The R Lic Book I

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand.We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

bookdown: Authoring Books and Technical Documents with R Markdown presents a much easier way to write books and technical publications than traditional tools such as LaTeX and Word. The bookdown package inherits the simplicity of syntax and flexibility for data analysis from R Markdown, and extends R Markdown for technical writing, so that you can make better use of document elements such as figures, tables, equations, theorems, citations, and references. Similar to LaTeX, you can number and cross-reference these elements with bookdown. Your document can even include live examples so readers can interact with them while reading the book. The book can be rendered to multiple output formats, including LaTeX/PDF, HTML, EPUB, and Word, thus making it easy to put your documents online. The style and theme of these output formats can be customized. We used books and R primarily for examples in this book, but bookdown is not only for books or R. Most features introduced in this book also apply to other types of publications: journal papers, reports, dissertations, course handouts, study notes, and even novels. You do not have to use R, either. Other choices of computing languages include Python, C, C++, SQL, Bash, Stan, JavaScript, and so on, although R is best supported. You can also leave out computing, for example, to write a fiction. This book itself is an example of publishing with bookdown and R Markdown, and its source is fully available on GitHub.

In sheer numbers, no form of government control comes close to the police stop. Each year, twelve percent of drivers in the United States are stopped by the police, and the figure is almost double among racial minorities. Police stops are among the most recognizable and frequently criticized incidences of racial profiling, but, while numerous studies have shown that minorities are pulled over at higher rates, none have examined how police stops have come to be both encouraged and institutionalized. Pulled Over deftly traces the strange history of the investigatory police stop, from its discredited beginning as "aggressive patrolling" to its current status as accepted institutional practice. Drawing on the richest study of police stops to date, the authors show that who is stopped and how they are treated convey powerful messages about citizenship and racial disparity in the United States. For African Americans, for instance, the experience of investigatory stops erodes the perceived legitimacy of police stops and of the police generally, leading to decreased trust in the police and less willingness to solicit police assistance or to self-censor in terms of clothing or where they drive. This holds true even when police are courteous and respectful throughout the encounters and follow seemingly colorblind institutional protocols. With a growing push in recent years to use local police in immigration efforts, Hispanics stand poised to share African Americans' long experience of investigative stops. In a country that celebrates democracy and racial equality, investigatory stops have a profound and deleterious effect on African American and other minority communities that merits serious reconsideration. Pulled Over offers practical recommendations on how reforms can protect the rights of citizens and still effectively combat crime. "This book introduces you to R, RStudio, and the tidyverse, a collection of R packages designed to work together to make data science fast, fluent, and fun. Suitable for readers with no previous programming experience"--

An Essential Reference for Intermediate and Advanced R Programmers Advanced R presents useful tools and techniques for attacking many types of R programming problems, helping you avoid mistakes and dead ends. With more than ten years of experience programming in R, the author illustrates the elegance, beauty, and flexibility at the heart of R. The book develops the necessary skills to produce quality code that can be used in a variety of circumstances. You will learn: The fundamentals of R, including standard data types and functions Functional programming as a useful framework for solving wide classes of problems The positives and negatives of metaprogramming How to write fast, memory-efficient code This book not only helps current R users become R programmers but also shows existing programmers what's special about R. Intermediate R programmers can dive deeper into R and learn new strategies for solving diverse problems while programmers from other languages can learn the details of R and understand why R works the way it does.

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 Grolemund 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

Advanced R helps you understand how R works at a fundamental level. It is designed for R programmers who want to deepen their understanding of the language, and programmers experienced in other languages who want to understand what makes R different and special. This book will teach you the foundations of R; three fundamental programming paradigms (functional, object-oriented, and metaprogramming); and powerful techniques for debugging and optimising your code. By reading this book, you will learn: The difference between an object and its name, and why the distinction is important The important vector data structures, how they fit together, and how you can pull them apart using subsetting The fine details of functions and environments The condition system, which powers messages, warnings, and errors The powerful functional programming paradigm, which can replace many for loops The three most important OO systems: S3, S4, and R6 The tidy eval toolkit for metaprogramming, which allows you to manipulate code and control evaluation Effective debugging techniques that you can deploy, regardless of how your code is run How to find and remove performance bottlenecks The second edition is a comprehensive update: New foundational chapters: "Names and values," "Control flow," and "Conditions" comprehensive coverage of object oriented programming with chapters on S3, S4, R6, and how to choose between them Much deeper coverage of

metaprogramming, including the new tidy evaluation framework use of new package like rlang (http://rlang.r-lib.org), which provides a clean interface to low-level operations, and purr (http://purrr.tidyverse.org/) for functional programming Use of color in code chunks and figures Hadley Wickham is Chief Scientist at RStudio, an Adjunct Professor at Stanford University and the University of Auckland, and a member of the R Foundation. He is the lead developer of the tidyverse, a collection of R packages, including ggplot2 and dplyr, designed to support data science. He is also the author of R for Data Science (with Garrett Grolemund), R Packages, and ggplot2: Elegant Graphics for Data Analysis.

Matt Johnson had a life he was happy enough with. Could he learn to be happy with his death as well? This zombie story is written from his point of view-- from normal, every-day security guard, to brain-eating, mindless zombie.

R Markdown: The Definitive Guide is the first official book authored by the core R Markdown developers that provides a comprehensive and accurate reference to the R Markdown ecosystem. With R Markdown, you can easily create reproducible data analysis reports, presentations, dashboards, interactive applications, books, dissertations, websites, and journal articles, while enjoying the simplicity of Markdown and the great power of R and other languages. In this book, you will learn Basics: Syntax of Markdown and R code chunks, how to generate figures and tables, and how to use other computing languages Built-in output formats of R Markdown: PDF/HTML/Word/RTF/Markdown documents and ioslides/Slidy/Beamer/PowerPoint presentations Extensions and applications: Dashboards, Tufte handouts, xaringan/reveal.js presentations, websites, books, journal articles, and interactive tutorials Advanced topics: Parameterized reports, HTML widgets, document templates, custom output formats, and Shiny documents. Yihui Xie is a software engineer at RStudio. He has authored and co-authored several R packages, including knitr, rmarkdown, bookdown, blogdown, shiny, xaringan, and animation. He has published three other books, Dynamic Documents with R and knitr, bookdown: Authoring Books and Technical Documents with R Markdown, and blogdown: Creating Websites with R Markdown. J.J. Allaire is the founder of RStudio and the creator of the RStudio IDE. He is an author of several packages in the R Markdown ecosystem including rmarkdown, flexdashboard, learnr, and radix. Garrett Grolemund is the co-author of R for Data Science and author of Hands-On Programming with R. He wrote the lubridate R package and works for RStudio as an advocate who trains engineers to do data science with R and the Tidyverse.

The result of a workshop bringing together an international advisory board of experts in science, satellite technologies, industry innovations, and public policy, this book addresses the current and future roles of satellite Earth observations in solving large-scale environmental problems. The book showcases the results of engaging distinct communities to enhance our ability to identify emerging problems and to administer international regimes created to solve them. It also reviews the work of the Policy and Earth Observation Innovation Cycle (PEOIC) project, an effort aimed at assessing the impact of satellite observations on environmental policy and to propose a mission going forward that would launch an "innovation cycle". The achievements of such a mission would feed back to innovations in next-generation observation technology, thus contributing to global policy demand for policy-relevant information. This book is open access under a CC BY license.

Much of the data available today is unstructured and text-heavy, making it challenging for analysts to apply their usual data wrangling and visualization tools. With this practical book, you'll explore text-mining techniques with tidytext, a package that authors Julia Silge and David Robinson developed using the tidy principles behind R packages like ggraph and dplyr. You'll learn how tidytext and other tidy tools in R can make text analysis easier and more effective. The authors demonstrate how treating text as data frames enables you to manipulate, summarize, and visualize characteristics of text. You'll also learn how to integrate natural language processing (NLP) into effective workflows. Practical code examples and data explorations will help you generate real insights from literature, news, and social media. Learn how to apply the tidy text format to NLP Use sentiment analysis to mine the emotional content of text Identify a document's most important terms with frequency measurements Explore relationships and connections between words with the ggraph and widyr packages Convert back and forth between R's tidy and non-tidy text formats Use topic modeling to classify document collections into natural groups Examine case studies that compare Twitter archives, dig into NASA metadata, and analyze thousands of Usenet messages

Discover what it takes to be a ninja hero in this fun LEGO(R) NINJAGO(R) coloring book with 30+ stickers! Are you ready for an epic ninja coloring book? Color your favorite heroes as they battle worthy opponents. From Skulkin to Stone Warriors, Sky Pirates to the Sons of Garmadon, relive Lloyd, Jay, Nya, Kai, Zane, and Cole's best battles! LEGO, the LEGO logo, the Brick and Knob configurations, the Minifigure and NINJAGO are trademarks of the LEGO Group. ©2020 The LEGO Group. Produced by AMEET Sp. z o.o. under license from the LEGO Group.

As The Giving Tree turns fifty, this timeless classic is available for the first time ever in ebook format. This digital edition allows young readers and lifelong fans to continue the legacy and love of a household classic that will now reach an even wider audience. Never before have Shel Silverstein's children's books appeared in a format other than hardcover. Since it was first published fifty years ago, Shel Silverstein's poignant picture book for readers of all ages has offered a touching interpretation of the gift of giving and a serene acceptance of another's capacity to love in return. Shel Silverstein's incomparable career as a bestselling children's book author and illustrator began with Lafcadio, the Lion Who Shot Back. He is also the creator of picture books including A Giraffe and a Half, Who Wants a Cheap Rhinoceros?, The Missing Piece, The Missing Piece Meets the Big O, and the perennial favorite The Giving Tree, and of classic poetry collections such as Where the Sidewalk Ends, A Light in the Attic, Falling Up, Every Thing On It, Don't Bump the Glump!, and Runny Babbit. And don't miss these other Shel Silverstein ebooks, Where the Sidewalk Ends, and A Light in the Attic!

A quantitative introduction to atmospheric science for students and professionals who want to understand and apply basic meteorological concepts but who are not ready for calculus.

With the combination of Coach Melvin's Dynamic Application of Internal Awareness(tm) (DAIA) Method, Dr. Totton's 100-day method to condition your body's neural pathways to

establish a new habit which then becomes automatic, and with Dr. Painter's method of commited practice of Li Family Yixingong (Standing Meditation) to produce profound results at the neurological level, novices to advanced practitioners gain the ability to access your inner core, tapping into an area that can positively affect your overall well-being, prevent stress from taking hold, and give you perpetual mental-physical rejuvenation.

Traditional beliefs about meeting goals are fundamentally flawed. Goal setting tactics assume goals are measurable, achieved, and final-all attributes that describe objectives, not goals. Unlike objectives, which are by their very nature self-contained, goals are immeasurable. A goal is realized, not achieved, and must be maintained to remain successful. What good is the goal of losing weight if you don't keep the weight off? Losing twenty pounds is an objective. Keeping that twenty pounds from returning is a goal, which must be maintained to remain a success. In Three Your Life, entrepreneur and accidental expatriate David R. Sanders applies this important distinction between goals and objectives. Beginning with attitude, outlook, and perception, Sanders builds a solid foundation on which to effect major life changes. Learn to differentiate between needs, wants, and desires-and discover how focusing on desires causes everything else to fall into place. To realize desires, Sanders reevaluates conventional thinking on prioritizing tasks, using a three-part daily structure that ensures you're working toward a productive and fulfilling life. A fresh new approach to goal setting, Three Your Life offers the opportunity to realize your goals, achieve your objectives, and understand the difference between the two.

Turn your R code into packages that others can easily download and use. This practical book shows you how to bundle reusable R functions, sample data, and documentation together by applying author Hadley Wickham's package development philosophy. In the process, you'll work with devtools, roxygen, and testthat, a set of R packages that automate common development tasks. Devtools encapsulates best practices that Hadley has learned from years of working with this programming language. Ideal for developers, data scientists, and programmers with various backgrounds, this book starts you with the basics and shows you how to improve your package writing over time. You'll learn to focus on what you want your package to do, rather than think about package structure. Learn about the most useful components of an R package, including vignettes and unit tests Automate anything you can, taking advantage of the years of development experience embodied in devtools Get tips on good style, such as organizing functions into files Streamline your development process with devtools Learn the best way to submit your package to the Comprehensive R Archive Network (CRAN) Learn from a well-respected member of the R community who created 30 R packages, including ggplot2, dplyr, and tidyr

The richly illustrated Interactive Web-Based Data Visualization with R, plotly, and shiny focuses on the process of programming interactive web graphics for multidimensional data analysis. It is written for the data analyst who wants to leverage the capabilities of interactive web graphics without having to learn web programming. Through many R code examples, you will learn how to tap the extensive functionality of these tools to enhance the presentation and exploration of data. By mastering these concepts and tools, you will impress your colleagues with your ability to quickly generate more informative, engaging, and reproducible interactive graphics using free and open source software that you can share over email, export to pdf, and more. Key Features: Convert static ggplot2 graphics to an interactive web-based form Link, animate, and arrange multiple plots in standalone HTML from R Embed, modify, and respond to plotly graphics in a shiny app Learn best practices for visualizing continuous, discrete, and multivariate data Learn numerous ways to visualize geo-spatial data This book makes heavy use of plotly for graphical rendering, but you will also learn about other R packages that support different phases of a data science workflow, such as tidyr, dplyr, and tidyverse. Along the way, you will gain insight into best practices for visualization of high-dimensional data, statistical graphics, and graphical perception. The printed book is complemented by an interactive website where readers can view movies demonstrating the examples and interact with graphics.

This book, first published in 1989, contains reprints of the early periodical on accounting, The Book-Keeper. It dealt with 'historical reviews of methods and systems in all ages and by all nations. Elucidations of accounts, introducing new and simplified features of accounting. Problems from the counting-room discussed and explained. Instructive notes upon plans and methods of book-keeping in every department of trade, commerce and industry.' The journal is a primary source for students interested in the history of accounting.

This book is designed to comply with all federal regulations concerning the record keeping requirements for federal firearms licensees. The book contains enough blank entries for five hundred firearm receipt and disposition entries as well as containing an unique record keeping system which will simplify and maintain inventory for the FFL.

"Respect the teachers. They are like gods." This was taught to me by my mom, who is a teacher. "Respect the teachers for sure but if they don't behave like teachers, take you for granted always and start behaving like unethical monsters, then don't forget to make them realize by your actions that you are also human as they are, and sometimes you can also make mistakes as they did." This was taught to me by one of my mentors who is a school principal. I agree with both of them, because that's how the life is supposed to be lived. "Respect the teachers for sure and but if they don't behave……..and all the above I agreed to, but those who mentor you – your teachers, your parents, your peers, your bosses, even your juniors, trust me they are all biased for the one reason that they are all humans with one heart on the left side which can't be right for most of the practicalities of life and a brain at the top of their head which makes them think – sometimes for you and is most of the times trained naturally to prioritize for themselves and their people, and occasionally you might also be a 'rit' in their favorites so they are thinking in favor of you. I am no one to judge anyone's parents or teachers or bosses or relatives but why, why one of the kids becomes a better child for parents and why the teachers say, 'o that kid is not ranked high in my list?' Life in itself is a practice and you learn to live it better and better as you learn its principles and understand its simple complexities – just like playing a guitar, like playing video games, like understanding the female sex – the more you practice, the more near to perfect you become. But there is one more thing to it and that is that if I am intelligent and if I

am mentally strong then I could not become anything – neither bad nor good, neither crook nor candid, neither a hero nor a zero. I can only curse myself sitting in a corner of a dark and shady room criticizing myself with a bitter and entirely rubbish but absolute truth and that is 'an intelligent and mentally strong man can NOT seriously become anything and that a fool and a weak can only make efforts to become something, to gain and to achieve and a lot of weakness and foolishness is required to run this world.' What achievement is an achievement, what mission is a mission without any challenges? And weak and foolish only MAKE themselves better, prepare to become strong and intelligent and plan to face the challenges and break the code. History is the biggest proof that everything that's done without planning could let the strongest loose easily and proper planning, accompanied with a long smooch of confidence and a touch of zeal could make a weaker be victorious. That's what I had learnt throughout my life after facing so many situations and problems till now and I am still learning the lessons of the game called life, not to win the wars but the hearts and that, my dear friends is this story for…. and this book is dedicated: To all those people who made me realize how delicate, beautiful, important, strong, powerful and deadly – IS the game of LOVE. I said 'game' of love because it is believed even in today's world, that love is strong and it's the strength of any relationship and it wins over all the obstacles and the ones who are against it; though it requires genuineness and sacrifices, but even that way, don't its definition makes love a game, with its own properties and rules? ……….. Every love story generally has a common theme - we see you meet, face challenges, fall in love, face challenges, even get married, face challenges and it's all a predictable dream. The last shot will show you and your lover with a family. That's it right? Well no. because I believe in mentioning something which is real, something from somewhere me and you belong – this real world. And there, love do not wins – not always;

Master the Shiny web framework—and take your R skills to a whole new level. By letting you move beyond static reports, Shiny helps you create fully interactive web apps for data analyses. Users will be able to jump between datasets, explore different subsets or facets of the data, run models with parameter values of their choosing, customize visualizations, and much more. Hadley Wickham from RStudio shows data scientists, data analysts, statisticians, and scientific researchers with no knowledge of HTML, CSS, or JavaScript how to create rich web apps from R. This in-depth guide provides a learning path that you can follow with confidence, as you go from a Shiny beginner to an expert developer who can write large, complex apps that are maintainable and performant. Get started: Discover how the major pieces of a Shiny app fit together Put Shiny in action: Explore Shiny functionality with a focus on code samples, example apps, and useful techniques Master reactivity: Go deep into the theory and practice of reactive programming and examine reactive graph components Apply best practices: Examine useful techniques for making your Shiny apps work well in production

Alyssa takes on a new adventure after being forced to return to the Island of Lucina. Xavier King, the Guardian of Ashland, is the key suspect to helping her with her memory lost, but he is keeping a secret that will cause his relationship to ruin. Could her curiosity get her into trouble? He should expect her to break the rules, but why? He knows that she is the unseen god of Lucina.-this Amory everyone has been speaking of since the beginning. Alyssa challenges his lordship over the Guardians and Reapers. She finds his tactics very weak and counterattacks him with her sexy brown lips and her hips that are sure to please. Meanwhile, the Champions are plotting an ambush and calling it the Vampire Games as the Seekers race against the clock to save the mysterious man behind the mask.

We create these self-practice test questions module (with 130+ questions) referencing both the the requirements set forth in the adopted IMC as well as some NJ specific information currently valid in the HVAC trade (plus a bit of knowledge on electrical works as many appliances are electric powered). Each question comes with an answer and a short explanation which aids you in seeking further study information. For purpose of exam readiness drilling, this product includes questions that have varying numbers of choices. Some have 2 while some have 6 or 7. We want to make sure these questions are tough enough to really test your readiness and draw your focus to the weak areas. You should use this product together with other study resources for the best possible exam prep coverage.

Sean Murphy, a responsible, doting husband, father, and provider, executes his impulsive plan to kidnap a wealthy infant heir. His wife Kathryn and their two toddler daughters, Nichole and Lauren, are unknowing participants in this perfect crime. Sean rents a cozy, secluded cottage to provide a relaxing summer for his family, and they welcome the unexpected, beautiful baby boy that Sean brings home to join their lazy days by the lake.Sean's arrangements are unfolding as the perfect crime, or are they? Are his plans as seamless and foolproof as he believes? He takes every precaution, or does he? Will the Winslows ever hold their baby again? Will Kathryn discoverher husband's covert activities?Deemed a "riveting crime story that had my full attention" by retired New York Police Department Chief Michael Scagnelli, "Ransom By Mail" is a suspenseful fiction that will keep you engaged until the final page. Paul R. Payton's firstnovel will captivate human nature and the conflict of resentment, revenge, and wealth resurfacing and influencing reasoning, life choices, and life's finale in a thriller with twists and turns that no one expects.