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Hands-On Programming with R

WRITE YOUR OWN FUNCTIONS AND SIMULATIONS

Garrett Grolemund
Foreword by Hadley Wickham

Hands On Programming With R Write Your Own Functions And Simulations Garrett Grolemond

Garrett Grolemond



Hands On Programming With R Write Your Own Functions And Simulations Garrett Golemund:

Hands-On Programming with R Garrett Golemund, 2014-06-13 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

Hands-on Programming with R Garrett Golemund, 2014 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

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Ruído num Espaço de probabilidade Democrático de Direito Cleuler Barbosa das Neves, 2025-01-22 Esta obra uma arriscada jogada num Cassino de Monte Carlo serve como base para realizar pesquisas empíricas no campo do Direito e Políticas Públicas a partir da concepção de modelos do teste estatístico das Hipóteses destes deduzidas valendo-se da simulação de dados notebooks para gerar distribuições amostrais bootstrap e ainda uma arrojada aposta nas Cadeias de Markov pois MATLOFF 2019 p 359 361 faz expressa referência KUMAR e PAUL 2016 p 17 18 77 80 para apontar que uma modelagem HMM Hidden Markov Models aplicável simula o deslocamento de um nibus coletivo urbano bus ridership aqui por analogia aplicada simula o deslocamento populacional carcerário diário na Ala 155 de um presídio para verificar se houve ou não e qual seria a proporção diária de superpopulação carcerária ao longo de uma simulação de 28 anos 7 mandatos desde que conhecidas as probabilidades do

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R for Data Science
 Hadley Wickham,Mine Çetinkaya-Rundel,Garrett Grolemond,2023-06-08 Cover Copyright Table of Contents Preface What You Will Learn How This Book Is Organized What You Won t Learn Big Data Python Julia and Friends Nonrectangular Data Hypothesis Confirmation Prerequisites R RStudio The Tidyverse Other Packages Running R Code Getting Help and Learning More Acknowledgments Online Version Conventions Used in This Book Using Code Examples O Reilly Online Learning How to Contact Us Part I Explore Chapter 1 Data Visualization with ggplot2 Introduction Prerequisites First Steps The mpg Data Frame Creating a ggplot A Graphing Template Exercises Aesthetic Mappings Exercises Common Problems Facets Exercises Geometric Objects Exercises Statistical Transformations Exercises Position Adjustments Exercises Coordinate Systems Exercises The Layered Grammar of Graphics Chapter 2 Workflow Basics Coding Basics What s in a Name Calling Functions Exercises Chapter 3 Data Transformation with dplyr Introduction Prerequisites nycflights13 dplyr Basics Filter Rows with filter Comparisons Logical Operators Missing Values Exercises Arrange Rows with arrange Exercises Select Columns with select Exercises Add New Variables with mutate Useful Creation Functions Exercises Grouped Summaries with summarize Combining Multiple Operations with the Pipe Missing Values Counts Useful Summary Functions Grouping by Multiple Variables Ungrouping Exercises Grouped Mutates and Filters Exercises Chapter 4 Workflow Scripts Running Code RStudio Diagnostics Exercises Chapter 5 Exploratory Data Analysis Introduction Prerequisites Questions Variation Visualizing Distributions

R for Data Science Hadley Wickham,Mine Çetinkaya-Rundel,Garrett Grolemond,2023-10-03 Learn how to use R to turn data into insight knowledge and understanding Ideal for current and aspiring data scientists this book introduces you to doing data science with R and RStudio as well as the tidyverse a collection of R packages designed to work together to make data science fast fluent and fun Even if you have no programming experience this updated edition will have you doing data science quickly You ll learn how to import transform and visualize your data and communicate the results And you ll get a complete big picture understanding of the data science cycle and the basic tools you need to manage the details Each section in this edition includes exercises to help you practice what you ve learned along the way Updated for the latest tidyverse best practices new chapters dive deeper into visualization and data wrangling show you how to get data from spreadsheets databases and websites and help you make the most of new programming tools You ll learn how to Visualize create plots for data exploration and communication of results Transform discover types of variables and the tools you can use to work with them Import get data into R and in a form convenient for analysis Program learn R tools for solving data

problems with greater clarity and ease Communicate integrate prose code and results with Quarto *R Programming for Beginners* Nathan Metzler, 2019-11-22 Master the programming skills you need to turn raw unfiltered data into deep insights and get ready for a data science and analytics career with this definitive guide to R Programming for Beginners Do you want to get started learning how to program but don't know where to begin Are you interested in moving beyond Excel sheets and learning one of the most powerful programming language used in cutting edge research such as machine learning If you answered yes to any of these questions then this book might just be what you need R can be a royal pain in the neck sometimes Even seasoned programmers and data analysts still struggle with it But it doesn't have to be you In this guide you're going to learn everything you need to do heavy data wrangling in R with graded exercises and examples at the end to help you reinforce what you've learned Here's a preview of what you're going to discover in R Programming for Beginners Step by step instructions to help you set up and install the R Environment with photos How to properly Execute R Scripts with your favorite code editor Everything you need to know about the R syntax statements blocks comments and keywords Steps to help you write your very first R script and begin your programming journey The 6 data types supported by the R programming language How to name variables and assign values to them Steps to help you write well defined user functions effectively How to control program flow with decision making control structures and loops How to visualize data with R programming and lots more Whether you're completely new to programming and have never written a single line of code before or you're an intermediate or experienced R programmer looking to brush up on the basics this book has everything you need to master R completely Scroll to the top of the page and click the Add to Cart button to get started today [R Programming for Beginners](#) Peter Simon, R Programming for Beginners Master the Fundamentals of R Even with Zero Coding Experience The Ultimate Beginner's Guide to Learning R Perfect for First Time Coders Data Enthusiasts and Future Analysts Ready to dive into the world of data but not sure where to start Whether you're exploring data science with R planning to take an R programming online course or just curious about coding R Programming for Beginners is your go to guide for mastering the essentials of the R programming language no technical background needed This book is more than just a read it's a hands on R course for beginners that walks you step by step through real world examples making learning R programming for beginners simple effective and even fun What This R Programming Book Covers Introduction to R Software for Beginners Learn what R is how to install and use R Studio for beginners and why it's one of the top tools for data analysis and statistical computing Essential R Programming Language Basics Master the core concepts Data types and variables Vectors matrices and data frames Control structures if statements loops Writing custom functions Basic R programs for data manipulation and cleaning Hands On Practice for Real Learning Apply what you learn with practical examples and exercises just like a real R programming course for beginners or an R programming tutorial for beginners would provide Why This Is the Best Way to Learn R Programming Online Structured Like an R Programming Language Online Course With clear

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R Programming I. T. Starter Series, 2018-04-14 R Programming Learn the Basics of R Programming in One Week Why and how should you use R If you have ever asked these questions then this book was written for you R Programming has plenty of unique features making it different from other programming languages This guide shows you how to talk to R and how the R engine reads the code you have written Learn everything you need to understand how to leverage this extremely versatile toolbox used by a widespread community of academicians practitioners programmers and users in R Programming Beginner s Guide on R Programming by the IT Starter Series This short guidebook gives you all the necessary basics IT Starter Series breaks down terminology that may otherwise be confusing offers systematically simple to follow directions and breaks down the confusion of just getting started into easy to handle actionable instructions This free program processes more than just statistics and has broken into the world of data processing graphic visualization and other types of analysis With IT Starter Series easy to follow guidance you will learn The history advantages and unique features of R Programming Why R is unlike C or Java How to work with a Code Editor and issue a simple command How to use R to do simple math use vectors store and calculate values How to use the full power of functions How to find install load and unload packages and so much more By the end of R Programming Learn the Basics of R Programming in One Week you will be able to contrast your own mathematical operations and use those to work on large amounts of data This guide is a great resource for anyone looking to understand and use R Programming You will learn basic functions that will start you on your journey to creating more complicated functions Keep this guide handy to refer to again and again along

with your analysis journey This guide for beginners covers the basics of what R Programming is and how you can use it to your advantage Get your copy today [R Programming for Beginners](#) Anshuman Mishra,2025-01-09 R Programming for Beginners Unlock the Power of Data is designed as the ultimate guide for those who are new to programming and data analysis Whether you re a student professional or someone just starting their journey with R this book will provide you with the foundation needed to work confidently with data Through easy to follow explanations practical examples and hands on exercises this book introduces the basic concepts of R programming including its syntax data structures and built in functions You ll learn how to import manipulate and visualize data using R and develop a strong understanding of statistical analysis By the end of this book you will have the skills necessary to solve real world problems using R and be well prepared to dive into more advanced topics or data science projects

How to Study This Book

- 1 Follow the Structure Step by Step Each chapter is designed to build upon the previous one It s essential to go through the chapters sequentially to understand the logical flow of learning Start from the basics and gradually move toward more complex topics
- 2 Hands On Practice R programming is all about practice Make sure to work through the exercises and examples provided in each chapter Don t just read actively try to write code run it in RStudio and experiment with different commands The more you practice the more comfortable you ll become with R
- 3 Use the R Help System If you encounter any difficulties or are unsure about a particular function use R s built in help system Each chapter includes tips on how to search for documentation within RStudio or the online R community
- 4 Learn by Solving Problems After completing each chapter challenge yourself by solving small problems You can find simple datasets online and apply what you ve learned to analyze them or create your own datasets for practice
- 5 Review and Reflect After finishing each section take a moment to review the key concepts Try explaining them to someone else or write them down in your own words to solidify your understanding

Benefits of Studying This Book

Solid Foundation in R Programming This book is perfect for beginners and it helps you develop a strong foundational knowledge of R By learning the basics correctly you ll set yourself up for success in more advanced topics in programming and data analysis

Practical Hands On Learning Learning programming requires practice and this book emphasizes that With hands on examples and exercises you ll gain experience working with real data making it easier to apply R in real world scenarios

Data Science Skills R is one of the most popular programming languages for data analysis statistics and visualization By mastering R through this book you will acquire essential data science skills opening doors to numerous opportunities in fields like business research and technology

Understand Data Visualization The book provides detailed coverage of data visualization techniques using R particularly through the ggplot2 package Mastering data visualization is an invaluable skill for anyone working with data and helps communicate insights effectively

Boost Confidence in Data Driven Decision Making By learning how to manipulate and analyze data you will develop the ability to make informed data driven decisions Whether you re conducting research making business decisions or pursuing academic goals knowing R will give you the tools to work with data

effectively Prepare for Advanced Learning This book serves as a stepping stone to more advanced R programming or data science topics

Functional Programming in R Thomas Mailund, 2017-03-27 Master functions and discover how to write functional programs in R In this concise book you'll make your functions pure by avoiding side effects you'll write functions that manipulate other functions and you'll construct complex functions using simpler functions as building blocks In Functional Programming in R you'll see how we can replace loops which can have side effects with recursive functions that can more easily avoid them In addition the book covers why you shouldn't use recursion when loops are more efficient and how you can get the best of both worlds Functional programming is a style of programming like object oriented programming but one that focuses on data transformations and calculations rather than objects and state Where in object oriented programming you model your programs by describing which states an object can be in and how methods will reveal or modify that state in functional programming you model programs by describing how functions translate input data to output data Functions themselves are considered to be data you can manipulate and much of the strength of functional programming comes from manipulating functions that is building more complex functions by combining simpler functions What You'll Learn Write functions in R including infix operators and replacement functions Create higher order functions Pass functions to other functions and start using functions as data you can manipulate Use Filter Map and Reduce functions to express the intent behind code clearly and safely Build new functions from existing functions without necessarily writing any new functions using point free programming Create functions that carry data along with them Who This Book Is For Those with at least some experience with programming in R

R Programming Ajit Singh, 2020-07-23 Data science is an exciting discipline that allows you to turn raw data into understanding insight and knowledge The goal of R for Data Science is to help you learn the most important tools in R that will allow you to do data science After reading this book you'll have the tools to tackle a wide variety of data science challenges using the best parts of R This book will teach you how to program in R You'll go from loading data to writing your own functions which will outperform the functions of other R users This is an understandable approach to learning R Visualizing and modeling data are complicated skills that require a programmer's full attention It takes expertise judgement and focus to extract reliable insights from a data set This book proudly focuses on small in memory datasets This is the right place to start because you can't tackle big data unless you have experience with small data I think R is a great place to start your data science journey because it is an environment designed from the ground up to support data science R is not just a programming language but it is also an interactive environment for doing data science Simply In Depth

Beginning R Larry Pace, 2012-11-28 Beginning R An Introduction to Statistical Programming is a hands on book showing how to use the R language write and save R scripts build and import data files and write your own custom statistical functions R is a powerful open source implementation of the statistical language S which was developed by AT T R has eclipsed S and the commercially available S Plus language and has become the de facto standard for doing

teaching and learning computational statistics R is both an object oriented language and a functional language that is easy to learn easy to use and completely free A large community of dedicated R users and programmers provides an excellent source of R code functions and data sets R is also becoming adopted into commercial tools such as Oracle Database Your investment in learning R is sure to pay off in the long term as R continues to grow into the go to language for statistical exploration and research Covers the freely available R language for statistics Shows the use of R in specific uses case such as simulations discrete probability solutions one way ANOVA analysis and more Takes a hands on and example based approach incorporating best practices with clear explanations of the statistics being done **R Programming** Andy

Vickler,2022-04-28 R is an open source statistical environment and programming language that has grown in popularity for data management and analysis in various industries R Programming teaches you all the R you ll ever need in a rapid and painless manner This accessible tutorial taught you your way around a list with no previous programming expertise and loads of practical examples step by step exercises and sample code This book covers the most significant modeling and prediction methods as well as their applications Learn how to use R to transform raw data into knowledge understanding and insight This book introduces you to R RStudio and the tidyverse a set of R tools that work together to make data research simple fluent and enjoyable This book is meant to get you practicing data science as fast as possible even if you have no prior programming expertise You ll get a comprehensive grasp of the data science cycle and the fundamental tools you ll need to handle the details R is becoming more well known by the day as large institutions embrace it as a standard Its popularity stems partly from the fact that it is a free tool replacing expensive statistical software products that may take an undue amount of time to master Furthermore R allows a user to do complicated statistical analyses with only a few keystrokes making advanced studies accessible and clear to a broad audience Learn how to import data construct and dismantle data objects traverse R s environment system develop your own functions and utilize all of R s programming tools with this book This book will not only teach you how to program but also how to use R for more than simply displaying and analyzing data Most of the chapters are written for you to understand statistical data so if you are a student this book can guarantee to teach you some basic statistics that will help you get good grades Interested in statistical computing R Programming Data Analysis and Statistics is a beginner friendly book It is written in an accessible way and deal with the basics as well as more complex problems No prior statistical knowledge is required This book may also help more advanced programmers expand their skills This book is like a friend who advises and guides you on how to use the ggplot2 package for making data visualizations With this book you will learn how to get started with data visualization in R You will learn basic concepts of graphics and you will also learn how to perform statistical analyses This book is for everyone who faces a difficult task when trying to make data visualizations using R It is also for people who are interested in learning more about statistics and graphical techniques The book also teaches readers how to get started with ggplot2 and it also introduces the basics of R so

that readers are aware of the basic commands and functions in R as well as importing libraries R has transformed the way statistical modeling approaches are applied and has become a tool which is commonly used by analysts programmers and visual artists alike Its ease of use and flexibility make it an invaluable tool for working with large amounts of data **The Art of R Programming** Norman Matloff,2011-10-11 R is the world s most popular language for developing statistical software Archaeologists use it to track the spread of ancient civilizations drug companies use it to discover which medications are safe and effective and actuaries use it to assess financial risks and keep economies running smoothly The Art of R Programming takes you on a guided tour of software development with R from basic types and data structures to advanced topics like closures recursion and anonymous functions No statistical knowledge is required and your programming skills can range from hobbyist to pro Along the way you ll learn about functional and object oriented programming running mathematical simulations and rearranging complex data into simpler more useful formats You ll also learn to Create artful graphs to visualize complex data sets and functions Write more efficient code using parallel R and vectorization Interface R with C C and Python for increased speed or functionality Find new R packages for text analysis image manipulation and more Squash annoying bugs with advanced debugging techniques Whether you re designing aircraft forecasting the weather or you just need to tame your data The Art of R Programming is your guide to harnessing the power of statistical computing

Advanced Object-Oriented Programming in R Thomas Mailund,2017-06-24 Learn how to write object oriented programs in R and how to construct classes and class hierarchies in the three object oriented systems available in R This book gives an introduction to object oriented programming in the R programming language and shows you how to use and apply R in an object oriented manner You will then be able to use this powerful programming style in your own statistical programming projects to write flexible and extendable software After reading Advanced Object Oriented Programming in R you ll come away with a practical project that you can reuse in your own analytics coding endeavors You ll then be able to visualize your data as objects that have state and then manipulate those objects with polymorphic or generic methods Your projects will benefit from the high degree of flexibility provided by polymorphism where the choice of concrete method to execute depends on the type of data being manipulated What You ll Learn Define and use classes and generic functions using R Work with the R class hierarchies Benefit from implementation reuse Handle operator overloading Apply the S4 and R6 classes Who This Book Is For Experienced programmers and for those with at least some prior experience with R programming language div *R Programming* Andy Vickler,2023-05-06 R is an open source statistical environment and programming language that has grown in popularity for data management and analysis in various industries R Programming teaches you all the R you ll ever need in a rapid and painless manner This accessible tutorial taught you your way around a list with no previous programming expertise and loads of practical examples step by step exercises and sample code This book covers the most significant modeling and prediction methods as well as their applications Learn how to use R to transform raw data into

knowledge understanding and insight This book introduces you to R RStudio and the tidyverse a set of R tools that work together to make data research simple fluent and enjoyable This book is meant to get you practicing data science as fast as possible even if you have no prior programming expertise You ll get a comprehensive grasp of the data science cycle and the fundamental tools you ll need to handle the details R is becoming more well known by the day as large institutions embrace it as a standard Its popularity stems partly from the fact that it is a free tool replacing expensive statistical software products that may take an undue amount of time to master Furthermore R allows a user to do complicated statistical analyses with only a few keystrokes making advanced studies accessible and clear to a broad audience Learn how to import data construct and dismantle data objects traverse R s environment system develop your own functions and utilize all of R s programming tools with this book This book will not only teach you how to program but also how to use R for more than simply displaying and analyzing data Most of the chapters are written for you to understand statistical data so if you are a student this book can guarantee to teach you some basic statistics that will help you get good grades The first two chapters are based on beginner s level of R programming mainly teaching how to successfully install and run the program on your device and introducing Rstudio to you You will get complete guidance Chapters three and four will teach you some basic and simple lines of code and how you can successfully execute them on your device There will be some simple maths included After that you will start chapter five which is completely based on statistics Chapters six and seven will take your attention to more IT If you already know basic HTML you will get more information in these chapters as they include similar topics as HTML Finally you arrived at chapters eight nine and ten which will enable you to create and run your data These chapters will complete your journey by allowing you to understand how data frames work and how you can work with different types of data You will also see how you can install premade data packages that can be helpful when you want to practice more After that you will know how to visualize your data in different forms of charts graphs etc The book is highly informative with lots of code and also I added tons of pictures of how the code will look in r studio Following the book you will be able to start Rstudio and use the program smoothly

Beginning R Larry Pace,Joshua Wiley,2015-10-23 Beginning R Second Edition is a hands on book showing how to use the R language write and save R scripts read in data files and write custom statistical functions as well as use built in functions This book shows the use of R in specific cases such as one way ANOVA analysis linear and logistic regression data visualization parallel processing bootstrapping and more It takes a hands on example based approach incorporating best practices with clear explanations of the statistics being done It has been completely re written since the first edition to make use of the latest packages and features in R version 3 R is a powerful open source language and programming environment for statistics and has become the de facto standard for doing teaching and learning computational statistics R is both an object oriented language and a functional language that is easy to learn easy to use and completely free A large community of dedicated R users and programmers provides an excellent source of R code functions and data sets

with a constantly evolving ecosystem of packages providing new functionality for data analysis R has also become popular in commercial use at companies such as Microsoft Google and Oracle Your investment in learning R is sure to pay off in the long term as R continues to grow into the go to language for data analysis and research

What You Will Learn

- How to acquire and install R
- Hot to import and export data and scripts
- How to analyze data and generate graphics
- How to program in R to write custom functions
- Hot to use R for interactive statistical explorations
- How to conduct bootstrapping and other advanced techniques

The Book of R Tilman M. Davies, 2016-07-16 The Book of R is a comprehensive beginner friendly guide to R the world s most popular programming language for statistical analysis Even if you have no programming experience and little more than a grounding in the basics of mathematics you ll find everything you need to begin using R effectively for statistical analysis You ll start with the basics like how to handle data and write simple programs before moving on to more advanced topics like producing statistical summaries of your data and performing statistical tests and modeling You ll even learn how to create impressive data visualizations with R s basic graphics tools and contributed packages like ggplot2 and ggvis as well as interactive 3D visualizations using the rgl package Dozens of hands on exercises with downloadable solutions take you from theory to practice as you learn The fundamentals of programming in R including how to write data frames create functions and use variables statements and loops Statistical concepts like exploratory data analysis probabilities hypothesis tests and regression modeling and how to execute them in R How to access R s thousands of functions libraries and data sets How to draw valid and useful conclusions from your data How to create publication quality graphics of your results Combining detailed explanations with real world examples and exercises this book will provide you with a solid understanding of both statistics and the depth of R s functionality Make The Book of R your doorway into the growing world of data analysis

R Programming Daniel Daniel Bell, 2020-06 2020 Second Edition updated version Get your copy Why Learn R What are the reasons to learn R for Data Science In this small textbook recommended for absolute beginners the author tried to answer these types of questions After reading this guide maybe in one or two days you will learn the basics of R programming and its utility for each Data Scientist Indeed R is a programming language and software environment for statistical analysis graphics representation and reporting If you are trying to understand the R programming language as a beginner this short book will give you enough understanding of almost all the concepts of the R language The author will guide you through examples how to program in R and how to use R for effective data analysis Get your copy Now

Book Objectives This book is about R programming The following are the objectives of the author To familiarize you with the basics of R programming language To help you understand the various fields where R can be applied and its use cases in each field To equip you with R programming skills both beginner and advanced skills To introduce you to R programming for data analysis To introduce you to R programming for machine learning To help you understand and appreciate the power of R in statistical computing data analysis and scientific research Who this Book is for Anybody who is a complete beginner to R

Programming Anybody in need of advancing their R Programming skills Professionals in computer programming Professors lecturers or tutors who are looking to find better ways to explain R programming to their students in the simplest and easiest way Students and academicians especially those focusing on R Data Analysis Machine Learning computer science and Databases development Requirements The author expects you to have a computer installed with an operating system such as Linux Windows or Mac OS X What is inside the book R BASICS R DATA TYPES R VARIABLES AND CONSTANTS R OPERATORS DECISION MAKING IN R R LOOPS R FUNCTIONS R CLASSES AND OBJECTS R FOR DATA SCIENCE R FOR MACHINE LEARNING From the Back Cover R programming language is one of the most popular languages used by statisticians data analysts researchers to retrieve clean analyze visualize and present data This is a comprehensive book on how to get started with R programming why you should learn it and how you can learn it Daniel Bell begins by introducing the readers to the foundations of the R programming language The aim is to help you understand how the R interpreter works the origin of the name R how to set up the R programming environment etc The author has discussed the process of installing R on Windows Linux and Mac OS Moreover the author has explored the basics of R programming including writing comments using the R console creating R script files etc The various features provided by R have been discussed in depth including data types variables loops decision making functions operators classes and objects etc The author has also discussed R for data science and R for machine learning The book has been organized into chapters with each chapter having many sub chapters R code scripts have been provided alongside thorough explanations of the code and images showing the expected output upon the execution of every script Get your copy

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