

DS002.01

how are you feeling? use as many words as you like:

<https://pollev.com/douglasgoodw618>

DS002.01 Intro to Data Science 002

key	value
Class	DS002: Intro to Data Science
Class hours	MW 11:00-12:15
Instructor	Douglas Goodwin Visiting Assistant Professor in Media Studies, Scripps College Lang 228 dgoodwin@scrippscollege.edu
Office Hours	MW 1:00-3:00pm
Textbook	Data Science from Scratch, 2nd Edition
Classroom	Steele 229, +Zoom

Intro

1. Description

2. Me

3. Coordinates

4. Materials

5. Commitment

6. Next week

Description

This course is the second part of a two-semester introduction to computer programming and data science. Students will explore, using Python and other tools the nuances of gathering, visualizing and analyzing data to gain insight and intuition with data. Students will be introduced to various data manipulation/analysis, and statistical methods by building their own code from scratch. They will also consider the ethical implications and limitations of creating models of data.

Me

1. Named for an experimental psychologist / statistician
2. Built a computer before age 10
3. Wrote a new novel by Jane Austen
4. Handled LA County's transit data fro Google & Apple
5. Designed A/B ad campaigns for a year

**SEE HOW A COMPUTER ADDS • SUBTRACTS • SHIFTS • MULTIPLIES
MEMORIZES • COMPARES • ANSWERS RIDDLES • PROCESSES DATA
DOES THE MISSILE COUNTDOWN • SATELLITE RE-ENTRY • MISSILE
CHECKOUT • SOLVES BANK ACCOUNT PROBLEMS – EVEN TELLS FORTUNES**

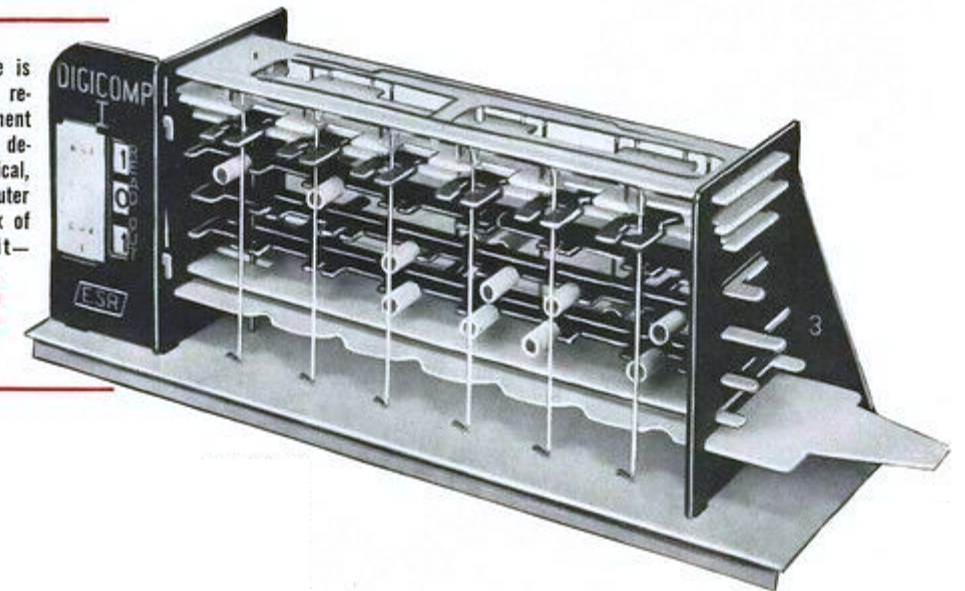
DIGI-COMP*1

FIRST TABLE-TOP OPERATING DIGITAL COMPUTER

■ This little marvel allows you for the first time to see logic in action, see and understand the operations hidden in the circuits of a giant computer as it visually and mechanically performs tasks of a giant electronic brain. It is a binary computer *so simple* that YOU can program it to answer YOUR questions. Its only limits are the limits of your own imagination and creativity.

In this age of computers there is nothing that approaches the remarkable scientific accomplishment by the computer engineers who developed DIGI-COMP, a mechanical, easily-understood digital computer for less than the price of a box of typewriter paper. Think of it—

ONLY \$5⁹⁵



you?

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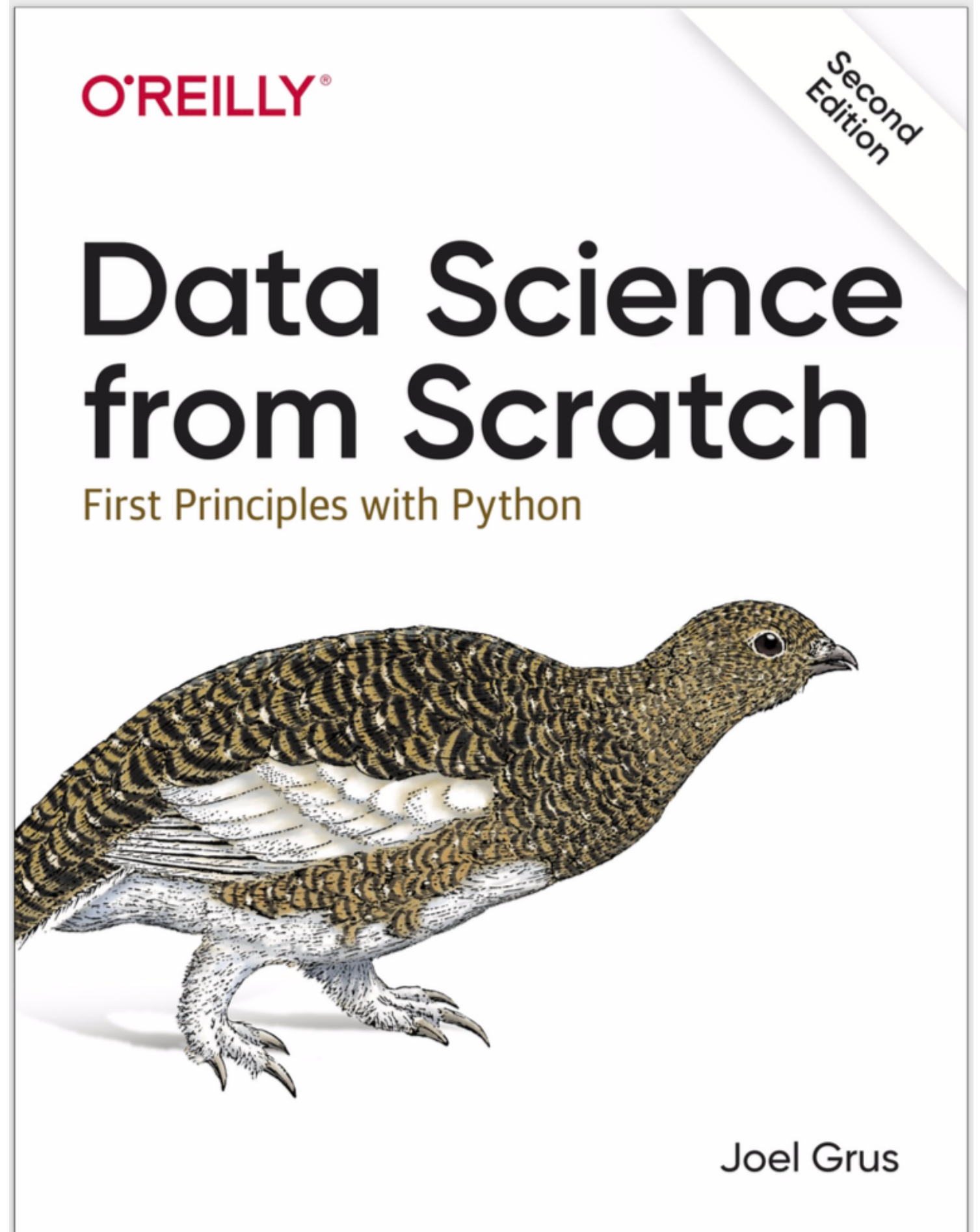
Materials

key	value
Textbook	Data Science from Scratch, 2nd Edition
Sourcecode	GitHub or GitLab
Deepnote	You wil get an invitation to join the class
Discord	Scripps_DS002

Textbook


- Get a crash course in Python
- Learn the basics of linear algebra, statistics, and probability—and how and when they're used in data science
- Collect, explore, clean, munge, and manipulate data
- Dive into the fundamentals of machine learning
- Implement models such as k-nearest neighbors, Naïve Bayes, linear and logistic regression, decision trees, neural networks, and clustering
- Explore recommender systems, natural language processing, network analysis, MapReduce, and databases.

Waiting on your copy? Here are the [first two chapters](#)



GitHub


You will need to setup an online Git repository. I'm using GitHub in my examples.




Search or jump to...


/

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 scrippscollege / DS_002


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<> Code


 Issues


 Pull requests


 Actions


 Projects

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 0 tags


Go to file







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Code ▾

 douglasgoodwin stripped down the book

47adeb4 8 minutes ago

 14 commits

 data	reorg and cleanup	2 hours ago
 ppt	lecture and text	11 minutes ago
 text	stripped down the book	8 minutes ago
 .DS_Store	lecture and text	11 minutes ago
 README.md	cleanup	2 hours ago
 linear_algebra.py	demonstrate editing code in Deepnote	2 hours ago

Discord

<https://discord.gg/gtMVkAMV>

(This link will self-destruct in 7 days)

Deepnote

Let's try it out!