

Exercises in Programming Style

The first edition of Exercises in Programming Style was honored as an ACM Notable Book and praised as "The best programming book of the decade." This new edition retains the same presentation but has been upgraded to Python 3, and there is a new section on neural network styles. Using a simple computational task (term frequency) to illustrate different programming styles, Exercises in Programming Style helps readers understand the various ways of writing programs and designing systems. It is designed to be used in conjunction with code provided on an online repository. The book complements and explains the raw code in a way that is accessible to anyone who regularly practices the art of programming. The book can also be used in advanced programming courses in computer science and software engineering programs. The book contains 40 different styles for writing the term frequency task. The styles are grouped into ten categories: historical, basic, function composition, objects and object interactions, reflection and metaprogramming, adversity, data-centric, concurrency, interactivity, and neural networks. The author states the constraints in each style and explains the example programs. Each chapter first presents the constraints of the style, next shows an example program, and then gives a detailed explanation of the code. Most chapters also have sections focusing on the use of the style in systems design as well as sections describing the historical context in which the programming style emerged.

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59,00 €

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Lieferfrist: bis zu 10 Tage

Artikelnummer: 9780367350208

Medium: Buch

ISBN: 978-0-367-35020-8

Verlag: Chapman and Hall/CRC

Erscheinungstermin: 27.07.2020

Sprache(n): Englisch

Auflage: 2. Auflage 2020

Produktform: Kartoniert

Gewicht: 550 g

Seiten: 360

Format (B x H): 156 x 234 mm

