

D Is For Digital By Brian W Kernighan

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Verilog Styles for Synthesis of Digital Systems

This book is designed specifically to make the cutting-edge techniques of digital hardware design more accessible to those just entering the field. The text uses a simpler language (Verilog) and standardizes the methodology to the point where even novices can get medium complex designs through to gate-level simulation in a short period of time. Requires a working knowledge of computer organization, Unix, and X windows. Some knowledge of a programming language such as C or Java is desirable, but not necessary. Features a large number of worked examples and problems--from 100 to 100k gate equivalents--all synthesized and successfully verified by simulation at gate level using the VCS compiled simulator, the FPGA Compiler and Behavioral Compiler available from Synopsys, and the FPGA tool suites from Altera and Xilinx. Basic Language Constructs. Structural and Behavioral Specification. Simulation. Procedural Specification. Design Approaches for Single Modules. Validation of Single Modules. Finite State Machine Styles. Control-Point Writing Style. Managing Complexity--Large Designs. Improving Timing, Area, and Power. Design Compiler. Synthesis to Standard Cells. Synthesis to FPGA. Gate Level Simulation and Testing. Alternative Writing Styles. Mixed Technology Design. For anyone wanting an accessible, accelerated introduction to the cutting-edge tools for Digital Hardware Design.

Digital Phase Modulation

Before Stephanie Carovella had nowhere to run and nowhere to hide, she was damaged. Stephanie Carovella has been

running from her past all her life. The survivor of a brutal attack, which left her best friend dead, she has carefully built a protective wall around herself, but she knows sooner or later her past is going to catch up with her. It's why she doesn't want to fall in love. It's why she doesn't want to let anyone get too close. Dominic Delaney works hard and plays just as hard. He's a love 'em and leave 'em guy who doesn't believe in forever until Stephanie walks into Outlaws. She is wild, unpredictable and dangerous as hell, yet, he's drawn to her. He needs to know the secrets behind her eyes. He can't walk away. A sexy, tattooed womanizer, Dominic Delaney's everything Stephanie wants to avoid. She knows she should stay the hell away from him, but he makes her want to stop running. Sometimes, even the Damaged deserve to fall in love.* Please note you do not need to have read the Stephanie Carovella series to read this novel. This is a stand-alone novel.

Haroldsville

What is digital citizenship? Why should educators, students, and parents care? Today, billions of people all over the planet interact using various technologies. This interaction has created a digital society that affords its members opportunities for education, employment, entertainment, and social interaction. As in any society, it is expected that digital citizens act in a certain way according to accepted norms, rules, and laws. Most of today's students are entirely comfortable with technology, but are they using it appropriately? Do they understand their roles and responsibilities in digital society? How can teachers help students become responsible digital citizens? Digital Citizenship in Schools is an essential introduction to digital citizenship. Starting with a basic definition of the concept and an explanation of its relevance and importance, the authors go on to explore the nine elements of digital citizenship. They provide a useful audit and professional development activities to help educators determine how to go about integrating digital citizenship concepts into the classroom. Activity ideas and lesson plans round out this timely book. Also available: Educator's Podcast Guide - ISBN 1564842312 What Works in K-12 Online Learning - ISBN 1564842363 About the Author Mike Ribble has served as a classroom biology teacher, a secondary school administrator, a network manager for a community college, and a university instructor. He received a doctorate in educational leadership from Kansas State University. Gerald D. Bailey is a professor of educational administration and leadership in the College of Education at Kansas State University. He received his doctorate from the University of Nebraska in 1972. Before earning his doctorate he was a teacher, lead teacher, and supervisor for Lincoln Public Schools in Lincoln, Nebraska.

Digital Imaging in Popular Cinema

The Alplai have lived in peace and prosperity for centuries, spreading beyond their homeworld's single continent into floating cities on its vast oceans, and colonizing the planets and moons of their solar system. Now, a massive alien vessel has come, carrying over a million colonists in cryogenic stasis from a devastated world. Ganak, the recently appointed

Commissioner for Space Exploration, advocates that the Terai be allowed to settle in the newly prepared Eastern Sector of the planet Totrana. The proposal is approved, and the avian-descended Alplai work with this strange mammalian species to help them build a new home. But not all the Alplai welcome these creatures. Many are concerned about their warlike past, and when a new disease erupts on Totrana, the aliens are quickly blamed. Despite their contributions, the Terai face discrimination and harassment. How far can Ganak use his influence to help, and what leaders will emerge amongst them as they strive to build a new life?

Information Security and Auditing in the Digital Age

Color and Mastering for Digital Cinema explores the implications for motion picture post production processes and changes required to the supporting equipment and software. While a new concept to the motion picture community, the selection of the wide gamut, output-referred XYZ color space for digital cinema distribution is based on decades of color science and experience in other industries. The rationale for choosing XYZ and the other color encoding parameters is explained and the book also provides a full case study of the development of DLP Cinema® projectors by Texas Instruments. Finally, this book explores how the XYZ color encoding concept can be extended to support enhanced display technologies in the future. This book contains: * Brilliant 4-color illustrations that compliment the color science explanations * Never before published industry information from author Glenn Kennel, a world leader in digital cinema color technology * Descriptions of key issues and background on decisions that were made in the standardization process By Glenn Kennel, Glenn Kennel is VP/GM of Feature Film Services at Laser Pacific Media Corporation, a leading provider of a full range of post production services for television and feature film. Recently, he worked for the DLP Cinema group of Texas Instruments in a role that included technology and business development. Previously, in a twenty year career with Kodak, he led the development of the Cineon digital film scanners and laser recorders and the prototype HDTV telecine that became the Spirit Datacine. As a consultant, he helped DCI draft the technical specifications for digital cinema. Kennel also chairs the SMPTE DC28 Color ad hoc group and the DC28.20 Distribution working group. He is a SMPTE Fellow and has received the SMPTE Journal Award. He is also a member of the Academy of Motion Picture Arts and Sciences.

Color and Mastering for Digital Cinema

Book Excerpt: Jack Morgan, Jack Morgan '--jus' like that. An' she eats just nothin' now. Always hangin' round the windows to watch you pass."The perspiration stood out in beads on Mr. Morgan's brow."It's--horrible," he said at last in a hoarse whisper. William was gratified. The young man had at last realised his cruelty. But William never liked to leave a task half done. He still sat on and calmly and silently considered his next statement. Mechanically he put a hand into his pocket and conveyed a Gooseberry Eye to his mouth. Mr. Morgan also sat in silence with a stricken look upon his face, gazing into

vacancy. "She's got your photo," said William at last, "fixed up into one of those little round things on a chain round her neck." "Are--you--sure?" said Mr. Morgan desperately. "Sure's fate," said William rising. "Well, I'd better be goin'. She partic-ler wants to see you alone to-night. Good-bye." But Mr. Morgan did not answer. He sat huddled up in his

Damaged

Covers the essential fundamentals of digital video: from video principles, to conversion, compression, coding, interfaces and output. Written for television professionals needing to apply digital video systems, equipment and techniques to multimedia and /or digital TV applications, as well as for computer system designers, engineers, programmers, or technicians needing to learn how to apply digital video to computer systems and applications. The text is based on the acclaimed industry `bible' The Art of Digital Video, but covers only the essential parts of this larger reference work. It starts right from the basics from what a digital signal is to the how digital video can be applied. John Watkinson is an international consultant in Audio, Video and Data Recording. He is a fellow of the AES, a member of the British Computer Society and Chartered Information Systems Practitioner. He presents lectures, seminars, conference papers and training courses worldwide. He is author of many other Focal press books including MPEG2, Art of Digital Video, Art of Digital Audio, Art of Sound Reproduction, Introduction to Digital Audio, Television Fundamentals and Audio for Television. He is also co-author of the Digital Interface Handbook and a contributor to The Loudspeaker and Headphone Handbook. new edition has more on the computing aspects of video includes extra material on digital video broadcasting and video principles covers more basic colorimetry and picture principles as well as progressive versus interface scanning

Digital Logic Circuits

Digital Systems

I see myself as a person at war, and the battle is against evil, and the weapon I am using to defeat my adversary is the pen. My aim is to dispense, as much as I possibly can, the truth in regard to the nature of my nemesis. There is an expression which very much describes my present circumstance, and how I am able to do what I do; "Keep your friends close, and your enemies closer". I am quite literally in the trenches, on the battle field, surrounded by my enemy. Lives are lost every day in the mine field deployed by those who are sick and depraved beyond belief; ask any of those who witness the same as I, and you will, practically without exception, not be told anything about what they have seen and heard, or a claim will be made that they have seen or heard nothing.

The Boy and the Tower

Explores how film analysis can take account of the presence of digital images in cinema. Not just for digital effects enthusiasts, this book is essential for anyone interested in how to approach film critically: it is a toolbox for contemporary film analysis

Lineage of the Saints

Aquaponics is a method of growing fish and vegetables in a simple recirculating system. This book is designed and written to provide basic information and direction for people interested in building a backyard aquaponics system. It is NOT a "how-to" manual listing parts and with step-by-step procedures, but it's more like a conversation that you might have with a good friend about how he built his system. It is written to be easily understandable and includes lots of pictures and graphics. NOTE: This 5.5"x8.5" version contains the same information as the first edition however the physical size has been substantially reduced.

Heart, Soul and More

D is for Digital

The Diary of a Nobody is an English comic novel that records the daily events in the lives of a London clerk, Charles Pooter, his wife Carrie, his son Lupin, and numerous friends and acquaintances over a period of 15 months.

Just--William

The basics of how computer hardware, software, and systems work, and the risks they create for our privacy and security. Computers are everywhere. Some of them are highly visible, in laptops, tablets, cell phones, and smart watches. But most are invisible, like those in appliances, cars, medical equipment, transportation systems, power grids, and weapons. We never see the myriad computers that quietly collect, share, and sometimes leak vast amounts of personal data about us. Through computers, governments and companies increasingly monitor what we do. Social networks and advertisers know far more about us than we should be comfortable with, using information we freely give them. Criminals have all-too-easy access to our data. Do we truly understand the power of computers in our world? Understanding the Digital World explains how computer hardware, software, networks, and systems work. Topics include how computers are built and how they

compute; what programming is and why it is difficult; how the Internet and the web operate; and how all of these affect our security, privacy, property, and other important social, political, and economic issues. This book also touches on fundamental ideas from computer science and some of the inherent limitations of computers. It includes numerous color illustrations, notes on sources for further exploration, and a glossary to explain technical terms and buzzwords. Understanding the Digital World is a must-read for all who want to know more about computers and communications. It explains, precisely and carefully, not only how they operate but also how they influence our daily lives, in terms anyone can understand, no matter what their experience and knowledge of technology.

You Gotta Have Wings

Life hasn't been kind to Adam Sellars lately. In the past year he has broken up with his fiancée, barely survived a terrible car wreck, and had his brother's family vanish while he lay unconscious in the hospital. Since then he has been a crippled shell going through the motions of life with nothing but the search for his brother to keep him going. But Adam is about to discover that things can still take a turn for the worse. Much worse. His quest for his lost brother has brushed up against a very dark corner of the world and something has come out of that darkness with an unholy vengeance. He can't fight it, he can't hide from it, and not even the police can protect him as his world descends into chaos. His only hope lies in a mysterious pair of strangers who have appeared out of nowhere with an offer of aid. But they have their own agenda, and his survival may not be their top priority. Now Adam must keep his wits about him and learn to believe in himself again as events send him on a collision course with a monster more horrific than he ever dreamed possible.

Digital Signal Processing in Power Electronics Control Circuits

This book explains hardware, software and communications, precisely and carefully but in terms that anyone can understand, no matter what their experience and knowledge of technology.

Digital Communication

Suicide. That's what being with Kate Browdy is. She's sick. And now my father has knocked her out because her immune system can't deal with this virus. Seven years of fighting leukemia is destroying her. I can't deal with this. I'm not strong like her. Survival instinct kicks in, so I do what I know-I call Ellie. Numb the pain. But there shouldn't even be pain. What is it about this girl? She's not good for me, and I'm not good for her. I'm a freaking disaster, and Kate deserves better. Maybe it's time to cut my losses.

Boundaries

This book analyses different A/D-converter architectures with an emphasis on the maximum achievable power efficiency. It also provides an accessible overview of the state-of-the art in calibration techniques for Nyquist A/D converters. The calibration techniques presented are applicable to other analog-to-digital systems, such as those applied in integrated receivers. They allow implementation without introducing a speed or power penalty.

Digital Habitats

Many digital control circuits in current literature are described using analog transmittance. This may not always be acceptable, especially if the sampling frequency and power transistor switching frequencies are close to the band of interest. Therefore, a digital circuit is considered as a digital controller rather than an analog circuit. This helps to avoid errors and instability in high frequency components. Digital Signal Processing in Power Electronics Control Circuits covers problems concerning the design and realization of digital control algorithms for power electronics circuits using digital signal processing (DSP) methods. This book bridges the gap between power electronics and DSP. The following realizations of digital control circuits are considered: digital signal processors, microprocessors, microcontrollers, programmable digital circuits. Discussed in this book is signal processing, starting from analog signal acquisition, through its conversion to digital form, methods of its filtration and separation, and ending with pulse control of output power transistors. The book is focused on two applications for the considered methods of digital signal processing: an active power filter and a digital class D power amplifier. The major benefit to readers is the acquisition of specific knowledge concerning discussions on the processing of signals from voltage or current sensors using a digital signal processor and to the signals controlling the output inverter transistors. Included are some Matlab examples for illustration of the considered problems.

Digital System Design

Spotlighting a unique service that provides a competitive edge to any professional photographer, this thorough handbook teaches all of the essential skills for creating glamorous portraits. Stressing the importance of facilitating a stronger, healthier sense of self-admiration, tips are provided for emphasizing the subject's desirable features and downplaying perceived flaws. Offering breakthrough techniques for applying highlight and shadow, corrective posing, camera tricks, and digital enhancements, this superbly illustrated guide also provides 17 makeover sample sessions. Each case documents an untouched starting photo and analyzes desired goals, followed by detailed discussions and step-by-step demonstrations of the varied techniques used for addressing problem areas and creating a masterful image, including an array of Photoshop® time-saving tips and shortcuts. Each final portrait is coupled with a statement from the subject—a touching testimony on

the positive personal effects of their session.

Calibration Techniques in Nyquist A/D Converters

Jerry D's Extreme Makeover Techniques for Digital Glamour Photography

In 2009, Avatar, a 3-D movie directed by James Cameron, became the most successful motion picture of all time, a technological breakthrough that has grossed more than \$2.5 billion worldwide. Its seamless computer-generated imagery and live action stereo photography effectively defined the importance of 3-D to the future of cinema, as well as all other currently evolving digital displays. Though stereoscopic cinema began in the early nineteenth century and exploded in the 1950s in Hollywood, its present status as an enduring genre was confirmed by Avatar's success. 3-D Revolution: The History of Modern Stereoscopic Cinema traces the rise of modern 3-D technology from Arch Oboler's Bwana Devil (1952), which launched the 50s 3-D boom in Hollywood, to the rapidly-modernizing 3-D industry today. Ray Zone takes a comprehensive approach that not only examines the technology of the films, but also investigates the business, culture, and art of their production. Influencing new generations of filmmakers for decades, the evolution of 3-D cinema technology continues to fill our theaters with summer blockbusters and holiday megahits.

Modern Digital Electronics

Lineage of Major saints Explained, Showing actual lines with all ancestors listed. Some Lines contain many Saints. Lines from Noah to Sarai, Lines from Biblical Figures. Lines begin with Levi, Judah, Zerah, Joseph, Terah, Abraham, Noah, Pharoabs, Macedonians. Complete Line from Joseph the Israelite to Charlemagne Some of the included saints: Saint Louis IX. Saint Joseph of Arimathea, Saint Mary Magdalene, Saint Dewi, Saint Delen of the Cross, saint Fernando III Saint Alfred the Great, saint Patrick, Saint Dominic, saint Constantine, Blessed Charlemagne OVER 60 LINES OF SAINTS Also Found in the Book The lines of the Nine Worthiest Warriors Charts of Saints, Rachel and Leah's Children. Offer for Research Gedcom

D.quarks - The Path to Digital Business

One of the main trends of microelectronics is toward design for integrated systems, i.e., system-on-a-chip (SoC) or system-on-silicon (SoS). Due to this development, design techniques for mixed-signal circuits become more important than before. Among other devices, analog-to-digital and digital-to-analog converters are the two bridges between the analog and the digital worlds. Besides, low-power design technique is one of the main issues for embedded systems, especially for hand-

held applications. Modular Low-Power, High-Speed CMOS Analog-to-Digital Converter for Embedded Systems aims at design techniques for low-power, high-speed analog-to-digital converter processed by the standard CMOS technology. Additionally this book covers physical integration issues of A/D converter integrated in SoC, i.e., substrate crosstalk and reference voltage network design.

Modular Low-Power, High-Speed CMOS Analog-to-Digital Converter of Embedded Systems

Love a word associated with so many emotions at once. The poems in this book re-tell those emotions in various ways. The emotions felt when in love, heartbroken or just looking for love all in one book speaking a language to you that you will resonate with.

Understanding the Digital World

This book explains how today's computing and communications world operates, from hardware through software to the Internet and the web. It includes enough detail that you can understand how these systems work, no matter what your technical background. The social, political and legal issues that new technology creates are discussed as well, so you can understand the difficult issues we face and appreciate the tradeoffs that have to be made to resolve them. A compact but detailed and thorough explanation of how computers and communications systems work, for non-technical readers who want to better understand the world they live in. A great source for technical readers who want something that will help their friends and family learn about digital systems.

The Diary of a Nobody

[digital] Visual Effects and Compositing

Networking Technology for Digital Devices

Jerry D Young was born at home, in Senath, Missouri July 3, 1953. At age 5 the family rented a small farm house on an active farm 40 miles southwest of St. Louis. While the family weren't farmers, they lived something of a homestead type life, raising a milk cow, sometimes two, and calves, a pig or two, chickens, and the occasional goat. Along with the stock, a large garden helped to feed Jerry's three brothers and two sisters for several years. Fishing and hunting contributed to the

pantry, as did foraging the wild edibles on the property. At the age of 14, the family, minus a brother and two sisters that were now adults and on their own, moved back to Senath. Having been encouraged from an early age to read, Jerry was a regular patron of the Senath Branch Library. A love of a good story was born within him, and shortly before graduating high school, for a lack of stories that he liked at the library, he began to write short vignettes, and started taking notes for stories that he wanted to tell. Well, a full life interceded, and the writing didn't resume for several years. But while working a job with a much free time, and the then newfangled home computer, Jerry began to write in earnest. With the occasional gap in the process, Jerry continued to research and write, never believing he could ever be published. But when he turned 50, he wanted a change in his life, left the job he was doing and began focusing on his writing. When he became ill, the writing stopped, but not the inspiration. When he started writing again, in 2004, after getting the medical problems under control, he began to read some on-line stories dealing with emergency preparedness, one of his other loves. The die was cast. Now with over a hundred of the vignettes and short stories about how to survive disasters written, along with his other novels, Jerry decided to go for broke, adding one of his previous works every few days to his list of stories now available, Jerry continues to write, both the Prep/PAW stories, as well as action adventure with a little romance type stories that first got him started.

Digital Citizenship in Schools

The last ten years have seen a great flowering of the theory of digital data modulation. This book is a treatise on digital modulation theory, with an emphasis on these more recent innovations. It has its origins in a collaboration among the authors that began in 1977. At that time it seemed odd to us that the subjects of error-correcting codes and data modulation were so separated; it seemed also that not enough understanding underlay the mostly ad hoc approaches to data transmission. A great many others were intrigued, too, and the result was a large body of new work that makes up most of this book. Now the older disciplines of detection theory and coding theory have been generalized and applied to the point where it is hard to tell where these end and the theories of signal design and modulation begin. Despite our emphasis on the events of the last ten years, we have included all the traditional topics of digital phase modulation. Signal space concepts are developed, as are simple phase-shift-keyed and pulse-shaped modulations; receiver structures are discussed, from the simple linear receiver to the Viterbi algorithm; the effects of channel filtering and of hardlimiting are described. The volume thus serves well as a pedagogical book for research engineers in industry and second-year graduate students in communications engineering. The production of a manageable book required that many topics be left out.

Analog And Digital Electronics

Boundaries is a disturbing story about the blurred lines between love and betrayal, freedom and control, fantasy and

treachery, good and evil, past and future. Diane Alders is a successful, workoholic sales executive in the medical field who has a void in her heart as a result of the tragic death of her husband seven years ago. Mickey Rollins is a genius and entrepreneur about to introduce a revolutionary new therapy that will 'repair' injured or impaired brains. Their sputtering romance hits full speed when Mickey invites Diane to accompany him on a lavish and bizarre vacation to the exotic South Seas intended to stretch their senses, fulfill wild dreams, and bring them closer together. Disaster strikes, and it is Diane who becomes Mickey's first human test subject. There's a catch...the healing process requires a surrogate, and Mickey chooses their mutual friend, lover and temptress—the beautiful Suki. The resurrection of Diane that transpires is not only a transfer of physical and cerebral attributes, but a blending of relationships, feelings, and emotions, drawing many into the fray, ending as shockingly as it begins.

Lamikorda

This book provides a recent and relevant coverage based on a systematic approach. Especially suitable for practitioners and managers, the book has also been classroom tested in IS/IT courses on security. It presents a systematic approach to build total systems solutions that combine policies, procedures, risk analysis, threat assessment through attack trees, honeypots, audits, and commercially available security packages to secure the modern IT assets (applications, databases, hosts, middleware services and platforms) as well as the paths (the wireless plus wired network) to these assets. After covering the security management and technology principles, the book shows how these principles can be used to protect the digital enterprise assets. The emphasis is on modern issues such as e-commerce, e-business and mobile application security; wireless security that includes security of Wi-Fi LANs, cellular networks, satellites, wireless home networks, wireless middleware, and mobile application servers; semantic Web security with a discussion of XML security; Web Services security, SAML (Security Assertion Markup Language) and .NET security; integration of control and audit concepts in establishing a secure environment. Numerous real-life examples and a single case study that is developed throughout the book highlight a case-oriented approach. Complete instructor materials (PowerPoint slides, course outline, project assignments) to support an academic or industrial course are provided. Additional details can be found at the author website (www.amjadumar.com)

An Introduction to Digital Video

D Is for Digital

3-D Revolution

Fifty Years of Europe, 1870-1919

Technology has changed what it means for communities to "be together." Digital tools are now part of most communities' habitats. This book develops a new literacy and language to describe the practice of stewarding technology for communities. Whether you want to ground your technology stewardship in theory and deepen your practice, whether you are a community leader or sponsor who wants to understand how communities and technology intersect, or whether you just want practical advice, this is the book for you.

Building an Aquaponics System

In this latest book in the critically-acclaimed [digital] series from New Riders you'll learn all of the techniques and skills that will take you from beginner to visual effects (VFX) professional in just one book. Seasoned visual effects producer Jon Gress has refined the teaching of the skills and techniques presented in this book for over a decade to distill them down to the most effective methodology, delivered in a way that's both fun and easy to understand while being state-of-the-art for industry professionals. You'll start with a solid understanding of the basics of visual effects and compositing, the fundamentals of bluescreen and greenscreen keying, 3D texturing, cloning, wire & rig removal, rotoscoping, 2D and 3D motion tracking, and matchmoving. And then experiment with a wide range of 2D, 2.5D & 3D visual effects, including 3D CGI, crowd replication, face replacements, faking shadows, reflections and Z depth, atmospheric, smoke, cloud & heat FX, sky replacements, day-for-night and digital 3D HUD FX. Building on this strong foundation of compositing and visual effects, you'll be prepared for the advanced section of the book which teach skills, such as 2D, 2.5D & 3D digital matte painting and projections, film colorization, particle systems, fluid and rigid body dynamics, full digital environments, digital destruction, advanced lighting and rendering techniques, stereoscopic 3D, 2D to 3D conversions, and expert 3D and Photoshop extraction and modeling techniques that can only be described as magic! Throughout the lessons, you'll glean insider advice on cutting edge methods that even experienced professionals will find amazing. You'll learn everything you need to know to begin working in the world of visual effects as an industry professional. • All the info you need to go from beginner to professional in one book • Easily accessible teaching style from an instructor who has helped launch the careers of some of the best-known Hollywood visual effects specialists • Includes companion graphics files and videos to follow along with the lessons

Spiderstalk

The Preparation of Programs for an Electronic Digital Computer

Eight Days

What does one learn at age seven that is powerful enough to make one change their whole view of life? The times were simple back then, at least that's how it looks on the surface. Going into the mind of a seven year old, life is far more complicated. By July of 1954, the Korean War had come to an end. The Rosenbergs had just been executed and the McCarthy hearings were heating up. None of this matters to a seven year old boy who suddenly finds himself living in a small town in Nebraska while his family breaks apart. Before long, he has a friend but, with lots of freedom and time to kill, anything can happen.

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