

## Executed Extracted Trilogy Book 2

Developed from celebrated Harvard statistics lectures, Introduction to Probability provides essential language and tools for understanding statistics, randomness, and uncertainty. The book explores a wide variety of applications and examples, ranging from coincidences and paradoxes to Google PageRank and Markov chain Monte Carlo (MCMC). Additional

Soil is an irreplaceable resource that sustains life on the planet, challenged by food and energy demands of an increasing population. Therefore, soil contamination constitutes a critical issue to be addressed if we are to secure the life quality of present and future generations. Integrated efforts from researchers and policy makers are required to develop sound risk assessment procedures, remediation strategies and sustainable soil management policies. Environmental Risk Assessment of Soil Contamination provides a wide depiction of current research in soil contamination and risk assessment, encompassing reviews and case studies on soil pollution by heavy metals and organic pollutants. The book introduces several innovative approaches for soil remediation and risk assessment, including advances in phytoremediation and implementation of metabolomics in soil sciences.

This book offers a highly accessible introduction to natural language processing, the field that supports a variety of language technologies, from predictive text and email filtering to automatic summarization and translation. With it, you'll learn how to write Python programs that work with large collections of unstructured text. You'll access richly annotated datasets using a comprehensive range of linguistic data structures, and you'll understand the main algorithms for analyzing the content and structure of written communication. Packed with examples and exercises, Natural Language Processing with Python will help you: Extract information from unstructured text, either to guess the topic or identify "named entities" Analyze linguistic structure in text, including parsing and semantic analysis Access popular linguistic databases, including WordNet and treebanks Integrate techniques drawn from fields as diverse as linguistics and artificial intelligence This book will help you gain practical skills in natural language processing using the Python programming language and the Natural Language Toolkit (NLTK) open source library. If you're interested in developing web applications, analyzing multilingual news sources, or documenting endangered languages -- or if you're simply curious to have a programmer's perspective on how human language works -- you'll find Natural Language Processing with Python both fascinating and immensely useful.

When fifteen-year-old Riley Crane finds out her best friend Olivia is being abused at home, she knows just who to turn to... Her mother Claire, writer and spokesperson for President Gray's Parental Morality Law. Under this law, Task Force Officers remove children from their homes if their parents do not meet certain guidelines, taking them to government-run boarding schools. Once they

arrive, supervisors rehabilitate them, turning them into productive members of society. Or at least that was how it was supposed to work... Now, after a government official threatens to make Riley the law's latest victim, Riley and Claire must rely on Cain Foley, a gifted killer with a tongue as sharp as the knives he carries, to get them out of America alive. Though he slices through men's necks as if they are warm butter, Riley can't seem to keep her cheeks from flushing every time he speaks. But when they stumble upon a deserted boarding school, Riley sees that escaping the country is only part of their problem. Together, Riley and Cain figure out that a killer can save a life, and a mother can damn a nation.

Our world is being revolutionized by data-driven methods: access to large amounts of data has generated new insights and opened exciting new opportunities in commerce, science, and computing applications. Processing the enormous quantities of data necessary for these advances requires large clusters, making distributed computing paradigms more crucial than ever. MapReduce is a programming model for expressing distributed computations on massive datasets and an execution framework for large-scale data processing on clusters of commodity servers. The programming model provides an easy-to-understand abstraction for designing scalable algorithms, while the execution framework transparently handles many system-level details, ranging from scheduling to synchronization to fault tolerance. This book focuses on MapReduce algorithm design, with an emphasis on text processing algorithms common in natural language processing, information retrieval, and machine learning. We introduce the notion of MapReduce design patterns, which represent general reusable solutions to commonly occurring problems across a variety of problem domains. This book not only intends to help the reader "think in MapReduce", but also discusses limitations of the programming model as well. This volume is a printed version of a work that appears in the Synthesis Digital Library of Engineering and Computer Science. Synthesis Lectures provide concise, original presentations of important research and development topics, published quickly, in digital and print formats. For more information visit [www.morganclaypool.com](http://www.morganclaypool.com)

A beautifully designed edition of one of the most beloved science fiction novels of all time... First published in 1895, *The Time Machine* won author H.G. Wells immediate recognition and has been regarded ever since as one of the great masterpieces in the literature of science fiction. It popularized the concept of time travel and introduced the concept of a "time machine" device that could travel forwards and backwards through the years. It is the story of one man's astonishing journey beyond the conventional limits of the imagination. One of the most renowned works of science fiction, *The Time Machine* reflects on the adventures of The Time Traveller - a man who constructs a machine which allows him to explore what the future has to offer. When he courageously steps out of his machine for the first time, he finds himself in the year 802,701—and

everything has changed. In this unfamiliar utopian age, creatures seem to dwell together in perfect harmony. Thinking he can study these marvelous beings and unearth their secret then return to his own time, he discovers that his only avenue of escape, his invention, has been stolen. Wells is generally credited with the popularization of the concept of time travel by using a vehicle that allows an operator to travel purposefully and selectively. The term "time machine", which was coined by Wells, is now universally used to refer to such a vehicle. The book has been adapted for a number of films and television shows, as well as inspiring other science fiction writers.

As the third Trial draws to a close, Thomas and some of his cohorts manage to escape from WICKED, their memories having been restored, only to face new dangers as WICKED claims to be trying to protect the human race from the deadly FLARE virus.

George Orwell's celebrated novella, *Animal Farm*, is a biting, allegorical, political satire on totalitarianism in general and Stalinism in particular. One of the most famous works in modern English literature, it is a telling comment on Soviet Russia under Stalin's brutal dictatorship based on a cult of personality which was enforced through a reign of terror. The book tells a seemingly simple story of farm animals who rebel against their master in the hope of stopping their exploitation at the hand of humans and creating a society where animals would be equal, free and happy. Ultimately, however, the rebellion is betrayed and the farm ends up in a state as bad as it was before. The novel thus demonstrates how easily good intentions can be subverted into tyranny. Orwell has himself said that it was the first book in which he had tried, with full consciousness of what he was doing, 'to fuse political purpose and artistic purpose into one whole.' The book was first published in England in 1945, and has since then remained a favourite with readers all over the world, and has consistently been included in all prestigious bestseller lists for the past many years.

This User's Guide is intended to support the design, implementation, analysis, interpretation, and quality evaluation of registries created to increase understanding of patient outcomes. For the purposes of this guide, a patient registry is an organized system that uses observational study methods to collect uniform data (clinical and other) to evaluate specified outcomes for a population defined by a particular disease, condition, or exposure, and that serves one or more predetermined scientific, clinical, or policy purposes. A registry database is a file (or files) derived from the registry.

Although registries can serve many purposes, this guide focuses on registries created for one or more of the following purposes: to describe the natural history of disease, to determine clinical effectiveness or cost-effectiveness of health care products and services, to measure or monitor safety and harm, and/or to measure quality of care. Registries are classified according to how their populations are defined. For example, product registries include patients who have been exposed to biopharmaceutical products or medical devices. Health services registries consist of patients who have had a common procedure, clinical encounter, or hospitalization. Disease or condition registries are defined by patients having the same diagnosis, such as cystic fibrosis or

heart failure. The User's Guide was created by researchers affiliated with AHRQ's Effective Health Care Program, particularly those who participated in AHRQ's DEcIDE (Developing Evidence to Inform Decisions About Effectiveness) program. Chapters were subject to multiple internal and external independent reviews.

My husband. My Tormentor. The most notorious man in the city offers me a job. Act as his dead wife. Adrian Volkov isn't the type of person who takes no for an answer. He commands with an iron fist and all his orders are met. When he approaches me with the offer, I have two options. Go to prison or put myself under his wrath. I choose to have a roof over my head. What's so hard about acting, right? Wrong. The moment I step into his wife's shoes, everything spirals out of control. My only way of survival is through Adrian. Or is it? This book is part of a trilogy and is not stand-alone.

Read the #1 New York Times best-selling series before it continues in *A Map of Days*. Bonus features • Q&A with author Ransom Riggs • Eight pages of color stills from the film • Sneak preview of *Hollow City*, the next novel in the series

*A mysterious island. An abandoned orphanage. A strange collection of very curious photographs. It all waits to be discovered in *Miss Peregrine's Home for Peculiar Children*, an unforgettable novel that mixes fiction and photography in a thrilling reading experience. As our story opens, a horrific family tragedy sets sixteen-year-old Jacob journeying to a remote island off the coast of Wales, where he discovers the crumbling ruins of *Miss Peregrine's Home for Peculiar Children*. As Jacob explores its abandoned bedrooms and hallways, it becomes clear that the children were more than just peculiar. They may have been dangerous. They may have been quarantined on a deserted island for good reason. And somehow—impossible though it seems—they may still be alive. A spine-tingling fantasy illustrated with haunting vintage photography, *Miss Peregrine's Home for Peculiar Children* will delight adults, teens, and anyone who relishes an adventure in the shadows. “A tense, moving, and wondrously strange first novel. The photographs and text work together brilliantly to create an unforgettable story.”—John Green, New York Times best-selling author of *The Fault in Our Stars* “With its X-Men: First Class-meets-time-travel story line, David Lynchian imagery, and rich, eerie detail, it's no wonder *Miss Peregrine's Home for Peculiar Children* has been snapped up by Twentieth Century Fox. B+”—Entertainment Weekly “‘Peculiar’ doesn't even begin to cover it. Riggs' chilling, wondrous novel is already headed to the movies.”—People “You'll love it if you want a good thriller for the summer. It's a mystery, and you'll race to solve it before Jacob figures it out for himself.”—Seventeen*

The end of the world has been avoided--for now. With Miri and her team of extracted heroes still on the run, Mother, the disgraced former head of the British Secret Service, has other ideas... While Mother retreats to her bunker to plot her next move, Miri, Ben, Safa and Harry travel far into the future to ensure that they have prevented the apocalypse. But what they find just doesn't make sense. London in 2111 is on the brink of annihilation. What's more, the timelines have been twisted. Folded in on each other. It's hard to keep track of who is where. Or, more accurately, who is when. The clock is ticking for them all. With nothing left to lose but life itself, our heroes must stop Mother--or die trying.

An infection spreads across Europe. The Undead Day One is a terrifying account of one man desperately struggling to survive this harrowing event.

Being shunned by society gives Charlotte Holmes the freedom to put her powers of

deduction to good use. As Sherlock Holmes, aided by the capable Mrs. Watson, she's had great success helping with all manner of inquiries, but she's not prepared for this new client. Lady Ingram wants Sherlock to find her first love, who failed to show up at their annual rendezvous. Matters of loyalty and discretion aside, the case becomes even more personal for Charlotte as the missing man is none other than Myron Finch, her illegitimate half-brother...

“An intense snapshot of the chain reaction caused by pulling a trigger.” —Booklist (starred review) “Astonishing.” —Kirkus Reviews (starred review) “A tour de force.” —Publishers Weekly (starred review) A Newbery Honor Book A Coretta Scott King Honor Book A Printz Honor Book A Time Best YA Book of All Time (2021) A Los Angeles Times Book Prize Winner for Young Adult Literature Longlisted for the National Book Award for Young People’s Literature Winner of the Walter Dean Myers Award An Edgar Award Winner for Best Young Adult Fiction Parents’ Choice Gold Award Winner An Entertainment Weekly Best YA Book of 2017 A Vulture Best YA Book of 2017 A BuzzFeed Best YA Book of 2017 An ode to Put the Damn Guns Down, this is New York Times bestselling author Jason Reynolds’s electrifying novel that takes place in sixty potent seconds—the time it takes a kid to decide whether or not he’s going to murder the guy who killed his brother. A cannon. A strap. A piece. A biscuit. A burner. A heater. A chopper. A gat. A hammer A tool for RULE Or, you can call it a gun. That’s what fifteen-year-old Will has shoved in the back waistband of his jeans. See, his brother Shawn was just murdered. And Will knows the rules. No crying. No snitching. Revenge. That’s where Will’s now heading, with that gun shoved in the back waistband of his jeans, the gun that was his brother’s gun. He gets on the elevator, seventh floor, stoked. He knows who he’s after. Or does he? As the elevator stops on the sixth floor, on comes Buck. Buck, Will finds out, is who gave Shawn the gun before Will took the gun. Buck tells Will to check that the gun is even loaded. And that’s when Will sees that one bullet is missing. And the only one who could have fired Shawn’s gun was Shawn. Huh. Will didn’t know that Shawn had ever actually USED his gun. Bigger huh. BUCK IS DEAD. But Buck’s in the elevator? Just as Will’s trying to think this through, the door to the next floor opens. A teenage girl gets on, waves away the smoke from Dead Buck’s cigarette. Will doesn’t know her, but she knew him. Knew. When they were eight. And stray bullets had cut through the playground, and Will had tried to cover her, but she was hit anyway, and so what she wants to know, on that fifth floor elevator stop, is, what if Will, Will with the gun shoved in the back waistband of his jeans, MISSES. And so it goes, the whole long way down, as the elevator stops on each floor, and at each stop someone connected to his brother gets on to give Will a piece to a bigger story than the one he thinks he knows. A story that might never know an END...if Will gets off that elevator. Told in short, fierce staccato narrative verse, Long Way Down is a fast and furious, dazzlingly brilliant look at teenage gun violence, as could only be told by Jason Reynolds.

Authored by two of the leading authorities in the field, this guide offers readers the knowledge and skills needed to achieve proficiency with embedded software.

"Welcome to extraction testing" Clementine has spent her whole life preparing for her 16th birthday when she'll be tested for Extraction, in the hopes of being sent from Kiel's toxic Surface to the much safer Core, where people live without fear or starvation. When she proves promising enough to be "extracted," she must leave without Logan,

the boy she loves. Torn apart from her only sense of family, Clem promises to come back and save him from brutal Surface life. What she finds initially at the Core is a utopia compared to the Surface—it's free of hard labor, gun-wielding officials, and the moon's lethal acid—but life is anything but safe, and Clementine learns that the planet's leaders are planning to exterminate Surface dwellers—and that means Logan, too. Trapped by the steel walls of the underground and the lies that keep her safe, Clementine must find a way to escape and rescue Logan and the rest of the planet. But the planet's leaders don't want her running—they want her subdued. With great writing, fluid dialogue, and a cast of unforgettable characters, Stephanie Diaz's *Extraction* is a page-turning, gripping read—sure to entertain lovers of *Hunger Games* and *Ender's Game*—and leave them breathless for more.

From lambda expressions and JavaFX 8 to new support for network programming and mobile development, Java 8 brings a wealth of changes. This cookbook helps you get up to speed right away with hundreds of hands-on recipes across a broad range of Java topics. You'll learn useful techniques for everything from debugging and data structures to GUI development and functional programming. Each recipe includes self-contained code solutions that you can freely use, along with a discussion of how and why they work. If you are familiar with Java basics, this cookbook will bolster your knowledge of the language in general and Java 8's main APIs in particular. Recipes include: Methods for compiling, running, and debugging Manipulating, comparing, and rearranging text Regular expressions for string- and pattern-matching Handling numbers, dates, and times Structuring data with collections, arrays, and other types Object-oriented and functional programming techniques Directory and filesystem operations Working with graphics, audio, and video GUI development, including JavaFX and handlers Network programming on both client and server Database access, using JPA, Hibernate, and JDBC Processing JSON and XML for data storage Multithreading and concurrency

Only from New York Times bestselling author Deanna Raybourn, go back to where it all began with the original *Lady Julia Grey* historical mystery series. "Let the wicked be ashamed, and let them be silent in the grave." These ominous words are the last threat that Sir Edward Grey receives from his killer. Before he can show them to Nicholas Brisbane, the private inquiry agent he has retained for his protection, he collapses and dies at his London home, in the presence of his wife, Julia, and a roomful of dinner guests. Prepared to accept that Edward's death was due to a long-standing physical infirmity, Julia is outraged when Brisbane visits and suggests that her husband was murdered. It is a reaction she comes to regret when she discovers damning evidence for herself, and realizes the truth. Determined to bring the murderer to justice, Julia engages the enigmatic Brisbane to help her investigate Edward's demise. Dismissing his warnings that the investigation will be difficult, if not impossible, Julia presses forward, following a trail of clues that lead her to even more unpleasant truths, and ever closer to a killer who waits expectantly for her arrival. Previously published. Don't miss the complete *Lady Julia Grey* mystery series by Deanna Raybourn! Book # 1: *Silent in the Grave* Book # 2: *Silent in the Sanctuary* Book # 3: *Silent on the Moor* Book # 3.5: *Midsummer Night* (novella) Book # 4: *Dark Road to Darjeeling* Book # 5: *The Dark Enquiry* Book # 5.5: *Silent Night* (novella) Book # 5.6: *Twelfth Night* (novella) Book # 5.7: *Bonfire Night* (novella)

Riders. A new fantasy adventure from New York Times and USA Today bestselling author Veronica Rossi. For eighteen-year-old Gideon Blake, nothing but death can keep him from achieving his goal of becoming a U.S. Army Ranger. As it turns out, it does. Recovering from the accident that most definitely killed him, Gideon finds himself with strange new powers and a bizarre cuff he can't remove. His death has brought to life his real destiny. He has become War, one of the legendary four horsemen of the apocalypse. Over the coming weeks, he and the other horsemen--Conquest, Famine, and Death--are brought together by a beautiful but frustratingly secretive girl to help save humanity from an ancient evil on the emergence. They fail. Now--bound, bloodied, and drugged--Gideon is interrogated by the authorities about his role in a battle that has become an international incident. If he stands any chance of saving his friends and the girl he's fallen for--not to mention all of humankind--he needs to convince the skeptical government officials the world is in imminent danger. But will anyone believe him? At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied.

Describes the features and functions of Apache Hive, the data infrastructure for Hadoop.

"It took me a long time and most of the world to learn what I know about love and fate and the choices we make, but the heart of it came to me in an instant, while I was chained to a wall and being tortured." So begins this epic, mesmerizing first novel by Gregory David Roberts, set in the underworld of contemporary Bombay. Shantaram is narrated by Lin, an escaped convict with a false passport who flees maximum security prison in Australia for the teeming streets of a city where he can disappear.

Accompanied by his guide and faithful friend, Prabaker, the two enter Bombay's hidden society of beggars and gangsters, prostitutes and holy men, soldiers and actors, and Indians and exiles from other countries, who seek in this remarkable place what they cannot find elsewhere. As a hunted man without a home, family, or identity, Lin searches for love and meaning while running a clinic in one of the city's poorest slums, and serving his apprenticeship in the dark arts of the Bombay mafia. The search leads him to war, prison torture, murder, and a series of enigmatic and bloody betrayals. The keys to unlock the mysteries and intrigues that bind Lin are held by two people. The first is Khader Khan: mafia godfather, criminal-philosopher-saint, and mentor to Lin in the underworld of the Golden City. The second is Karla: elusive, dangerous, and beautiful, whose passions are driven by secrets that torment her and yet give her a terrible power. Burning slums and five-star hotels, romantic love and prison agonies, criminal wars and Bollywood films, spiritual gurus and mujaheddin guerrillas---this huge novel has the world of human experience in its reach, and a passionate love for India at its heart. Based on the life of the author, it is by any measure the debut of an extraordinary voice in literature.

From the Hugo Award-winning author of *Between Two Thorns* comes the first novel in a captivating science fiction series where a secret withheld to protect humanity's future may lead to its undoing... "Cathartic and transcendent."—The New York Times "An exceptionally engaging novel that explores the complex relationship between mythology and science."—The Washington Post Renata Ghali believed in Lee Suh-Mi's vision of a world far beyond Earth, calling to humanity. A planet promising to reveal the truth about our place in the cosmos, untainted by overpopulation, pollution, and war. Ren believed

in that vision enough to give up everything to follow Suh-Mi into the unknown. More than twenty-two years have passed since Ren and the rest of the faithful braved the starry abyss and established a colony at the base of an enigmatic alien structure where Suh-Mi has since resided, alone. All that time, Ren has worked hard as the colony's 3-D printer engineer, creating the tools necessary for human survival in an alien environment, and harboring a devastating secret. Ren continues to perpetuate the lie forming the foundation of the colony for the good of her fellow colonists, despite the personal cost. Then a stranger appears, far too young to have been part of the first planetfall, a man who bears a remarkable resemblance to Suh-Mi. The truth Ren has concealed since planetfall can no longer be hidden. And its revelation might tear the colony apart...

In the sequel to Kushiell's Dart, PhFdre n= Delaunay, now ruler of her people, faces new challenges, including court intrigues, factions out to remove her from her throne, the return of the ruthless Melisande Sharizai, and a horrific conspiracy that could destroy all humankind. Reprint.

In a world where one percent of the population is born with special abilities, a terrorist network led by these "brilliants" devastates three cities, and presidential adviser Nick Cooper must stop the oncoming war between brilliants and humans.

Class-tested and coherent, this textbook teaches classical and web information retrieval, including web search and the related areas of text classification and text clustering from basic concepts. It gives an up-to-date treatment of all aspects of the design and implementation of systems for gathering, indexing, and searching documents; methods for evaluating systems; and an introduction to the use of machine learning methods on text collections. All the important ideas are explained using examples and figures, making it perfect for introductory courses in information retrieval for advanced undergraduates and graduate students in computer science. Based on feedback from extensive classroom experience, the book has been carefully structured in order to make teaching more natural and effective. Slides and additional exercises (with solutions for lecturers) are also available through the book's supporting website to help course instructors prepare their lectures.

Percy Jackson is a good kid, but he can't seem to focus on his schoolwork or control his temper. And lately, being away at boarding school is only getting worse-Percy could have sworn his pre-algebra teacher turned into a monster and tried to kill him.

Get complete instructions for manipulating, processing, cleaning, and crunching datasets in Python. Updated for Python 3.6, the second edition of this hands-on guide is packed with practical case studies that show you how to solve a broad set of data analysis problems effectively. You'll learn the latest versions of pandas, NumPy, IPython, and Jupyter in the process. Written by Wes McKinney, the creator of the Python pandas project, this book is a practical, modern introduction to data science tools in Python. It's ideal for analysts new to Python and for Python programmers new to data science and scientific computing. Data files and related material are available on GitHub. Use the IPython shell and Jupyter notebook for exploratory computing Learn basic and advanced features in NumPy (Numerical Python) Get started with data analysis tools in the pandas library Use flexible tools to load, clean, transform, merge, and reshape data Create informative visualizations with matplotlib Apply the pandas groupby facility to slice, dice, and summarize datasets Analyze and manipulate regular and irregular time series data Learn how to solve real-world data analysis problems with thorough, detailed examples

ExecutedExtracted TrilogyExtracted47NorthExtinctExtracted Trilogy

After eighteen-year-old Gu Miyoung, a nine-tailed fox surviving in modern-day Seoul by eating the souls of evil men, kills a murderous goblin to save Jihoon, she is forced to choose between

her immortal life and his. Includes glossary.

Learn how to program by diving into the R language, and then use your newfound skills to solve practical data science problems. With this book, you'll learn how to load data, assemble and disassemble data objects, navigate R's environment system, write your own functions, and use all of R's programming tools. RStudio Master Instructor Garrett Golemund not only teaches you how to program, but also shows you how to get more from R than just visualizing and modeling data. You'll gain valuable programming skills and support your work as a data scientist at the same time. Work hands-on with three practical data analysis projects based on casino games Store, retrieve, and change data values in your computer's memory Write programs and simulations that outperform those written by typical R users Use R programming tools such as if else statements, for loops, and S3 classes Learn how to write lightning-fast vectorized R code Take advantage of R's package system and debugging tools Practice and apply R programming concepts as you learn them

The classic postapocalyptic thriller with "all the reality of a vividly realized nightmare" (The Times, London). Triffids are odd, interesting little plants that grow in everyone's garden. Triffids are no more than mere curiosities—until an event occurs that alters human life forever. What seems to be a spectacular meteor shower turns into a bizarre, green inferno that blinds everyone and renders humankind helpless. What follows is even stranger: spores from the inferno cause the triffids to suddenly take on a life of their own. They become large, crawling vegetation, with the ability to uproot and roam about the country, attacking humans and inflicting pain and agony. William Masen somehow managed to escape being blinded in the inferno, and now after leaving the hospital, he is one of the few survivors who can see. And he may be the only one who can save his species from chaos and eventual extinction . . . With more than a million copies sold, *The Day of the Triffids* is a landmark of speculative fiction, and "an outstanding and entertaining novel" (Library Journal). "A thoroughly English apocalypse, it rivals H. G. Wells in conveying how the everyday invaded by the alien would feel. No wonder Stephen King admires Wyndham so much." —Ramsey Campbell "One of my all-time favorite novels. It's absolutely convincing, full of little telling details, and that sweet, warm sensation of horror and mystery." —Joe R. Lansdale

"We finally have the definitive treatise on PyTorch! It covers the basics and abstractions in great detail. I hope this book becomes your extended reference document." —Soumith Chintala, co-creator of PyTorch Key Features Written by PyTorch's creator and key contributors Develop deep learning models in a familiar Pythonic way Use PyTorch to build an image classifier for cancer detection Diagnose problems with your neural network and improve training with data augmentation Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About The Book Every other day we hear about new ways to put deep learning to good use: improved medical imaging, accurate credit card fraud detection, long range weather forecasting, and more. PyTorch puts these superpowers in your hands. Instantly familiar to anyone who knows Python data tools like NumPy and Scikit-learn, PyTorch simplifies deep learning without sacrificing advanced features. It's great for building quick models, and it scales smoothly from laptop to enterprise. Deep Learning with PyTorch teaches you to create deep learning and neural network systems with PyTorch. This practical book gets you to work right away building a tumor image classifier from scratch. After covering the basics, you'll learn best practices for the entire deep learning pipeline, tackling advanced projects as your

PyTorch skills become more sophisticated. All code samples are easy to explore in downloadable Jupyter notebooks. What You Will Learn Understanding deep learning data structures such as tensors and neural networks Best practices for the PyTorch Tensor API, loading data in Python, and visualizing results Implementing modules and loss functions Utilizing pretrained models from PyTorch Hub Methods for training networks with limited inputs Sifting through unreliable results to diagnose and fix problems in your neural network Improve your results with augmented data, better model architecture, and fine tuning This Book Is Written For For Python programmers with an interest in machine learning. No experience with PyTorch or other deep learning frameworks is required. About The Authors Eli Stevens has worked in Silicon Valley for the past 15 years as a software engineer, and the past 7 years as Chief Technical Officer of a startup making medical device software. Luca Antiga is co-founder and CEO of an AI engineering company located in Bergamo, Italy, and a regular contributor to PyTorch. Thomas Viehmann is a Machine Learning and PyTorch speciality trainer and consultant based in Munich, Germany and a PyTorch core developer. Table of Contents PART 1 - CORE PYTORCH 1 Introducing deep learning and the PyTorch Library 2 Pretrained networks 3 It starts with a tensor 4 Real-world data representation using tensors 5 The mechanics of learning 6 Using a neural network to fit the data 7 Telling birds from airplanes: Learning from images 8 Using convolutions to generalize PART 2 - LEARNING FROM IMAGES IN THE REAL WORLD: EARLY DETECTION OF LUNG CANCER 9 Using PyTorch to fight cancer 10 Combining data sources into a unified dataset 11 Training a classification model to detect suspected tumors 12 Improving training with metrics and augmentation 13 Using segmentation to find suspected nodules 14 End-to-end nodule analysis, and where to go next PART 3 - DEPLOYMENT 15 Deploying to production

The adventures of sixteen-year-old David Balfour, an orphan, who after being kidnapped by his villainous uncle manages to escape and becomes involved in the struggle of the Scottish highlanders against English rule.

An odorless baby found orphaned in a Paris gutter in 1738 grows to become a monster obsessed with his perfect sense of smell and a desire to capture, by any means, the ultimate scent that will make him human. Reader's Guide available. Reprint. 20,000 first printing.

“An immensely entertaining novel” (Tor.com) from the author of The Thousand Names... The King of the Vordan is on his deathbed. Soon his daughter, Raesinia will be the first Queen Regnant in centuries—and a target for those who seek to control her. The most dangerous is Duke Orlanko, Minister of Information, and master of the secret police. He is the most feared man in the kingdom, and he knows an arcane secret that puts Raesinia completely at his mercy. But Raesinia has found unlikely allies in the returning war hero Janus bet Vhalnich, and his loyal deputies, Captain Marcus d'Ivoire and Lieutenant Winter Ihernglass. As Marcus and Winter struggle to find their places in the home they

never thought they would see again, they help Janus and Raesinia set in motion events that could shatter Orlando's powers, but perhaps at the price of throwing the nation into chaos. But with the people suffering under the Duke's tyranny, they intend to protect the kingdom with every power they can command, earthly or otherwise.

When you use Hibernate in your projects, you quickly recognize that you need to do more than just add @Entity annotations to your domain model classes. Real-world applications often require advanced mappings, complex queries, custom data types and caching. Hibernate can do all of that. You just have to know which annotations and APIs you need to use. Hibernate Tips - More than 70 solutions to common Hibernate problems shows you how to efficiently implement your persistence layer with Hibernate's basic and advanced features. Each Hibernate Tip consists of one or more code samples and an easy to follow step-by-step explanation. You can also download an example project with executable test cases for each Hibernate Tip. Throughout this book, you will get more than 70 ready-to-use solutions that show you how to: - Define standard mappings for basic attributes and entity associations. - Implement your own attribute mappings and support custom data types. - Use Hibernate's Java 8 support and other proprietary features. - Read data from the database with JPQL, Criteria API, and native SQL queries. - Call stored procedures and database functions. This book is for developers who are already working with Hibernate and who are looking for solutions for their current development tasks. It's not a book for beginners who are looking for extensive descriptions of Hibernate's general concepts. The tips are designed as self-contained recipes which provide a specific solution and can be accessed when needed. Most of them contain links to related tips which you can follow if you want to dive deeper into a topic or need a slightly different solution. There is no need to read the tips in a specific order. Feel free to read the book from cover to cover or to just pick the tips that help you in your current project.

The rag-tag crew of the Capricious hunts down rogue AI, ancient colony ships, and the biggest treasure in the universe in this pulse-pounding space adventure for fans of Firefly and The Expanse. The crew of the Capricious seems to leave a trail of devastation wherever they go. But with powerful enemies in pursuit and family and friends under attack planetside, there's no time to worry about all that. Ensnared by the legend of Origin, humanity's birthplace, and a long-dead form of magic, the Capricious takes off on a journey to find the first colony ship . . . and power that could bring down gods. Read the incredible space-fantasy series that V. E. Schwab calls "A total blast!" The SalvagersA Big Ship at the Edge of the UniverseA Bad Deal for the Whole GalaxyThe Worst of All Possible Worlds

[Copyright: 4a10eceeceeb5b713949ea51cf3f8c3a](#)