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Vernon L. Grose Randall Fuller Larry Wasserman Bon Ku Philip G. Altbach Antonio R. Damasio Susan Ferriss Debbie Dadey Anthony J. Nitko Linda Flower Jay L. Wile Margaret Canovan Eugene F. Provenzo, Jr. Richard Madden Library of Congress. Copyright Office Anne Waugh John A. Glover Daniel B. Botkin Iris R. Weiss Cathie Hilterbran Cooper United States. Congress. House. Committee on Education Grace M. Burton United States. National Bureau of Standards United States. National Bureau of Standards

there s a silent epidemic in western civilization and it is right under our noses our jaws are getting smaller and our teeth crooked and crowded creating not only aesthetic challenges but also difficulties with breathing modern orthodontics has persuaded us that braces and oral devices can correct these problems while teeth can certainly be straightened what about the underlying causes of this rapid shift in oral evolution and the health risks posed by obstructed airways sandra kahn and paul r ehrlich a pioneering orthodontist and a world renowned evolutionist respectively present the biological dietary and cultural changes that have driven us toward this major health challenge they propose simple adjustments that can alleviate this developing crisis as well as a major alternative to orthodontics that promises more significant long term relief jaws will change your life every parent should read this book

contains 43 readings to serve as models of good writing students apply techniques modeled in the selections to their own writing

patients and families coping with scoliosis and other spinal deformities are increasingly seeking better solutions for care and management the recent worldwide expansion of the schroth method an exercise rehabilitation treatment originating in germany and its new advancements in compatible bracing have led to the need for an overview of evidence based treatment principles this comprehensive textbook is the first of its kind from the schroth best practice academy an international group of highly esteemed and experienced scoliosis practitioners and researchers a collaborative body of work it focuses on the most common spinal deformities and provides current methods of non surgical treatment it highlights cutting edge treatment options often disregarded by mainstream medicine and will serve to guide and enhance the knowledge of conservative treatment practitioners desiring to help patients improve treatment outcomes and quality of life

a naturalist deals informally with the way in which totally unexpected twists in the evolutionary process bring renewal of hope in the life of our planet

if you need to conduct market research for your company a good questionnaire is a vital tool questionnaire design covers anything and everything you need to know about constructing the perfect questionnaire for your business taking you through every step of the process and encouraging you to really think about what you are

asking and what data you want to find out questionnaire design is an essential guide for marketers everywhere whether you are a student of marketing have market research skills that need updating or simply want a handbook to refer to as the need arises questionnaire design is the book for you now fully updated to include vital information about online questionnaires and interviews their problems and potential this book will be a useful addition to the bookshelf of every market research practitioner

an instant new york times bestseller unreasonably entertaining reveals how geometric thinking can allow for everything from fairer american elections to better pandemic planning the new york times from the new york times bestselling author of how not to be wrong himself a world class geometer a far ranging exploration of the power of geometry which turns out to help us think better about practically everything how should a democracy choose its representatives how can you stop a pandemic from sweeping the world how do computers learn to play go and why is learning go so much easier for them than learning to read a sentence can ancient greek proportions predict the stock market sorry no what should your kids learn in school if they really want to learn to think all these are questions about geometry for real if you re like most people geometry is a sterile and dimly remembered exercise you gladly left behind in the dust of ninth grade along with your braces and active romantic interest in pop singers if you recall any of it s plodding through a series of miniscule steps only to prove some fact about triangles that was obvious to you in the first place that s not geometry okay it is geometry but only a tiny part which has as much to do with geometry in all its flush modern richness as conjugating a verb has to do with a great novel shape reveals the geometry underneath some of the most important scientific political and philosophical problems we face geometry asks where are things which things are near each other how can you get from one thing to another thing those are important questions the word geometry comes from the greek for measuring the world if anything that s an undersell geometry doesn t just measure the world it explains it shape shows us how

once again our nation has a powerful need for a revolution devoted to creating scientists as we face the challenges of climate change global competitiveness biodiversity loss energy needs and dwindling food supplies we nd ourselves in a period where both scientific literacy and the pool of next generation scientists are dwindling to solve these complex issues and maintain our own national security we have to rebuild a national ethos based on sound science education for all from which a new generation of scientists will emerge the challenge is how to create this transformation those shaping national policy today in 2009 need look no further than what worked a half century ago in 1957 sputnik circled and sent a clarion call for america to become the world s most technologically advanced nation in 1958 congress passed the national defense education act which focused the national will and called for scholars and teachers to successfully educate our youth in science math and engineering it was during this

time period that paul f brandwein emerged as a national science education leader to lay the foundation for the changes needed in american education to create the future scientists essential to the nation s well being

the definitive guide to ibm spss combining unbeatable coverage with a tested accessible style this book provides you with a step by step guide to the software and equips you with the knowledge you need to succeed whether you re new to statistical analysis or a more experienced researcher in need of a refresher this book is an essential resource that you ll return to time and time again page 4 of cover

a proposal for a new way to do cognitive science argues that cognition should be described in terms of agent environment dynamics rather than computation and representation while philosophers of mind have been arguing over the status of mental representations in cognitive science cognitive scientists have been quietly engaged in studying perception action and cognition without explaining them in terms of mental representation in this book anthony chemero describes this nonrepresentational approach which he terms radical embodied cognitive science puts it in historical and conceptual context and applies it to traditional problems in the philosophy of mind radical embodied cognitive science is a direct descendant of the american naturalist psychology of william james and john dewey and follows them in viewing perception and cognition to be understandable only in terms of action in the environment chemero argues that cognition should be described in terms of agent environment dynamics rather than in terms of computation and representation after outlining this orientation to cognition chemero proposes a methodology dynamical systems theory which would explain things dynamically and without reference to representation he also advances a background theory gibsonian ecological psychology shored up and clarified chemero then looks at some traditional philosophical problems reductionism epistemological skepticism metaphysical realism consciousness through the lens of radical embodied cognitive science and concludes that the comparative ease with which it resolves these problems combined with its empirical promise makes this approach to cognitive science a rewarding one jerry fodor is my favorite philosopher chemero writes in his preface adding i think that jerry fodor is wrong about nearly everything with this book chemero explains nonrepresentational dynamical ecological cognitive science as clearly and as rigorously as jerry fodor explained computational cognitive science in his classic work the language of thought

the historic science textbook struggle a worldwide battle about the origin of the universe life and man erupted without warning it caught the scientific illuminati completely by surprise why because science textbooks had become filled with wild unbelievable stories about the beginning of everything and those tales were simply not scientific the universe starting with a big bang life arising out of a soup of lifeless amino acids humans produced by apes those myths had only replaced ancient greek mythology and were being passed off as scientific truths caught in the crossfire between educators news media textbook publishers religious notables and

world renowned scientists including nineteen nobel laureates was a private citizen father of six schoolchildren he had only one goal to prove that science never will have answers for origins he was up against the arrogance of scientists who were determined to disguise their private beliefs as being the only explanations for the origin of the universe life and man this story concludes with a great victory for objectivity with more than 200 changes being made in textbooks over the objections of the national academy of sciences all discussion about origins was transformed by admission that stories about them are based solely on personal views of individual scientists remarkably 3 000 scientists around the world later signed an affirmation to assure that this issue of belief over fact in science never be repeated wernher von braun father of america s space program writes in the foreword vernon grose in tracing out in science but not scientists his personal involvement in the vortex of these two forces illustrates one more time the humanity of scientists their likelihood of being just as prejudiced and bigoted as anyone untrained in science he properly calls for objectivity rather than scientific consensus he rightly urges that message rather than messenger should be scrutinized and tested for validity science will be the richer and humanity the ultimate beneficiary by heeding this clarion call

a compelling portrait of a unique moment in american history when the ideas of charles darwin reshaped american notions about nature religion science and race a lively and informative history the new york times book review throughout its history america has been torn in two by debates over ideals and beliefs randall fuller takes us back to one of those turning points in 1860 with the story of the influence of charles darwin s just published on the origin of species on five american intellectuals including bronson alcott henry david thoreau the child welfare reformer charles loring brace and the abolitionist franklin sanborn each of these figures seized on the book s assertion of a common ancestry for all creatures as a powerful argument against slavery one that helped provide scientific credibility to the cause of abolition darwin s depiction of constant struggle and endless competition described america on the brink of civil war but some had difficulty aligning the new theory to their religious convictions and their faith in a higher power thoreau perhaps the most profoundly affected all absorbed darwin s views into his mysterious final work on species migration and the interconnectedness of all living things creating a rich tableau of nineteenth century american intellectual culture as well as providing a fascinating biography of perhaps the single most important idea of that time the book that changed america is also an account of issues and concerns still with us today including racism and the enduring conflict between science and religion

this book is for people who want to learn probability and statistics quickly it brings together many of the main ideas in modern statistics in one place the book is suitable for students and researchers in statistics computer science data mining and machine learning this book covers a much wider range of topics than a typical introductory text on mathematical statistics it includes modern topics like nonparametric curve estimation bootstrapping and classification topics that are

usually relegated to follow up courses the reader is assumed to know calculus and a little linear algebra no previous knowledge of probability and statistics is required the text can be used at the advanced undergraduate and graduate level larry wasserman is professor of statistics at carnegie mellon university he is also a member of the center for automated learning and discovery in the school of computer science his research areas include nonparametric inference asymptotic theory causality and applications to astrophysics bioinformatics and genetics he is the 1999 winner of the committee of presidents of statistical societies presidents award and the 2002 winner of the centre de recherches mathematiques de montreal statistical society of canada prize in statistics he is associate editor of the journal of the american statistical association and the annals of statistics he is a fellow of the american statistical association and of the institute of mathematical statistics

applying the principles of human centered design to real world health care challenges from drug packaging to early detection of breast cancer this book makes a case for applying the principles of design thinking to real world health care challenges as health care systems around the globe struggle to expand access improve outcomes and control costs health design thinking offers a human centered approach for designing health care products and services with examples and case studies that range from drug packaging and exam rooms to internet connected devices for early detection of breast cancer written by leaders in the field bon ku a physician and founder of the innovative health design lab at sidney kimmel medical college and ellen lupton an award winning graphic designer and curator at cooper hewitt smithsonian design museum the book outlines the fundamentals of design thinking and highlights important products prototypes and research in health design health design thinking uses play and experimentation rather than a rigid methodology it draws on interviews observations diagrams storytelling physical models and role playing design teams focus not on technology but on problems faced by patients and clinicians the book s diverse case studies show health design thinking in action these include the development of pillpack which frames prescription drug delivery in terms of user experience design a credit card size device that allows patients to generate their own electrocardiograms and improved emergency room signage drawings photographs storyboards and other visualizations accompany the case studies copublished with cooper hewitt smithsonian design museum

in recent years textbooks have been widely criticized for low standards lack of imaginativeness and insensitivity to racial and gender issues increasingly they are cited as another weak link in american public education this book goes beyond the headlines to examine how textbooks are produced how they are selected and what pressures are placed on textbook authors and publishers the book focuses on the relationship of the textbook to the educational system and includes important issues such as the politics of textbook policy the determinants of textbook content the role of textbooks in educational reform and the process of selection at the state level the

authors offer current research on textbook policy including perspectives from those directly involved with textbooks from several thoughtful analyses by textbook editors and publishers to the views of california s superintendent of public instruction

the publication of this book is an event in the making all over the world scientists psychologists and philosophers are waiting to read antonio damasio s new theory of the nature of consciousness and the construction of the self a renowned and revered scientist and clinician damasio has spent decades following amnesiacs down hospital corridors waiting for comatose patients to awaken and devising ingenious research using pet scans to piece together the great puzzle of consciousness in his bestselling descartes error damasio revealed the critical importance of emotion in the making of reason building on this foundation he now shows how consciousness is created consciousness is the feeling of what happens our mind noticing the body s reaction to the world and responding to that experience without our bodies there can be no consciousness which is at heart a mechanism for survival that engages body emotion and mind in the glorious spiral of human life a hymn to the possibilities of human existence a magnificent work of ingenious science a gorgeously written book the feeling of what happens is already being hailed as a classic

examines the fight of the united farm workers union

the kids at the bailey school begin to suspect that their art teacher a strange woman with white hair and braces is an alien from outer space original

some issues are accompanied by a cd rom on a selected topic

this book is about the social political and cultural content of elementary and secondary textbooks in american education it focuses on the nature of the discourses the content and context that represent what is included in textbooks

this tried and tested textbook provides a basic introduction to anatomy and physiology and provides a brief section on diseases to show what happens when things go wrong

the motivation underlying our development of a handbook of creativity was different from what usually is described by editors of other such volumes our sense that a handbook was needed sprang not from a deluge of highly erudite studies calling out for organization nor did it stem from a belief that the field had become so fully articulated that such a book was necessary to provide summation and reference instead this handbook was conceptualized as an attempt to provide structure and organization for a field of study that from our perspective had come to be a large scale example of a degenerating research program see brown chapter 1 the handbook grew out of a series of discussions that spanned several years at the heart of most of our interactions was a profound unhappiness with the state of research on

creativity our consensus was that the number of good works published on creativity each year was small and growing smaller further we could not point to a journal text or professional organization that was providing leadership for the field in shaping a scientifically sound framework for the development of research programs in creativity at the same time we were casting about for a means of honoring a dear friend e paul torrance our decision was that we might best be able to honor paul and influence research on creativity by developing a handbook designed to challenge traditional perspectives while offering research agendas based on contemporary psychological views

why do we keep talking about so many environmental problems and rarely solve any if these are scientific issues then why can t scientists solve them or at least agree on what to do in his new book the moon in the nautilus shell ecologist daniel botkin explains why for one thing although we live in a world of constantly changing environments and talk a lot about climate change most of our environmental laws policies and scientific premises are based on the idea that the environment is constant never changing except when people affect it for another we have lost contact with nature in personal ways disconnected from our surroundings we lack the deep understanding and feelings about the environment to make meaningful judgments the environment has become just another one of those special interests that interferes with our lives poised to be a core text of the twenty first century environmental movement the moon in the nautilus shell challenges us to think critically about our role in nature

color and shape books for all ages calls attention to more than 450 titles focused on the concepts of color and shape the purposes of the color and shape books range from simply learning the names of colors or identifying simple shapes to recognizing intricate geometric shapes or even understanding how color affects responses moods and attitudes

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The Magical World of `randint`: Unveiling the Secrets of Random Number Generation

Imagine a world without surprises. No unexpected lottery winners, no unpredictable weather patterns, no delightful twists in your favorite video game. Sounds rather dull, doesn't it? The ability to generate randomness is crucial in many aspects of our lives, from scientific simulations to the creation of engaging entertainment. This magic is often powered by a deceptively simple function: `randint`. This article delves into the fascinating world of `randint`, exploring its functionality, applications, and underlying principles. Prepare to be amazed!

What is `randint`? A Deep Dive into Random Integer Generation

`randint`, short for "random integer," is a function found in many programming languages, most notably Python. Its primary purpose is to generate a random integer within a specified range. This means you can tell `randint` to pick a random number between, say, 1 and 100, and it will return a whole number within that interval, including both 1 and 100. The key word here is "random"—the function aims to produce numbers with equal probability, ensuring no number is favored over another. While it appears simple, the generation of truly random numbers is a complex undertaking. Computers, being deterministic machines, cannot generate true randomness in the purest sense. Instead, `randint` relies on a process called pseudo-random number generation (PRNG). PRNGs use algorithms to produce sequences of numbers that appear random but are actually determined by an initial value called a seed. If you use the same seed, you'll get the same sequence of "random" numbers. This determinism is useful for debugging and reproducing results, but it's crucial to understand that true randomness is an ideal rarely achieved in practice.

How `randint` Works: Under the Hood

Most `randint` implementations use a PRNG based on a linear congruential generator (LCG) or more sophisticated algorithms like Mersenne Twister. These algorithms take the current seed value, perform mathematical operations on it (like multiplication, addition, and modulo), and produce a new seed and a random number. This new seed is then used in the next iteration to generate the subsequent random number. The modulo operation ensures the generated number stays within the specified range. For instance, if you want a number between 1 and 10, the modulo operation with 10 will always return a value between 0 and 9; adding 1 shifts this range to 1-10.

Practical Applications of `randint`: From Games to Science

The seemingly simple `randint` function has a wide range of applications across diverse fields:

- Game Development:** `randint` is fundamental to creating engaging gameplay. Think about rolling dice in a board game, generating random enemy positions in a video game, or determining the outcome of a random event. It introduces unpredictability and keeps players on their toes.
- Simulations and Modeling:** Scientists and engineers use `randint` to simulate real-world phenomena. For example, in weather forecasting, random number generation helps model unpredictable atmospheric events. Similarly, in financial modeling, `randint` might simulate market fluctuations.
- Data Science and Machine Learning:** Generating random samples is crucial for tasks like training machine learning models. `randint` ensures that the training data is diverse and representative, preventing bias and improving model accuracy.
- Cryptography (with caution):** While `randint` shouldn't be used directly for cryptographic applications requiring high levels of security (dedicated cryptographically secure pseudorandom number generators (CSPRNGs) are needed), it can play a role in certain aspects of security systems, like creating random salts for password hashing (though again, using a dedicated CSPRNG is highly recommended for production systems).
- Testing and Debugging:** Generating random test cases using `randint` helps ensure the robustness and reliability of software systems by exposing potential issues that might not be apparent with predetermined inputs.

Beyond `randint`: Exploring Other Random Number Functions

While `randint` is excellent for generating random integers within a specific range, other functions offer more specialized random number generation capabilities:

- `random()`: This function generates a random floating-point number between 0 (inclusive) and 1 (exclusive).
- `randrange()`: Similar to `randint`, but excludes the upper bound.
- `choice()`: This function selects a random element from a sequence (list, tuple, etc.).
- `shuffle()`: This function shuffles the elements of a sequence in place, randomly rearranging their order.

Conclusion: The Unsung Hero of Randomness

`randint` might seem like a small, unassuming function, but its impact is vast. It's the

engine that drives unpredictability in games, fuels simulations, and aids in the development of robust software. Understanding its underlying principles and its diverse applications highlights its significance in the world of computing and beyond. From simple games to complex scientific models, `randint` quietly plays a crucial role in making our digital world more engaging, dynamic, and unpredictable.

FAQs

1. Q: Is `randint` truly random? A: No, `randint` utilizes pseudo-random number generation, which produces sequences that appear random but are deterministic based on a seed value. True randomness is difficult to achieve computationally. 2. Q: How can I set the seed for `randint`? A: Most programming languages provide a function (often called `seed()` or `random.seed()`) to initialize the random number generator with a specific value. Using the same seed will produce the same sequence of "random" numbers. 3. Q: What if I need random numbers outside the integer range? A: Use `random()` for floating-point numbers between 0 and 1, or scale and shift the output of `randint` to achieve a desired range. 4. Q: Can I use `randint` for security-sensitive applications? A: No, avoid using `randint` for cryptographic purposes. Use dedicated cryptographically secure pseudorandom number generators (CSPRNGs) for security-critical applications. 5. Q: What programming languages offer a `randint` equivalent? A: Many programming languages have similar functions. Python uses `random.randint()`, while other languages might use variations like `rand()` (C/C++) or `Math.random()` (JavaScript), often requiring adjustments to specify the desired range.

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