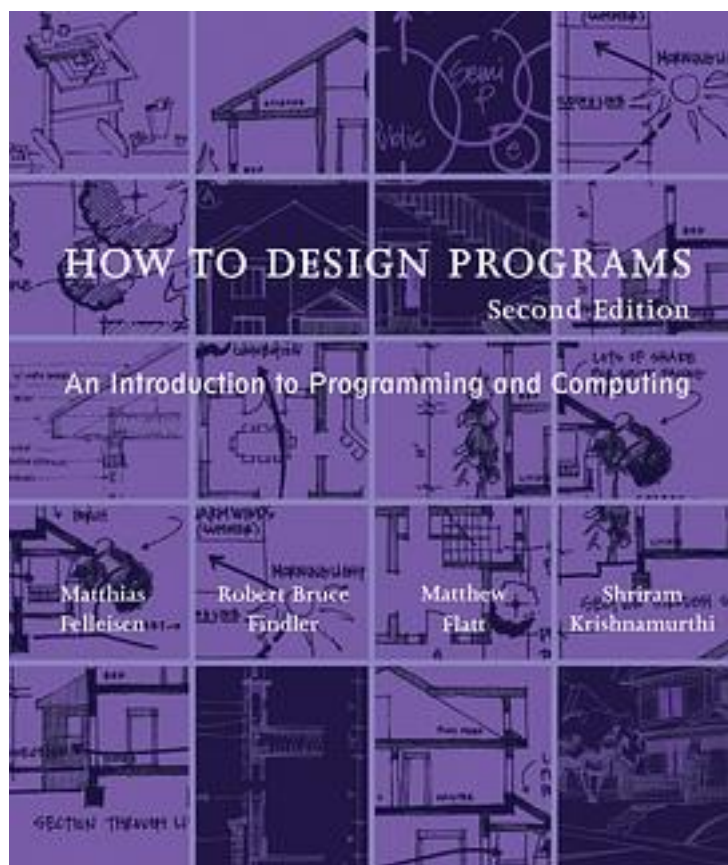


# How to Design Programs, 2nd Edition



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A completely revised edition, offering new design recipes for interactive programs and support for images as plain values, testing, event-driven programming, and even distributed programming.

This introduction to programming places computer science at the core of a liberal arts

education. Unlike other introductory books, it focuses on the program design process, presenting program design guidelines that show the reader how to analyze a problem statement, how to formulate concise goals, how to make up examples, how to develop an outline of the solution, how to finish the program, and how to test it. Because learning to design programs is about the study of principles and the acquisition of transferable skills, the text does not use an off-the-shelf industrial language but presents a tailor-made teaching language. For the same reason, it offers DrRacket, a programming environment for novices that supports playful, feedback-oriented learning. The environment grows with readers as they master the material in the book until it supports a full-fledged language for the whole spectrum of programming tasks.

This second edition has been completely revised. While the book continues to teach a systematic approach to program design, the second edition introduces different design recipes for interactive programs with graphical interfaces and batch programs. It also enriches its design recipes for functions with numerous new hints. Finally, the teaching languages and their IDE now come with support for images as plain values, testing, event-driven programming, and even distributed programming.

作者介绍:

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标签

编程

Scheme

函数式

计算机

Racket

语言

计算机科学

编程艺术

## 评论

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## 书评

在一个雅典朋友家玩，她有个小妹妹，今年初一，英语不错，然后就想教她写程序。下个DrScheme，打开htdp的网站，照着书慢慢儿跟她讲，没过半晚上，她就已经会define程序了。

这本书写得很nice，如果有人讲的话，小朋友是看得懂的。但是需要有小学数学的基础，否则的话开始的练...

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前言中的艾伦.佩利的警句给我印象很深:"教儿童编程有悖于现代教育学. 制定计划,使思路条理化,注重细节,严格自律有何乐趣?"  
佩利是对的.尽管书中给出了很多学编程的好处,但是在方向上, 儿童的那种天马行空的想象,没有什么条条框框的思路,是很珍贵的. 话说回来,对于那些长大了...

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这本是学校的教科书。08年废掉JAVA选择Scheme，然后确认它作为教材。重要性不言而喻。无论你入学背景再牛，水平再高，学校还是会要求你上这课，只是有不同级别而已。HtDp的起点明显要比SICP低。不过这本书的风格很好，真正的 Step By Step，很多时候作者都是很明确他的目的...

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这本书的优点前面豆友已经说得很多了，上手容易，step by step等等。其实真得推荐大学能够把这本书做为编程语言的基础，尤其是非计算机专业而以后却又需要进行专业上的计算程序开发的人员。很多人都把这本书和SICP做对比，大概翻了一遍SICP，确实觉得这本书略有啰嗦的嫌疑...

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从第一章开始，我就喜欢上了这本书。简单清晰的Racket语法没花什么时间就上手了。作者从最简单的加减乘除开始一步一步深入，讲述函数的用处、如何定义函数、再到常变量的用处和“魔法数字”的害处。这本书不但讲述程序本身，还告诉你怎样将真实的世界抽象成一组有限状态机(FSM)...

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读之前多次听说其大名，只因已读过SICP，所以技术上不做评价，但其中循循善诱的风格值得称赞，如果我没读SICP，当按照它的指示，用它推荐的软件，一个一个做习题。

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亲戚家小孩要学计算机，问我当初怎么自学的。就给他家孩子推荐了这本书。想想这本书真是改变了我的命运了。对编程一窍不通的时候接触过c语言。那时候记for while switch 咋写对，区分int float char，还有什么&\*之类奇怪的符号，感觉又难又枯燥，想着考完试可再一辈子不...

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这本书伴随着我自学编程开始，大概半年时间左右，反反复复，一直没有完整的阅读下来。直到上个暑假，我大概花了大半个月的时间，终于把它从头到尾完整的刷了一遍。同一本书，在不同的时间段，给我的感悟，确实是有很大不同的。一开始读这本书，是在知乎上看到有...

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程序设计方法 作者: 傅雷森(Matthias Felleisen) 副标题: 国外著名高等院校信息科学与技术优秀教材 isbn: 7115115567 页数: 460 译者: 黄林鹏 定价: 49.0 出版社: 人民邮电出版社 装帧: 平装 出版年: 2003-12 书名: 程序设计方法

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