Inside Lotus 1-2-3 Macros, Revised and Expanded is a complete reference to 1-2-3 macros by the two leading authorities on the subject—Dick Ridington, the Resources Editor at Lotus Magazine, and Scott Tucker, the Director of Product Design for Lotus Development Corporation Spreadsheet Products. Their in-depth discussion of macros covers Release 2.2’s new macro commands and features as well as those in the earlier 2 and 2.01 releases. Users at all levels will benefit from the authors’ inside view of Lotus 1-2-3 macros. The book’s comprehensive tutorials move progressively from simple keystroke and ready-to-run macros to topics in advanced macro design and development. The disk incorporates all the examples, tips, and techniques discussed in the book so that you can use macros to your best advantage instantly. Learn macro design with this book and time-saving utility disk from the Lotus 1-2-3 insiders.

SYSTEM REQUIREMENTS:
Lotus 1-2-3 Release 2, 2.01, or 2.2, and the hardware specified by Lotus Development Corporation for the se Releases.

CONTENTS

Foreword xvi
Introduction xx
Prerequisites xx

Section I Introduction to Macros 1

Chapter 1 An Introduction to Macros 3
Overview 3
An Overview of Macros 3
Why Use Macros? 3
Types of Macros 5
The One Minute Macro 7
A Guide to Using the Book 9
Tools 10
How to Find Definitions of Words You Don’t Understand 11
Key Name Conventions 11
Next 12

Section II Keystroke Macros 13

Chapter 2 Keystroke Macros 15
Overview 15
Keystroke Macros: The Quick Course 16
Macro Examples 23
Keystroke Macros: The Detailed Course 35
Three Steps for Writing a Macro 36
Three Simple Types of Macros 36

Type 1: Macros That Enter Labels 36
What To Do If the Macro Did Not Work 40
Applications 41
Summary 42

Type 2: Macros That Enter Values and Formulas 42
Label Prefixes and Macros 45
Macros That Enter Labels Beginning with a Number 46
Writing Formulas with Macros 48
Optional Exercise 48
Summary 50

Type 3: Macros That Enter 1-2-3 Commands 51
What To Do If the Macro Did Not Work 53
Summary 54
Two Ways to Revise Macros 54
Multiple Line Macros 55
How Multi-Line Macros Work 58
Multi-Line Macros as Newspapers 58
### Flow of Control
- Letting 1-2-3 Write Your Macros
- How To Build on Existing Macros
- Adding Style to Your Macros
  - Macro Labels Can Be Any Length
  - Macro Documentation
- Assigning Range Names to Macros the Quick Way
- Where To Place Your Macros on the Worksheet
- How To Reduce the Screen Hopping
- Speeding Up Screen Switching with Range Names
- Eliminating the Screen Switching with Worksheet Windows
- Testing Your Macros

### Chapter 3 Using Special Key Names
- Compatibility
- Applying Key Names To Write Formulas That Point
  - Saving Time When You Write Macros
- Application

### Chapter 4 The { ? } Interactive Command
- The { ? } Interactive Command and the Return Key
- Data Entry with the { ? } Interactive Command
- Macro Testing with the { ? } Interactive Command
- Applications

### Chapter 5 Macro Libraries
- Release 2 and 2.01 Macro Libraries
- An Organized Macro Library
  - Create Separate Macro Library Worksheets
  - Segment Your Macro Library
  - Formula Libraries
  - Release 2.2 Macro Libraries
  - Two Methods of Attaching the Macro Library Manager
- A Quick Tutorial
- The Macro Library Manager Menu
- Macro Library Manager Tips

### Chapter 6 Macro Automation Features
- Automated Data Entry
- Automatic Macro Activation
- Automatic Worksheet Loading
- Automatically Loading Macro Libraries in Release 2.2

### Chapter 7 A Prologue to More Advanced Macros
- An Introduction to Loops
  - Using Range Names
  - Style Guidelines for Range Names in Macros
- Another Sample Loop
- Terminating a Macro with a Command
- Sample Applications of `?` Command

### Chapter 8 Debugging Your Macros
- Prescriptions for Common Macro Problems
- 1-2-3 Beeps and the Macro Does Not Run
- The Macro Doesn't Run; 1-2-3 Doesn't Beep
- The Macro-Name Letter Appears in the Control Panel or on the Worksheet
- Characters Appear in the Control Panel Instead of on the Worksheet
- Embedded Spaces in a Macro
- Assumptions in Macros
- Underlying Problems with Range Names

### Chapter 9 Dynamic Code: Self-Modifying Macros
- Creating Variables Through Blank Spaces
- Creating Variables Through String Manipulation
- Writing the String Formula
- Numbers in Macro String Formulas
- String Formula Limitations

### Section III Macro Programming
- Introduction to Macro Programming
Chapter 11  Controlling the Screen
Overview and Introduction to New Concepts
{Beep}
{Bordersoff}
{Borderson}
{Frameoff}
{Frameon}
{Graphoff}
{Graphon}
{Indicate}
{Paneloff}
{Panelon}
{Windowsoff}
{Windowson}

Chapter 12  Allowing Keyboard Interaction
Overview and Introduction to New Concepts
{Break}
{Breakoff}
{Breakon}
{Get}
{Getlabel}
{Getnumber}
{Look}
{Menubranch}
{Menucall}
{Wa}
{?} (Interactive Command)

Chapter 13  Controlling Program Flow
Overview and Introduction to New Concepts
{Subroutine Call}
{Branch}
{Define}
{Dispatch}
{For}
{Forbreak}
{If}
{Ifkey}
{Onerror}
{Quit}
{Restart}
{Return}
{System}

Chapter 14  Manipulating Data
Overview and Introduction to New Concepts
{Blank}
{Contents}
{Let}
{Put}
{Recalc}
{Recalccol}

Chapter 15  File Manipulation
Overview and Introduction to New Concepts
{Close}
{Filesize}
{Getpos}
{Open}
{Read}
{Readln}
{Setpos}
{Write}
{Writeln}

Chapter 16  Accessing Add-ins
Overview and Introduction to New Concepts
{App1}, {App2}, {App3}, {App4}

Chapter 17  @ Functions Commonly Used in Macros
Overview and Introduction to New Concepts
Special Functions
@cell
@cellpointer
@vlookup
@hlookup
Chapter 18  Enhancing Existing Macros
Using the Advanced Macro Commands
Macros for 1-2-3 Release 2.2
Next

Chapter 19  Writing Your Own Commands
Adding a Command to Vary the Width of a Range of Columns
Adding a Command to Copy a Range of Relative Formulas As Absolute
Variation on the Macro
Abbreviating Commands to Freeze /Unfreeze the Screen
Abbreviating Commands to Prompt for Input
Simplifying the { for} Command
Command-Enhancement Summary
Next

Chapter 20  Release 1A Versus Release 2 Advanced Macro Commands
Summary
Next

Section IV Advanced Techniques

Chapter 21  Introduction to the Advanced Techniques
When To Use Customized Macros
An Overview of the Content of an Application
User Interaction
Processing Data
Output
An Overview of the Processes for Developing an Application
Application Planning
Development Tools

Chapter 22  Managing User Input
Single Characters
Using {get}
Case Sensitivity
Disabling the Keyboard
Capturing Special Keys
Implementing a Key Table
Turning Off the Slash Key
Displaying Your Own Menu at the "" Displaying Your Own Help Screen at F1-A Release 2.2 Technique
Be Careful of Curly Braces
Generalizing the Curly Brace Test
Embedding the Test in a Formula
Accepting Label and Number Input
Using {getlabel} To Manage Label Input
Using {getnumber} Custom Prompts with Defaults
Using{?} To Accept Data Entry
Using Range Input
Getting Help During Range Input
Database Records
Defining and Redefining Ranges
Method 1: Helping the User Redefine a Range
Method 2: Using a Macro to Redefine the Range
Associated Ranges
Bounds Checking and Validity Checking
Bounds Checking
Testing for Acceptable Entries
Summary
Lotus 1-2-3 was an early spreadsheet application available for MS-DOS. It became extremely popular in the late 1980s, displacing the former leader VisiCalc. Lotus had difficulties adapting 1-2-3 to the Windows environment, and was overtaken by Microsoft Excel. Spreadsheet functionality was also included in Lotus Symphony. Later versions were included in Lotus SmartSuite. Wanted: Additional Ports of Lotus 1-2-3, and Lotus 1-2-3 97 Edition (first 32-bit Windows version).
Lotus 1-2-3 is a spreadsheet program from Lotus Software (now part of IBM). It was the IBM PC's first "killer application"; its huge popularity in the mid-1980s contributed significantly to the success of the IBM PC in the corporate environment.

Version 2 introduced macros with syntax and commands similar in complexity to an advanced BASIC interpreter, as well as string variable expressions. Later versions supported multiple worksheets, and were written in C. There is also a version of 1-2-3 for the HP 200LX, a palmtop released by Hewlett-Packard.

So the title of this whole guide is reflected upon the first phase and one of the few reasons why I cannot hit phase 2 on my own even though I have the damage to. Before we get into that, there's a few noticeable things as soon as you enter. Phase 1. So right off the bat the first thing you'll notice is the rotating lazer at the center. This lazer will kill you in one hit, and the lazer is actually quite fair as it will kill you in one hit even if you're a Paladin. This lazer first spins counter-clockwise but over time may speed up or suddenly dec