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Introduction To R Syllabus University Of Kentucky

Introduction to
Statistical Thinking By
Benjamin Yakir
This book provides a
systematic

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introduction to the issues involved in designing and implementing courses of English for Legal Purposes. Each chapter highlights a different aspect of the curriculum development process, including syllabus design, taking into account the special role of needs

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analysis, materials development, and the question of assessing and testing languages for special purposes.

In addition, the book provides a brief outline of key concepts in the methodology of English for S ...

This book explores how using small groups in second

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language classrooms supports language learning. Chappell's experience as a language teacher equips him to present a clear, evidence-based argument for the powerful influence group work has upon the opportunities for learning, and how it should therefore be an integral part of

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language lessons.

Learn how to use R to turn raw data into insight, knowledge, and understanding.

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

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with no previous programming experience, R for Data Science is designed to get you doing data science as quickly as possible.

Authors Hadley Wickham and Garrett Grolemund guide you through the steps of importing, wrangling, exploring, and modeling your data

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and communicating the results. You'll get a complete, big-picture understanding of the data science cycle, along with basic tools you need to manage the details. Each section of the book is paired with exercises to help you practice what you've learned along the way. You'll learn how

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to: Wrangle—transform your datasets into a form convenient for analysis
Program—learn powerful R tools for solving data problems with greater clarity and ease
Explore—examine your data, generate hypotheses, and quickly test them
Model—provide a low-

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dimensional summary

that captures true

"signals" in your

dataset

Communicate & learn R

Markdown for

integrating prose,

code, and results

Towards a "second

Generation" in

Environmental Laws

in the Asian and

Pacific Region

Catalog of Copyright

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Entries. Third Series
R Programming for
Data Science
Introductory Statistics
with R
The Art of R
Programming
Exemplars of
Curriculum Theory
*An Introduction to
Statistical Learning
provides an
accessible overview*

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*of the field of
statistical learning, an
essential toolset for
making sense of the
vast and complex
data sets that have
emerged in fields
ranging from biology
to finance to
marketing to
astrophysics in the
past twenty years.*

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This book presents some of the most important modeling and prediction techniques, along with relevant applications. Topics include linear regression, classification, resampling methods, shrinkage

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approaches, tree-based methods, support vector

machines, clustering, and more. Color graphics and real-world examples are used to illustrate the methods presented.

Since the goal of this textbook is to facilitate the use of

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*these statistical
learning techniques
by practitioners in
science, industry, and
other fields, each
chapter contains a
tutorial on
implementing the
analyses and methods
presented in R, an
extremely popular
open source statistical*

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software platform.

*Two of the authors
co-wrote The*

Elements of Statistical

Learning (Hastie,

Tibshirani and

Friedman, 2nd

edition 2009), a

popular reference

book for statistics

and machine learning

researchers. An

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*Introduction to
Statistical Learning
covers many of the
same topics, but at a
level accessible to a
much broader
audience. This book
is targeted at
statisticians and non-
statisticians alike who
wish to use cutting-
edge statistical*

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*learning techniques to
analyze their data.*

*The text assumes only
a previous course in
linear regression and
no knowledge of
matrix algebra.*

*This book fills a gap
in language education
through the
application of social
theory to curriculum*

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design. It describes an integrated theoretical framework for

curriculum design

and presents

examples of text-

based curriculum. As

such, it will provide

teachers, teacher

educators and

curriculum planners

with a curriculum

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*model for teaching
children and adults in
different contexts*

*from preschool to
adult education as
well as serving as a
practical guide for
students training to
become teachers.*

*This book explores
theories and
pedagogies in the L2*

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*classroom that have
led to an
understanding of
how non-native
languages are taught
and learned.*

*Featuring a diverse
set of perspectives
from researchers and
language educators
from around the
globe, this book*

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*highlights important
theoretical and
practical*

*underpinnings of the
L2 classroom—discu
ssions on what has
worked and why.*

*Some examples of
these topics include:
online and nonverbal
communication,
peace literacy,*

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*learning behaviors,
high-impact practices,
pragmatic awareness,*

*study abroad, implicit
and explicit teaching,
motivation, and*

*more. One mission of
this book is to*

*appreciate a diverse
array of L2 teaching
practices with sound
theoretical*

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*underpinnings and
universal implications
for L2 classrooms.*

*The chapter
contributions are the
result of an open call
for studies that
highlight practical
innovative
approaches in L2
teaching and learning
and expand the*

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*avenues of
exploration available
within their
theoretical
frameworks. More
specifically, the call
for proposals sought
to gather a diverse set
of perspectives from
researchers and
language educators
from various parts of*

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the world in order to provide practical and thought-provoking insight on innovative approaches to L2 teaching. As such, the studies in this book all share a common goal that demonstrates the applicability of L2 teaching practices

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*across languages,
cultures, and regions.*

*The book is intended
to act as a valuable
reference for
language educators,
practitioners,
specialists, and
anyone studying or
wishing to gain an
overview of
successful teaching*

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*practices and
learning nuances in
the L2 classroom that
cross all languages,
cultures, and regions.
Demonstrates the
principles involved in
planning and
designing an
effective syllabus.
This book examines
important concepts,*

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*such as needs
analysis, goal-setting,
and content*

*specification, and
serves as a useful
introduction for
teachers who want to
gain an
understanding of
syllabus design in
order to modify the
syllabuses with which*

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they work.

*Python for
Everybody*

*An Introduction to
Statistical Learning
Routledge*

*International
Handbook of
Research Methods in
Digital Humanities*

*The Making of
Curriculum*

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*Teaching and
Training in Lifelong
Learning*

*A Tidy Programming
Approach*

*Conquer the
complexities of this
open source statistical
language R is fast
becoming the de facto
standard for statistical
computing and
analysis in science,*

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business, engineering, and related fields. This book examines this complex language using simple statistical examples, showing how R operates in a user-friendly context. Both students and workers in fields that require extensive statistical analysis will find this

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book helpful as they learn to use R for simple summary statistics, hypothesis testing, creating graphs, regression, and much more. It covers formula notation, complex statistics, manipulating data and extracting components, and rudimentary

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programming. R, the open source statistical language increasingly used to handle statistics and produces publication-quality graphs, is notoriously complex. This book makes R easier to understand through the use of simple statistical examples, teaching the necessary

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elements in the context in which R is actually used Covers getting started with R and using it for simple summary statistics, hypothesis testing, and graphs Shows how to use R for formula notation, complex statistics, manipulating data, extracting components, and

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*regression Provides
beginning*

programming

*instruction for those
who want to write
their own scripts*

*Beginning R offers
anyone who needs to
perform statistical
analysis the*

*information necessary
to use R with
confidence.*

Now in its third

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edition, this classic book is widely considered the leading text on Bayesian methods, lauded for its accessible, practical approach to analyzing data and solving research problems.

Bayesian Data Analysis, Third Edition continues to take an applied approach to

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analysis using up-to-date Bayesian methods. The authors—all leaders in the statistics community—introduce basic concepts from a data-analytic perspective before presenting advanced methods. Throughout the text, numerous worked examples drawn from real

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applications and research emphasize the use of Bayesian inference in practice.

New to the Third Edition Four new chapters on nonparametric modeling Coverage of weakly informative priors and boundary-avoiding priors

Updated discussion of cross-validation and

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predictive information

criteria Improved

convergence

monitoring and

effective sample size

calculations for

iterative simulation

Presentations of

Hamiltonian Monte

Carlo, variational

Bayes, and

expectation

propagation New and

revised software code

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The book can be used in three different ways. For undergraduate students, it introduces Bayesian inference starting from first principles. For graduate students, the text presents effective current approaches to Bayesian modeling and computation in

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statistics and related fields. For researchers, it provides an assortment of Bayesian methods in applied statistics. Additional materials, including data sets used in the examples, solutions to selected exercises, and software instructions, are available on the

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book's web page.

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

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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

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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*

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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

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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.

Programming

Graphical User

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Interfaces with R introduces each of the major R packages for GUI programming: RGtk2, qtbase, Tcl/Tk, and gWidgets. With examples woven through the text as well as stand-alone demonstrations of simple yet reasonably complete applications, the book features topics especially

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*relevant to
statisticians who aim
to provide a practical
interface to
functionality
implemented in R.*

*The book offers: A
how-to guide for
developing GUIs
within R The
fundamentals for
users with limited
knowledge of
programming within R*

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*and other languages
GUI design for
specific functions or
as learning tools The
accompanying
package,
ProgGUlinR, includes
the complete code for
all examples as well
as functions for
browsing the
examples from the
respective chapters.*

Accessible to

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*seasoned, novice,
and occasional R
users, this book
shows that for many
purposes, adding a
graphical interface to
one's work is not
terribly sophisticated
or time consuming.*

Select Trends

Collected Essays

Beginning R

The Statistical

Programming

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Language
University Of
An Interdisciplinary
Kentucky
Approach

OpenIntro Statistics

The IUCN

Environmental Law
Programme (ELP) is
proud to present this
compilation of
thought pieces from
experts belonging
both to the IUCN
Commission on

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Environmental Law
(CEL) and the IUCN
Environmental Law
Centre, both part of
the ELP -- the world's
leading environmental
law network. The
strong involvement of
CEL members from
North and Southeast
Asia and Oceania in
the symposium that
led to this publication,

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and in its preparation,
is a particularly
pleasing feature of this
initiative. While we
continue to strive
towards the
improvement of the
first generation of
environmental laws
and their effective
implementation, our
rapidly changing
world also requires us

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to excite some critical thinking about the second generation of environmental laws.

The symposium was an attempt to fuel discussion on what we have achieved with the first generation, what we need to do for the second generation, and how we can bridge these

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two generations.

Through this book we have attempted to capture the provoking thoughts raised during the symposium, which recent developments have validated to be pressing concerns for the world. The articles cover a broad range of issues that are of interest, especially to

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the Japanese audience for which the symposium was designed, but also to the broader regional and international community. They examine the issues from the national, regional, and international perspectives, and focus not only on

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State action, but also on the contributions of a regional financial institution, the Asian Development Bank, which has been a staunch supporter of the ELP's capacity building programme in the Asian and Pacific region.

A surprisingly simple way for students to

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master any
subject--based on one
of the world's most
popular online courses
and the bestselling
book A Mind for
Numbers A Mind for
Numbers and its
wildly popular online
companion course
"Learning How to
Learn" have
empowered more than

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two million learners of all ages from around the world to master subjects that they once struggled with. Fans often wish they'd discovered these learning strategies earlier and ask how they can help their kids master these skills as well. Now in this new book for kids

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and teens, the authors reveal how to make the most of time spent studying. We all have the tools to learn what might not seem to come naturally to us at first--the secret is to understand how the brain works so we can unlock its power. This book explains:

- Why sometimes letting

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your mind wander is an important part of the learning process •

How to avoid "rut think" in order to think outside the box

• Why having a poor memory can be a good thing • The value of

metaphors in developing

understanding • A

simple, yet powerful,

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way to stop
procrastinating Filled
with illustrations,
application questions,
and exercises, this
book makes learning
easy and fun.

This book provides a
showcase for "best
practices" in teaching
statistics and research
methods in two- and
four-year colleges and

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universities. A helpful resource for teaching introductory, intermediate, and advanced statistics and/or methods, the book features coverage of: ways to integrate these courses; how to promote ethical conduct; how to create writing intensive

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programs; novel tools
and activities to get
students involved;
strategies for teaching
online courses and
computer applications;
guidance on how to
create and maintain
helpful Web
resources; assessment
advice to help
demonstrate that
students are learning;

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and tips on linking diversity to research methodology. This book appeals to veteran and novice educators and graduate students who teach research methods and/or statistics in psychology and other behavioral sciences and serves as an

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excellent resource in
related faculty
workshops. A CD
with activities that
readers can customize
is included.

Greening the College
Curriculum provides
the tools college and
university faculty
need to meet personal
and institutional goals
for integrating

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environmental issues
into the curriculum.

Leading educators
from a wide range of
fields, including
anthropology, biology,
economics,
geography, history,
literature, journalism,
philosophy, political
science, and religion,
describe their
experience

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introducing environmental issues into their teaching. The book provides: a rationale for including material on the environment in the teaching of the basic concepts of each discipline guidelines for constructing a unit or a full course at the introductory level that

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makes use of
environmental
subjects sample plans
for upper-level
courses a
compendium of
annotated resources,
both print and
nonprint Contributors
to the volume include
David Orr, David G.
Campbell, Lisa
Naughton, Emily

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Young, John Opie,
Holmes Rolston III,
Michael E. Kraft,
Steven Rockefeller,
and others.

A Guide To
Environmental
Teaching In The
Liberal Arts

Bayesian Data
Analysis, Third
Edition

Introduction to
Page 70/198

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Statistical Thinking
Introductory Statistics
Import, Tidy,
Transform, Visualize,
and Model Data
R in Action

*This is a new,
updated version of
Ivor Goodson's
earlier work which
explores A Number
Of Aspects Of The
"Invention" And*

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*Promotion Of So-
Called "traditional"
subjects. It has now
been extended and
has been updated to
include the National
Curriculum.*

*"This book describes
the process of
analyzing data. The
authors have
extensive experience
both managing data*

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*analysts and
conducting their own
data analyses, and
this book is a
distillation of their
experience in a
format that is
applicable to both
practitioners and
managers in data science."*--Leanpub.com.
*Introduction to R for
Social Scientists: A*

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Tidy Programming Approach introduces the Tidy approach to programming in R for social science research to help quantitative researchers develop a modern technical toolbox. The Tidy approach is built around consistent syntax, common

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grammar, and stacked code, which contribute to clear, efficient programming. The authors include hundreds of lines of code to demonstrate a suite of techniques for developing and debugging an efficient social science research

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workflow. To deepen the dedication to teaching Tidy best practices for conducting social science research in R, the authors include numerous examples using real world data including the American National Election Study and the World Indicators

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Data. While no prior experience in R is assumed, readers are expected to be acquainted with common social science research designs and terminology. Whether used as a reference manual or read from cover to cover, readers will be

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equipped with a deeper understanding of R and the Tidyverse, as well as a framework for how best to leverage these powerful tools to write tidy, efficient code for solving problems. To this end, the authors provide many suggestions for additional readings

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and tools to build on the concepts covered. They use all covered techniques in their own work as scholars and practitioners.

Data science has taken the world by storm. Every field of study and area of business has been affected as people increasingly realize

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*the value of the
incredible quantities
of data being
generated. But to
extract value from
those data, one needs
to be tra*

*Sociocultural and
Ecological
Perspectives on
Second Language
Classroom Learning
Learning How to*

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Learn

*Exploring Data in
Python 3*

Language

*Curriculum Design
and Socialisation*

*How to Succeed in
School Without*

*Spending All Your
Time Studying; A*

*Guide for Kids and
Teens*

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Python for
Everybody is
designed to
introduce
students to
programming
and software
development
through the
lens of
exploring
data. You can

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think of the
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Python
programming
language as
your tool to
solve data
problems that
are beyond the
capability of
a spreadsheet.
Python is an
easy to use

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and easy to
learn

programming
language that
is freely
available on
Macintosh,
Windows, or
Linux

computers. So
once you learn
Python you can

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use it for the
rest of your
career without

needing to

purchase any

software. This

book uses the

Python 3

language. The

earlier Python

2 version of

this book is

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titled "Python
for
Informatics:
Exploring Info
rmation". There
are free
downloadable
electronic
copies of this
book in
various
formats and

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supporting
materials for
the book at [ww
w.pythonlearn.
com](http://www.pythonlearn.com). The
course
materials are
available to
you under a
Creative
Commons
License so you

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can adapt them
to teach your
own Python
course.

Deep learning
is often
viewed as the
exclusive
domain of math
PhDs and big
tech
companies. But

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as this hands-
on guide
demonstrates,
programmers
comfortable
with Python
can achieve
impressive
results in
deep learning
with little
math

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background,
small amounts
of data, and
minimal code.

How? With
fastai, the
first library
to provide a
consistent
interface to
the most
frequently

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used deep
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learning
applications.

Authors Jeremy
Howard and
Sylvain
Gugger, the
creators of
fastai, show
you how to
train a model
on a wide

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range of tasks
using fastai
and PyTorch.

You'll also

dive

progressively

further into

deep learning

theory to gain

a complete

understanding

of the

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algorithms
behind the
scenes. Train
models in
computer
vision,
natural
language
processing,
tabular data,
and
collaborative

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filtering
Learn the
latest deep
learning
techniques
that matter
most in
practice
Improve
accuracy,
speed, and
reliability by

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understanding
how deep
learning

models work

Discover how
to turn your
models into
web

applications

Implement deep
learning
algorithms

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from scratch
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Consider the
ethical

implications
of your work

Gain insight
from the

foreword by

PyTorch

cofounder,

Soumith

Chintala

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This book provides a provocative but carefully argued addition to the theory and practice of education in developing countries. The book provides

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an ethical and

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empirical

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justification

for support of

formalistic

teaching in

primary and

secondary

schools in

developing

countries. It

also refutes

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the
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application of
progressive
education
principles to
curriculum and
pre- and in-
service
teacher
education in
such contexts.
The central

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focus of this
book is the
formalistic
teaching
prevalent in
the classrooms
of many
developing
countries.
Formalistic ('teacher-
centred' ,

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'traditional',

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'didactic',

Kentucky
'pedagogic')

teaching is
appropriate in
the many
countries with
revelatory epi
stemologies,
unpopular and
old-fashioned
though these

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methods may
seem in some
western,
especially
Anglophone,
ones.

Formalism has
been the
object of many
failed
progressive
curriculum and

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teacher
University Of
Kentucky
education
reforms in
developing
countries for
some 50 years.
With more than
200 practical
recipes, this
book helps you
perform data
analysis with

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R quickly and efficiently.

The R language provides everything you need to do statistical work, but its structure can be difficult to master.

This

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collection of
concise, task-
oriented

recipes makes
you productive
with R

immediately,
with solutions
ranging from
basic tasks to
input and
output,

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general
statistics,
graphics, and
linear
regression.
Each recipe
addresses a
specific
problem, with
a discussion
that explains
the solution

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and offers insight into how it works.

If you're a beginner, R Cookbook will help get you started. If you're an experienced data programmer, it

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will jog your
memory and
expand your
horizons.

You'll get the
job done
faster and
learn more
about R in the
process.

Create
vectors,

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handle
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variables, and
perform other
basic
functions
Input and
output data
Tackle data
structures
such as
matrices,
lists,

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factors, and
data frames
Work with
probability,
probability
distributions,
and random
variables
Calculate
statistics and
confidence
intervals, and

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perform
statistical
tests Create a
variety of
graphic
displays Build
statistical
models with
linear
regressions
and analysis
of variance

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(ANOVA)

Explore

advanced

statistical

techniques,

such as

finding

clusters in

your data

"Wonderfully

readable, R

Cookbook

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serves not
only as a
solutions
manual of
sorts, but as
a truly
enjoyable way
to explore the
R language—one
practical
example at a
time."—Jeffrey

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Ryan, software
consultant and
R package

author

Introduction

to R for

Social

Scientists

Deep Learning

for Coders

with fastai

and PyTorch

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A Tour of
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Software
Design
Applied
Econometrics
with R
The Art of
Data Science
Group Work in
the English
Language

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**Today, anyone
in a
scientific or
technical
discipline
needs
programming
skills. Python
is an ideal
first
programming**

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**Language, and
Introduction
to Programming
in Python is
the best guide
to learning
it. Princeton
University's
Robert
Sedgewick,
Kevin Wayne,
and Robert**

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**Dondero have
crafted an
accessible, in
terdisciplinary
y introduction
to programming
in Python that
emphasizes
important and
engaging
applications,
not toy**

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problems. The authors supply the tools needed for students to learn that programming is a natural, satisfying, and creative experience. This example-

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**driven guide
focuses on
Python's most
useful
features and
brings
programming to
life for every
student in the
sciences,
engineering,
and computer**

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science.

Coverage

includes Basic

elements of

programming:

variables,

assignment

statements,

built-in data

types,

conditionals,

loops, arrays,

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**and I/O,
including
graphics and
sound
Functions,
modules, and
libraries:
organizing
programs into
components
that can be
independently**

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**debugged,
maintained,
and reused Obj
ect-oriented
programming
and data
abstraction:
objects,
modularity,
encapsulation,
and more**

Algorithms and

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**data
structures:
sort/search
algorithms,
stacks,
queues, and
symbol tables
Examples from
applied math,
physics,
chemistry,
biology, and**

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**computer
science—all
compatible
with Python 2
and 3 Drawing
on their
extensive
classroom
experience,
the authors
provide Q&As,
exercises, and**

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**opportunities
for creative
practice**

**throughout. An
extensive
amount of
supplementary
information is
available at [introcs.cs.prin
ceton.edu/pyth
on](http://introcs.cs.princeton.edu/python). With**

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**source code,
I/O libraries,
solutions to
selected
exercises, and
much more,
this companion
website
empowers
people to use
their own
computers to**

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learn the
material.**

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examines key
areas in post-
compulsory
education
through
topical
discussion,
practical**

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**exercises,
theory,
reading,
analysis,
information,
and examples
of student
work.**

**Introductory
Statistics is
designed for
the one-**

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**semester,
introduction
to statistics
course and is
geared toward
students
majoring in
fields other
than math or
engineering.
This text
assumes**

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**students have
been exposed
to
intermediate
algebra, and
it focuses on
the
applications
of statistical
knowledge
rather than
the theory**

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**behind it. The
foundation of
this textbook
is**

**Collaborative
Statistics, by
Barbara
Illowsky and
Susan Dean.**

**Additional
topics,
examples, and**

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**ample
opportunities
for practice
have been
added to each
chapter. The
development
choices for
this textbook
were made with
the guidance
of many**

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faculty members who are deeply involved in teaching this course. These choices led to innovations in art, terminology, and practical applications,

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all with a
goal of
increasing
relevance and
accessibility
for students.
We strove to
make the
discipline
meaningful, so
that students
can draw from

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**it a working
knowledge that
will enrich
their future
studies and
help them make
sense of the
world around
them. Coverage
and Scope**

Chapter 1

Sampling and

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Data Chapter 2

**Descriptive
Statistics**

Chapter 3

Probability

Topics Chapter

4 Discrete

Random

Variables

Chapter 5

Continuous

Random

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Variables
Chapter 6 The
Normal

Distribution
Chapter 7 The
Central Limit
Theorem

Chapter 8
Confidence
Intervals

Chapter 9
Hypothesis

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Testing with

One Sample

Chapter 10

Hypothesis

Testing with

Two Samples

Chapter 11 The

Chi-Square

Distribution

Chapter 12

Linear

Regression and

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**Correlation
Chapter 13 F
Distribution
and One-Way
ANOVA**

**R is a
language and
environment
for data
analysis and
graphics. It
may be**

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**considered an
implementation
of S, an award-
winning
language
initially -
veloped at
Bell
Laboratories
since the late
1970s. The R
project was**

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**initiated by
Robert
Gentleman and
Ross Ihaka at
the University
of Auckland,
New Zealand,
in the early
1990s, and has
been developed
by an
international**

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**team since
mid-1997.**

**Historically,
econometrician
s have favored
other
computing
environments,
some of which
have fallen by
the wayside,
and also a**

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**variety of
packages with
canned**

**routines. We
believe that R
has great
potential in
econometrics,
both for
research and
for teaching.
There are at**

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least three reasons for this: (1) R is mostly platform independent and runs on Microsoft Windows, the Mac family of operating systems, and

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**various flavors
of Unix/Linux,
and also on**

some more

exotic

platforms. (2)

R is free

software that

can be

downloaded and

installed at

no cost from a

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**family of
mirror sites
around the
globe, the
Comprehensive
R Archive
Network
(CRAN); hence
students can
easily install
it on their
own machines.**

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(3) R is open-source software, so that the full source code is available and can be inspected to understand what it really does, learn from it, and

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**modify and
extend it. We
also like to
think that
platform
independence
and the open-
source
philosophy
make R an
ideal
environment**

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**for
reproducible
econometric
research.**

**Programming
Graphical User
Interfaces in
R**

**Learning
Statistics
with R**

R for Data

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**Science
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Syllabus
Design
Greening the
College
Curriculum
Studies and
Global
Perspectives
of Second
Language**

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Teaching and Learning

This book provides an elementary-level introduction to R, targeting both non-statistician scientists in various fields and students of statistics. The

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main mode of
presentation is
via code
examples with
liberal
commenting of
the code and the
output, from the
computational as
well as the
statistical
viewpoint. Brief
sections

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introduce the statistical methods before they are used. A supplementary R package can be downloaded and contains the data sets. All examples are directly runnable and all graphics in the text are

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generated from
the examples.

The statistical
methodology
covered includes
statistical
standard
distributions,
one- and two-
sample tests with
continuous data,
regression
analysis, one-and

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two-way analysis
of variance,
regression

analysis, analysis
of tabular data,
and sample size
calculations. In
addition, the last
four chapters
contain
introductions to
multiple linear
regression

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analysis, linear
models in

general, logistic
regression, and
survival analysis.

This book crosses
the divide
between

theoreticians and
practitioners by
demonstrating
how curriculum
theories and

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models are
applied in
classrooms today.

It ties together - -
broad

educational
theories such as
progressivism,
essentialism,
perennialism, etc.

- curriculum
models,
characterized as

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learner-centered,
society-centered
or knowledge-
centered. -
exemplars of
curriculum
theories and
models, such as
Reggio Emilia,
Core Knowledge,
the International
Baccalaureate,
etc.

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From a review of
the first edition:

"Modern Data

Science with R...

is rich with

examples and is

guided by a

strong narrative

voice. What's

more, it presents

an organizing

framework that

makes a

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convincing
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argument that
data science is a
course distinct
from applied
statistics" (The
American
Statistician).
Modern Data
Science with R is
a comprehensive
data science
textbook for

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University Of
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undergraduates
that incorporates
statistical and
computational
thinking to solve
real-world data
problems. Rather
than focus

exclusively on
case studies or
programming
syntax, this book
illustrates how

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statistical
programming in
the state-of-the-
art R/RStudio
computing
environment can
be leveraged to
extract
meaningful
information from
a variety of data
in the service of
addressing

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compelling questions. The second edition is updated to reflect the growing influence of the tidyverse set of packages. All code in the book has been revised and styled to be more readable and easier to

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understand. New
functionality from
packages like sf,

purrr,

tidymodels, and

tidytext is now

integrated into

the text. All

chapters have

been revised, and

several have been

split, re-

organized, or re-

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imagined to meet
the shifting
landscape of best
practice.

To write an
accomplished
program in the
DATA step of
SAS®,
programmers
must understand
programming
logic and know

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how to implement
and even create
their own
programming
algorithm.

Handbook of
SAS® DATA Step
Programming
shows readers
how best to
manage and
manipulate data
by using the

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DATA step. The book helps novices avoid common mistakes resulting from a lack of understanding fundamental and unique SAS programming concepts. It explains that learning syntax

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does not solve all problems; rather, a thorough comprehension of SAS processing is needed for successful programming. The author also guides readers through a programming task. In most of

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the examples, the author first presents

strategies and steps for solving the problem, then offers a solution, and finally gives a more detailed explanation of the solution.

Understanding the DATA steps,

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particularly the
program data
vector (PDV), is
critical to proper
data
manipulation and
management in
SAS. This book
helps SAS
programmers
thoroughly grasp
the concept of
DATA step

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processing and
write accurate
programs in the
DATA step.

Numerous
supporting
materials,
including data
sets and
programs used in
the text, are
available on the
book's CRC Press

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Proven Recipes
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Statistics, and
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Introduction to
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Python

Handbook of
SAS® DATA Step

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Programming
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1976: January-
June

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major types of
syllabuses in language
course development
and provides readers
with the theoretical
foundations and
practical aspects of

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implementing
syllabuses for use in
language teaching
programs.

R Programming for
Data Science Lulu.com
Summary R in Action,
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presents both the R
language and the
examples that make it
so useful for business
developers. Focusing

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on practical solutions, the book offers a crash course in statistics and covers elegant methods for dealing with messy and incomplete data that are difficult to analyze using traditional methods. You'll also master R's extensive graphical capabilities for exploring and

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the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Business pros and researchers thrive on data, and R speaks the language of data analysis. R is a powerful programming language for statistical computing. Unlike

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general-purpose tools, R provides thousands of modules for solving just about any data-crunching or presentation challenge you're likely to face. R runs on all important platforms and is used by thousands of major corporations and institutions worldwide.

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Action, Second Edition teaches you how to use the R language by presenting examples relevant to scientific, technical, and business developers. Focusing on practical solutions, the book offers a crash course in statistics, including elegant methods for dealing with messy and

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incomplete data. You'll also master R's extensive graphical capabilities for exploring and presenting data visually. And this expanded second edition includes new chapters on forecasting, data mining, and dynamic report writing. What's

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Inside Complete R
language tutorial Using
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R to manage, analyze,
and visualize data

Techniques for
debugging programs
and creating packages
OOP in R Over 160

graphs About the

Author Dr. Rob

Kabacoff is a seasoned
researcher and teacher
who specializes in data

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analysis. He also maintains the popular Quick-R website at statmethods.net. Table of Contents

PART 1

GETTING STARTED

Introduction to R

Creating a dataset

Getting started with graphs

Basic data management

Advanced data management

PART 2

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BASIC METHODS

Basic graphs Basic

statistics **PART 3**

INTERMEDIATE

METHODS

Regression Analysis of

variance Power analysis

Intermediate graphs

Resampling statistics

and bootstrapping

PART 4 ADVANCED

METHODS

Generalized linear

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models Principal

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components and factor

analysis Time series

Cluster analysis

Classification

Advanced methods for

missing data PART 5

EXPANDING YOUR

SKILLS Advanced

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Advanced

programming Creating

a package Creating

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dynamic reports
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traditional and
emerging
fields of study
to consider
consider what
a grounded**

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**definition of
quantitative
and qualitative
research in the
Digital
Humanities
(DH) might
mean; which
areas DH can
fruitfully draw
on in order to
foster and**

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**develop that
understanding
; where we can
see those
methods
applied; and
what the
future
directions of
research
methods in
Digital**

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**Humanities
might look
like. Schuster
and Dunn map
a wide-ranging
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methodology
by drawing on
both
'traditional'
fields of DH
study such as**

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museums and**

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and innovative
areas in**

**research
production,
such as**

**knowledge and
technology,
digital culture**

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United States,
Europe and**

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essential
reading for
anyone who
teaches,
researches or**

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