' minds to the versatility, beauty, and possibilities of language.

Flexible, easy to use, just enough detail?and now the number-one best seller. With just enough detail ? and color-coded links that send students to more detail if they need it ? this is the rhetoric that tells students what they need to know and resists the temptation

to tell them everything there is to know. Designed for easy reference ? with menus, directories, and a combined glossary/index. The Third Edition has new chapters on academic writing, choosing genres, writing online, and choosing media, as well as new attention to multimodal writing. The Norton Field Guide to Writing is available with a handbook, an anthology, or both ? and all versions are now available as low-cost ebooks.

Celebrate the 25th Anniversary of Goosebumps with five of the all-time bestselling books including Monster Blood, Why I'm Afraid of Bees, A Night in Terror Tower, The Beast From the East, and Legend of the Lost Legend. Each with their original cover in an exclusive retro collector's tin!

Museums throughout the world face the challenge of finding nontoxic methods to control insect pests. This book focuses on practical rather than theoretical issues in the use of oxygen-free environments, presenting a detailed, hands-on guide to the use of oxygen-free environments in the eradication of museum insect pests.

High-throughput measurements of gene expression and genetic marker data facilitate systems biologic and systems genetic data analysis strategies. Gene co-expression networks have been used to study a variety of biological systems, bridging the gap from individual genes to biologically or clinically important emergent phenotypes.

Michael Santos helps audiences understand how to overcome the struggle of a lengthy prison term. Readers get to experience the mindset of a 23-year-old young man that

goes into prison at the start of America's War on Drugs. They see how decisions that Santos made at different stages in the journey opened opportunities for a life of growth, fulfillment, and meaning.Santos tells the story in three sections: Veni, Vidi, Vici.In the first section of the book, we see the challenges of the arrest, the reflections while in jail, the criminal trial, and the imposition of a 45-year prison term.In the second section of the book, we learn how Santos opened opportunities to grow. By writing letters to universities, he found his way into a college program. After earning an undergraduate degree, he pursued a master's degree. After earning a master's degree, he began work toward a doctorate degree. When authorities blocked his pathway to complete his formal education, Santos shifted his energy to publishing and creating business opportunities from inside of prison boundaries.In the final section, we learn how Santos relied upon critical-thinking skills to position himself for a successful journey inside. He nurtured a relationship with Carole and married her inside of a prison visiting room. Then, he began building businesses that would allow him to return to society strong, with his dignity intact.Through Earning Freedom! readers learn how to overcome struggles and challenges. At any time, we can recalibrate, we can begin working toward a better life. Santos served 9,135 days in prison, and another 365 days in a halfway house before concluding 26 years as a federal prisoner. Through his various websites, he continues to document how the decisions he made in prison put him on a pathway to succeed upon release.

"Hilarious…This book charmed my socks off." —Patricia O'Conner, New York Times Book Review Mary Norris has spent more than three decades working in The New Yorker's renowned copy department, helping to maintain its celebrated high standards. In Between You & Me, she brings her vast experience with grammar and usage, her good cheer and irreverence, and her finely sharpened pencils to help the rest of us in a boisterous language book as full of life as it is of practical advice. Named a Best Book of the Year by NPR, Amazon, Wall Street Journal, Publishers Weekly, Kirkus, and Library Journal.

Express your colorful side! The patterns in Geometric Knit Blankets are inspired by quilts, tiles, and other color block designs. Every blanket is a stunning feast for the eyes, and all are for the intermediate knitter or confident beginner. Knit them as shown or choose colors you love best or that work with your decor. The construction of each blanket is fully and beautifully illustrated, and the techniques used to make each item are clearly listed so you know what is involved. Many blankets offer two methods of construction, so you can choose to knit with techniques you favor. The blankets feature an abundance of different geometric shapes: squares, rectangles, triangles, diamonds, hexagons, circles. The individual blocks for a given blanket can also be rearranged to make additional designs. These blankets are so much fun you will want to make them all!

'If you're thinking about trying mindfulness, this is the perfect introduction....I'm grateful to Andy for helping me on this journey.' BILL GATES 'It's kind of genius' EMMA WATSON Feeling stressed about Christmas/Brexit/everthing? Try this... Demystifying meditation for the modern world: an accessible and practical route to improved health, happiness and well being, in as little as 10 minutes. Andy Puddicombe, founder of the celebrated Headspace, is on a mission:

to get people to take 10 minutes out of their day to sit in the now. Here he shares his simple to learn, but highly effective techniques of meditation. * Rest an anxious, busy mind * Find greater ease when faced with difficult emotions, thoughts, circumstances * Improve focus and concentration * Sleep better * Achieve new levels of calm and fulfilment. The benefits of mindfulness and meditation are well documented and here Andy brings this ancient practice into the modern world, tailor made for the most time starved among us. First published as Get Some Headspace, this reissue shows you how just 10 minutes of mediation per day can bring about life changing results.

For the millions of Americans who want spirituality without religion, Sam Harris's latest New York Times bestseller is a guide to meditation as a rational practice informed by neuroscience and psychology. From Sam Harris, neuroscientist and author of numerous New York Times bestselling books, Waking Up is for the twenty percent of Americans who follow no religion but who suspect that important truths can be found in the experiences of such figures as Jesus, the Buddha, Lao Tzu, Rumi, and the other saints and sages of history. Throughout this book, Harris argues that there is more to understanding reality than science and secular culture generally allow, and that how we pay attention to the present moment largely determines the quality of our lives. Waking Up is part memoir and part exploration of the scientific underpinnings of spirituality. No other book marries contemplative wisdom and modern science in this way, and no author other than Sam Harris—a scientist, philosopher, and famous skeptic—could write it.

From gear to editing, composition, lighting, settings, techniques and more, real estate photographer Nathan Cool provides a comprehensive guide for shooting high-quality interior

real estate photography from start to finish. Learn how to not just take, but also "make" great real estate interior photos with an efficient workflow and cost-effective tools to speed up your shooting and editing processes. With over 70 color images showing real-world examples, screen shots and diagrams, you'll learn the principles that Nathan Cool and many other professional real estate photographers apply to their work. Far from being a dry academic tome, this book shows practical techniques that prove profitable for a real estate photography business. See how you can stand out from today's crowd of camera clickers and show clients you charge like a pro because you shoot like one.

To support the broadening spectrum of project delivery approaches, PMI is offering A Guide to the Project Management Body of Knowledge (PMBOK® Guide) – Sixth Edition as a bundle with its latest, the Agile Practice Guide. The PMBOK® Guide – Sixth Edition now contains detailed information about agile; while the Agile Practice Guide, created in partnership with Agile Alliance®, serves as a bridge to connect waterfall and agile. Together they are a powerful tool for project managers. The PMBOK® Guide – Sixth Edition – PMI's flagship publication has been updated to reflect the latest good practices in project management. New to the Sixth Edition, each knowledge area will contain a section entitled Approaches for Agile, Iterative and Adaptive Environments, describing how these practices integrate in project settings. It will also contain more emphasis on strategic and business knowledge—including discussion of project management business documents—and information on the PMI Talent Triangle™ and the essential skills for success in today's market. Agile Practice Guide has been developed as a resource to understand, evaluate, and use agile and hybrid agile approaches. This practice guide provides guidance on when, where, and how to apply agile approaches and provides

practical tools for practitioners and organizations wanting to increase agility. This practice guide is aligned with other PMI standards, including A Guide to the Project Management Body of Knowledge (PMBOK® Guide) – Sixth Edition, and was developed as the result of collaboration between the Project Management Institute and the Agile Alliance. Writing an amazing college admission essay is easier than you think! So you're a high school senior given the task of writing a 650-word personal statement for your college application. Do you tell the story of your life, or a story from your life? Do you choose a single moment? If so, which one? The options seem endless. Lucky for you, they're not. College counselor Ethan Sawyer (aka The College Essay Guy) will show you that there are only four (really, four!) types of college admission essays. And all you have to do to figure out which type is best for you is answer two simple questions: 1. Have you experienced significant challenges in your life? 2. Do you know what you want to be or do in the future? With these questions providing the building blocks for your essay, Sawyer guides you through the rest of the process, from choosing a structure to revising your essay, and answers the big questions that have probably been keeping you up at night: How do I brag in a way that doesn't sound like bragging? and How do I make my essay, like, deep? Packed with tips, tricks, exercises, and sample essays from real students who got into their dream schools, College Essay Essentials is the only college essay guide to make this complicated process logical, simple, and (dare we say it?) a little bit fun.

Provides information on manuscript preparation, punctuation, spelling, quotations, captions, tables, abbreviations, references, bibliographies, notes, and

indexes, with sections on journals and electronic media.

Learn the basics of cartoon animation from acclaimed cartoon animator Preston Blair! Join acclaimed cartoon animator Preston Blair as he explains and demonstrates the magic of cartoon animation. Learn to develop a cartoon character's shape, personality, features, and mannerisms; how to create movements, such as walking, running, skipping, and sneaking; and tips on using lines of action and creating realistic motion. From cartooning basics to more advanced animation techniques, Animation 1 is a welcome introduction for artists ready to bring their drawings to life. Designed for beginners, the How to Draw & Paint series offers an easy-to-follow guide that introduces artists to basic tools and materials and includes simple step-by-step lessons for a variety of projects suitable for the aspiring artist. Animation 1 allows artists to widen the scope of their abilities, demonstrating how to animate a character, from character development to movement and dialogue.

"For several thousand years, all dyes were of animal, vegetable, or mineral origin, and many ancient civilizations possessed excellent dye technologies. The first synthetic dye was produced in 1856, and the use of traditional dyes declined rapidly thereafter. By 1915 few non-synthetics were used by industry or craftspeople. The craft revivals of the 1920s explored traditional methods of

natural dyeing to some extent, particularly with wool, although the great eighteenth- and nineteenth-century dye manuals, which recorded the older processes, remained largely forgotten. In The Art and Craft of Natural Dyeing, J.N. Liles consolidates the lore of the older dyers with his own first-hand experience to produce both a history of natural dyes and a practical manual for using pre-synthetic era processes on all the natural fibers--cotton, linen, silk, and wool. A general section on dyeing and mordanting and a glossary introduce the beginner to dye technology. In subsequent chapters, Liles summarizes the traditional dye methods available for each major color group. Scores of recipes provide detailed instructions on how to collect ingredients--flowers, weeds, insects, wood, minerals--prepare the dyevat, troubleshoot, and achieve specific shades"--Publisher's description.

Pig the Pug celebrates Halloween in this picture book from #1 New York Times bestselling author-illustrator Aaron Blabey. Pig was a pug and I'm sorry to say, on Halloween night he'd get carried away... Pig, the world's greediest pug, is on the rampage for TREATS! TREATS! TREATS! But don't even think about being stingy with the goodies, because this candy-fueled glutton has some terrible tricks up his sleeve... Rich with author-illustrator Aaron Blabey's signature rhyming text and unforgettable illustrations, Pig the Monster is a laugh-out-loud

story that follows the eight previous books in the series (Pig the Pug, Pig the Winner, Pig the Elf, Pig the Star, Pig the Fibber, Pig the Stinker, Pig the Tourist, and Pig the Slob).

If you investigate biological systems and might use mass spectrometry in your research but need to know more about it, this book is for you. It introduces the fundamental concepts of mass spectrometry and how mass spectrometers work. It also presents recent advancements particularly interesting to bio-researchers in an easy-to-understand manner that does not require extensive background in chemistry, math, or physics. Glossary of basic terms Abundant illustrations Examples of applications Practical tips on using mass spectrometric techniques Useful for peptide, protein, oligonucleotide, and carbohydrate analysis Simplified description of mass spectrometry including: Matrix-Assisted Laser Desorption/Ionization (MALDI) Electrospray Ionization (ESI) Fast Atom/Ion Bombardment (FAB)

The science columnist for Babble.com and a Mommy and Me counselor challenges the practices of popular sleep methods to outline mindfulness-based techniques for helping both babies and their sleep-deprived caregivers to sleep in healthy ways. Original. 15,000 first printing.

Throughout most of the twentieth century, electric propulsion was considered the

technology of the future. Now, the future has arrived. This important new book explains the fundamentals of electric propulsion for spacecraft and describes in detail the physics and characteristics of the two major electric thrusters in use today, ion and Hall thrusters. The authors provide an introduction to plasma physics in order to allow readers to understand the models and derivations used in determining electric thruster performance. They then go on to present detailed explanations of: Thruster principles Ion thruster plasma generators and accelerator grids Hollow cathodes Hall thrusters Ion and Hall thruster plumes Flight ion and Hall thrusters Based largely on research and development performed at the Jet Propulsion Laboratory (JPL) and complemented with scores of tables, figures, homework problems, and references, Fundamentals of Electric Propulsion: Ion and Hall Thrusters is an indispensable textbook for advanced undergraduate and graduate students who are preparing to enter the aerospace industry. It also serves as an equally valuable resource for professional engineers already at work in the field.

Learn powerful techniques for successfully managing modern projects, programs, and portfolios in any environment, no matter how complex. Mastering Project, Program, and Portfolio Management addresses several make-or-break issues associated with successful project management: organizational structure, linkages between project

management and operations, and definitions and interrelationships amongst projects, programs and portfolios. Unlike other books, which address these issues only in passing, this book drills down to offer practical, real-world concepts, in-the-trenches insights, and proven applications. You'll learn how to: Plan projects and strategies to reflect your organization's needs and structures Develop and implement a successful Project Management Office (PMO) Organize projects, programs, and portfolios Systematically maximize the business value of project management This book is part of a new series of six cutting-edge project management guides for both working practitioners and students. Like all books in this series, it offers deep practical insight into the successful design, management, and control of complex modern projects. Using real case studies and proven applications, expert authors show how multiple functions and disciplines can and must be integrated to achieve a successful outcome. Individually, these books focus on realistic, actionable solutions, not theory. Together, they provide comprehensive guidance for working project managers at all levels, as well as indispensable knowledge for anyone pursuing PMI/PMBOK certification or other accreditation in the field.

Explores the practical art and science of mindfulness as it relates to the traditions of Buddhism with a helpful guide to improving a mindful stance and an awareness of life experiences in any situation or circumstance.

Are you ready to break out of the lesson-and-worksheet rut? Use The EduProtocol

Field Guide to create engaging and effective instruction, build culture, and deliver content to K-12 students in a supportive, creative environment.

Advanced animation - Learn How to draw animated cartoons.

Agile Practice Guide – First Edition has been developed as a resource to understand, evaluate, and use agile and hybrid agile approaches. This practice guide provides guidance on when, where, and how to apply agile approaches and provides practical tools for practitioners and organizations wanting to increase agility. This practice guide is aligned with other PMI standards, including A Guide to the Project Management Body of Knowledge (PMBOK® Guide) – Sixth Edition, and was developed as the result of collaboration between the Project Management Institute and the Agile Alliance.

This text presents a modern theory of analysis, control, and optimization for dynamic networks. Mathematical techniques of Lyapunov drift and Lyapunov optimization are developed and shown to enable constrained optimization of time averages in general stochastic systems. The focus is on communication and queueing systems, including wireless networks with time-varying channels, mobility, and randomly arriving traffic. A simple drift-plus-penalty framework is used to optimize time averages such as throughput, throughput-utility, power, and distortion. Explicit performance-delay tradeoffs are provided to illustrate the cost of approaching optimality. This theory is also applicable to problems in operations research and economics, where energy-efficient and profit-maximizing decisions must be made without knowing the future. Topics in the

text include the following: - Queue stability theory - Backpressure, max-weight, and virtual queue methods - Primal-dual methods for non-convex stochastic utility maximization - Universal scheduling theory for arbitrary sample paths - Approximate and randomized scheduling theory - Optimization of renewal systems and Markov decision systems Detailed examples and numerous problem set questions are provided to reinforce the main concepts. Table of Contents: Introduction / Introduction to Queues / Dynamic Scheduling Example / Optimizing Time Averages / Optimizing Functions of Time Averages / Approximate Scheduling / Optimization of Renewal Systems / Conclusions

You can get into the perfect school! You may think that getting an acceptance letter from selective colleges and universities is a mad dash to the top that only the very best students survive, and those who make it are just the lucky ones. Stress levels soar as it feels like the bar is rising higher and everything is out of your control. But that's not true! You can take control, and you can do it in a way that's as effective as it is empowering. From describing your extracurriculars to interviews with admission officers, it comes down to two questions: What matters most to you? How does it manifest in your life? The answers will give direction to every part of the admission process. Ethan Sawyer (the College Essay Guy), along with dozens of top admission experts, will help you stand out by showing colleges and universities how your values and your drive will change you, your alma mater, and the world. Inside you'll find... Advice and insight from

a team of counselors, advisors, and deans of admission Interactive exercises that quickly and easily provide the best content for your application Access to a massive database of online resources, including organizational tools and in-depth guides Guidance for veterans, students with learning differences, LGBTQ+ students, students interested in women's colleges or HBCUs, and more www.collegeessayguy.com Use Michael Hartl's Acclaimed Video Lessons and Best-Selling Book Side by Side to Master Rails Fast! LiveLessons™ DVD with 18+ hours of video instruction–a $150 value Michael Hartl's Ruby on Rails™ 3 Tutorial, the #1 hands-on guide to Rails web programming–a $40 value A $190 value, this package delivers instant skills, answers, and solutions from 18+ hours of video LiveLessons (a $150 value)…plus deeper insights from Ruby on Rails™ 3 Tutorial, the #1 Rails development guide (a $40 value). About the LiveLessons DVD These focused video lessons help you learn crucial new skills fast–and put them to work immediately! Watch top Rails developer Michael Hartl guide you through building a complete application using today's best practices for MVC and REST design, layout, Ruby coding, security, testing, deployment, and more. Just place the DVD video in your computer's DVD drive, and master Rails the easy way. A lively and entertaining book with immediate value to anyone who ever has to face an audience.This new edition now also applies to any situation that calls for about a positive attitude and learning to be in a comfort zone where youll be free to communi Designed specifically for undergraduate writing, this easy-to-use pocket guide provides

complete guidance for new writers on effective, clear, and inclusive scholarly communication and the essentials of formatting papers and other course assignments. Give your child a smart start with the revised and updated What Your First Grader Needs to Know What will your child be expected to learn in the first grade? How can you help him or her at home? How can teachers foster active, successful learning in the classroom? This book answers these all-important questions and more, offering the specific shared knowledge that hundreds of parents and teachers across the nation have agreed upon for American first graders. Featuring a new Introduction, filled with opportunities for reading aloud and fostering discussion, this first-grade volume of the acclaimed Core Knowledge Series presents the sort of knowledge and skills that should be at the core of a challenging first-grade education. Inside you'll discover • Favorite poems—old and new, such as "The Owl and the Pussycat," "Wynken, Blynken, and Nod," and "Thirty Days Hath September" • Beloved stories—from many times and lands, including a selection of Aesop's fables, "Hansel and Gretel," "All Stories Are Anansi's," "The Tale of Peter Rabbit," and more • Familiar sayings and phrases—such as "Do unto others as you would have them do unto you" and "Practice makes perfect" • World and American history and geography—take a trip down the Nile with King Tut and learn about the early days of our country, including the story of Jamestown, the Pilgrims, and the American Revolution • Visual arts—fun activities plus reproductions of masterworks by Leonardo da Vinci, Vincent van Gogh, Paul Cézanne,

Georgia O'Keeffe, and others • Music—engaging introductions to great composers and music, including classical music, opera, and jazz, as well as a selection of favorite children's songs • Math—a variety of activities to help your child learn to count, add and subtract, solve problems, recognize geometrical shapes and patterns, and learn about telling time • Science—interesting discussions of living things and their habitats, the human body, the states of matter, electricity, our solar system, and what's inside the earth, plus stories of famous scientists such as Thomas Edison and Louis Pasteur NEW YORK TIMES BESTSELLER • A sharp, funny grammar guide they'll actually want to read, from Random House's longtime copy chief and one of Twitter's leading language gurus NAMED ONE OF THE BEST BOOKS OF THE YEAR BY O: The Oprah Magazine • Paste • Shelf Awareness "Essential (and delightful!)"—People We all write, all the time: books, blogs, emails. Lots and lots of emails. And we all want to write better. Benjamin Dreyer is here to help. As Random House's copy chief, Dreyer has upheld the standards of the legendary publisher for more than two decades. He is beloved by authors and editors alike—not to mention his followers on social media—for deconstructing the English language with playful erudition. Now he distills everything he has learned from the myriad books he has copyedited and overseen into a useful guide not just for writers but for everyone who wants to put their best prose foot forward. As authoritative as it is amusing, Dreyer's English offers lessons on punctuation, from the underloved semicolon to the enigmatic en dash; the rules and nonrules of grammar,

including why it's OK to begin a sentence with "And" or "But" and to confidently split an infinitive; and why it's best to avoid the doldrums of the Wan Intensifiers and Throat Clearers, including "very," "rather," "of course," and the dreaded "actually." Dreyer will let you know whether "alright" is all right (sometimes) and even help you brush up on your spelling—though, as he notes, "The problem with mnemonic devices is that I can never remember them." And yes: "Only godless savages eschew the series comma." Chockful of advice, insider wisdom, and fun facts, this book will prove to be invaluable to everyone who wants to shore up their writing skills, mandatory for people who spend their time editing and shaping other people's prose, and—perhaps best of all—an utter treat for anyone who simply revels in language. Praise for Dreyer's English "Playful, smart, self-conscious, and personal . . . One encounters wisdom and good sense on nearly every page of Dreyer's English."—The Wall Street Journal "Destined to become a classic."—The Millions "Dreyer can help you . . . with tips on punctuation and spelling. . . . Even better: He'll entertain you while he's at it."—Newsday This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Used by sites as varied as Twitter, GitHub, Disney, and Airbnb, Ruby on Rails is one of the most popular frameworks for developing web applications, but it can be challenging to learn and use. Whether you're new to web development or new only to Rails, Ruby on Rails™ Tutorial, Fourth Edition, is the solution. Best-selling author and leading Rails

developer Michael Hartl teaches Rails by guiding you through the development of three example applications of increasing sophistication. The tutorial's examples focus on the general principles of web development needed for virtually any kind of website. The updates to this edition include full compatibility with Rails 5, a division of the largest chapters into more manageable units, and a huge number of new exercises interspersed in each chapter for maximum reinforcement of the material. This indispensable guide provides integrated tutorials not only for Rails, but also for the essential Ruby, HTML, CSS, and SQL skills you need when developing web applications. Hartl explains how each new technique solves a real-world problem, and then he demonstrates it with bite-sized code that's simple enough to understand, yet novel enough to be useful. Whatever your previous web development experience, this book will guide you to true Rails mastery. This book will help you Install and set up your Rails development environment, including pre-installed integrated development environment (IDE) in the cloud Go beyond generated code to truly understand how to build Rails applications from scratch Learn testing and test-driven development (TDD) Effectively use the Model-View-Controller (MVC) pattern Structure applications using the REST architecture Build static pages and transform them into dynamic ones Master the Ruby programming skills all Rails developers need Create high-quality site layouts and data models Implement registration and authentication systems, including validation and secure passwords Update, display, and delete users Upload images in

production using a cloud storage service Implement account activation and password reset, including sending email with Rails Add social features and microblogging, including an introduction to Ajax Record version changes with Git and create a secure remote repository at Bitbucket Deploy your applications early and often with Heroku

Copyright: 2e84a279c0b2c874c7bd2eab42fd4497