	HOW TO DESIGN PROGRAMS ! PREFACE  K-12  +Unker until it works  vs	
25'0		
منسوسيين		
2 21 X X	systematic thought, planning, understanding	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	good program comparable to time tested poems	
	satisfaction comes with creative design	
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	SYSTEMATIC PROGRAM DESIGN	ere Committee and the committe
1	which functions are needed	
4 8 2 3	how to build them - from basine ingredients	
	2 concepts	inspiration:
	· design recipes	michael jackson
	· iterative refinement	creating cobol programs
		-daniel briadman
		recursion
	design recipes (apply to)	- robert hamper
	- complete programs	type theory
	- individual functions	- daniel jackson
•		software design
	citerative refinement	
	- stripping away all inessential details	
	- finding a solution for core problem	

## DRRACKET AND THE TEACHING LANGUAGES

using racket for study of principles acquisition of transferable skills - gaming - control of telescopic arrays

## SKILLS THAT TRANSFER

- analyze problem precision - extract & express its essense description try examples focus - make outlines through analysis attention to detail - evaluate results vs starget

- make revisions (iterative development process)

lets do analysis

## THIS BOOK AND ITS PARTS

how to program

the nature of numbers fixed size data generative recursion begining student language cost of computation arbitratily large data accumulators quote, unquote moving on abstraction

Scope & abstraction intertwined data