

All About Applesoft

Enhanced Edition

Produced by:

Brian Wiser & Bill Martens



Apple PugetSound Program Library Exchange

All About Applesoft: Enhanced Edition

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2nd Edition: May 2023

Paperback ISBN: 978-1-387-89391-1

Hardback ISBN: 978-1-71657-352-1

ACKNOWLEDGEMENTS

First and foremost, we would like to thank the original contributors:

Darrell Aldrich, Ron Aldrich, Chris Anson, Cornelis Bongers, Charles Boody, Mark Capella, Robert C. Clardy, John Crossley, Val J. Golding, Eric Goez, P. Hempfner, Jim Hilger, Bob Huelsdonk, Wes Huntress, Kevin Killion, Charles Kluepfel, Neil Konzen, Sau-Hai Lam, Dr. David A. Lingwood, C.K. Mesztenyi, Peter Meyer, Ted W. Miller, Jim Morrissey, Craig Peterson, Dr. Myrna Traver MD, Kyle Wadsten, Roger Wagner, David W. Walker, Randy Wigginton, Don Williams, and Don Worth.

Special thanks to Steve Wozniak – just because. Thanks to everyone who joined the A.P.P.L.E. user group, read *Call-A.P.P.L.E.* magazine, made contributions, and supported our endeavours.

Cartoons by Jim Hilger and modified by Brian Wiser.

The Cover and Book were designed by Brian Wiser.

PRODUCTION

Brian Wiser → Design, Art, Layout, Editing, Writing "Peeks, Pokes & Calls" Chapter

Bill Martens → Scanning, Editing, Writing "Applesoft Memory Locations" Chapter

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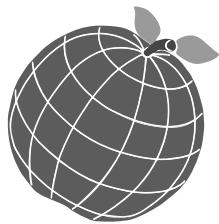
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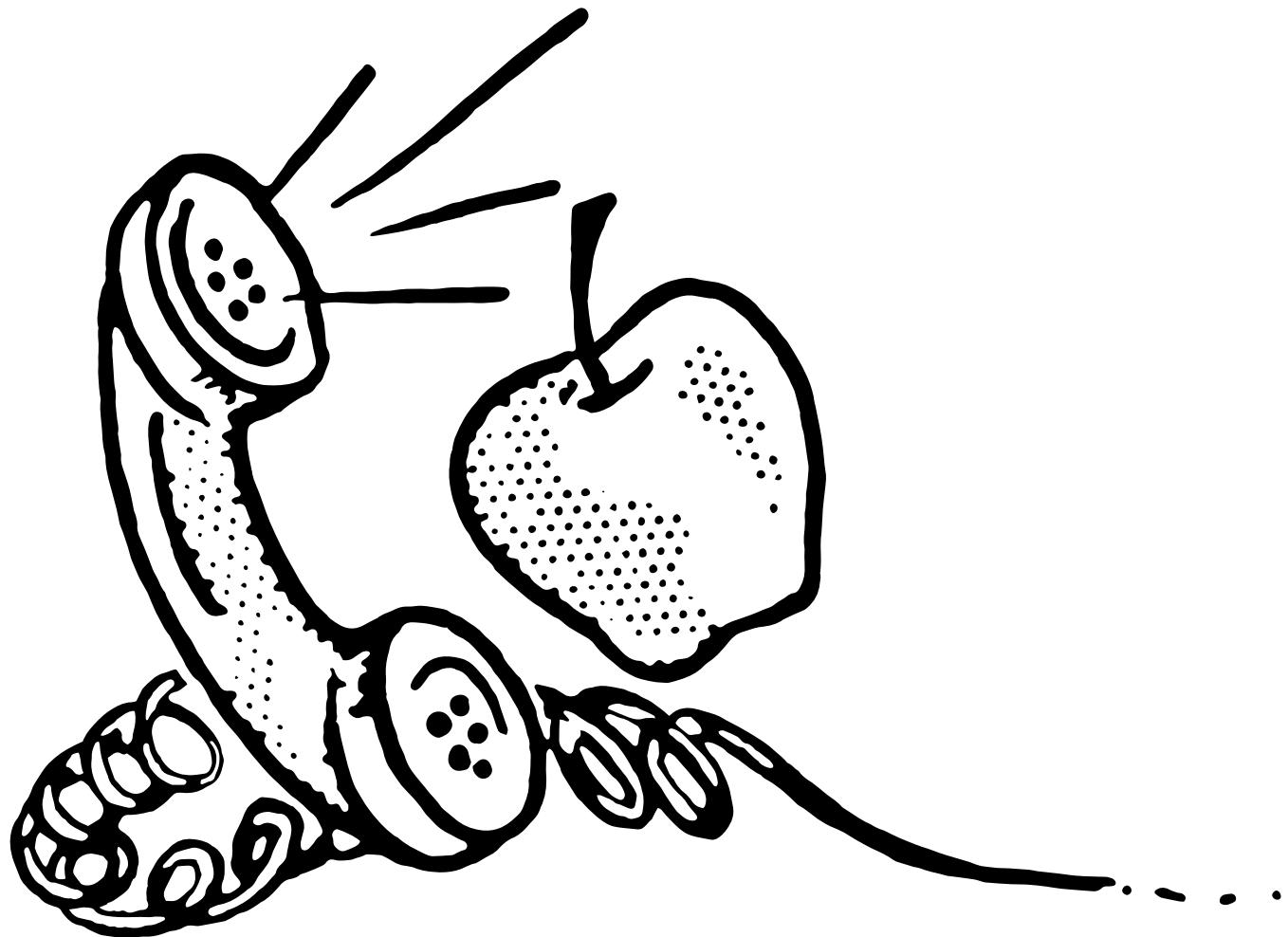
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Glossary

Now you'll always know the correct definitions for Apple, Nibble, VAL, and WOZ 257



INTRODUCTION

by Bill Martens

A Beginning in Applesoft

Welcome to the updated first book in the A.P.P.L.E. In Depth series – *All About Applesoft: Enhanced Edition*. Brian Wiser and I wanted to update this book to celebrate the 40th anniversary of the Apple Pugetsound Program Library Exchange (A.P.P.L.E.) user group, founded in 1978.

In 1981 when *All About Applesoft* was first produced and I was still a young programmer, the amount of information about Apple's Applesoft BASIC and the Apple II itself were in short supply. Most programmers at the time, including me, would scrape the issues of *Call-A.P.P.L.E.* magazine for those golden nuggets of information each month, sharing anything we gleaned from its pages with other programmers. The magazine helped us expand our horizons even further with our Applesoft programming.

Most of the articles at that time were written by a select few people who are now legends of the Apple II programming world. It is from their desks, computers, and creativity from which came *All About Applesoft*. This book is a gold mine of information on everything from useful memory locations in the Apple II, to the usage of a variety of short utility programs, or a PEEK or a CALL to enhance your own programs. Relevant articles were gathered from the pages of *Call-A.P.P.L.E.* magazine, producing one of the most educational and useful books for the Apple II computer.

There are numerous new items in this third edition of *All About Applesoft* which were not in previous editions. These include a handy list of Peeks, Pokes and Calls compiled by Brian Wiser when he was a young programmer, a new glossary, and a command reference for Applesoft BASIC, DOS 3.3 and ProDOS. Ads for non-existent companies have been removed and cartoons from early *Call-A.P.P.L.E.* magazines have been added. Additionally, a host of corrections included in the second edition as separate errata, have been integrated into the newly-reformatted text. Lastly, a disk image of all the programs can be downloaded from our A.P.P.L.E. website: www.callapple.org.

It is our sincere hope that the materials in this book will benefit and encourage Apple II programmers of all generations.

\$10

About the Contents

The first section "Applesoft From Bottom to Top" will take you through the entire realm of Applesoft as seen through the eyes of many of the early programmers inside Apple Computer, Inc. like Randy Wigginton and Apple Pugetsound Program Library Exchange programmers like Val Golding and Don Williams, as well as some of the many everyday Apple II users such a Professor Sau-Hai Lam.

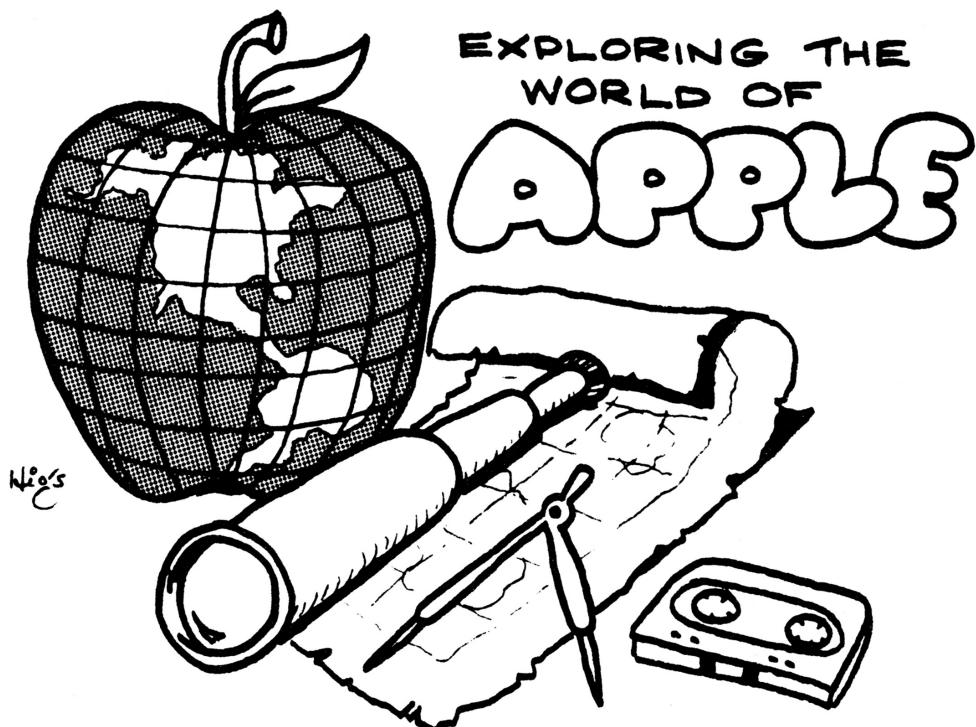
The handling of real mathematical variables, floating point mathematics, and a variety of conversion routines on the Apple II computer is discussed in "Real Variable Study." Eric Goez introduces us to the "Applesoft Internal Entry Points" and tears into the useful memory routines in the Apple II which handle data input and output as well as the graphics routines.

Bob Huelsdonk takes you inside the concepts of library or as he calls it, Base Program creation and the reusing of existing code rather than rewriting your programs every time. Other authors including Charles Boody, David Walker, Val Golding, Charles Kluepfel, Craig Peterson, Peter Meyer, Cornelis Bongers, and TW Miller give us a bevy of Applesoft-based utility programs and information which expand the usability of our Apple II computers.

Dr. David A. Lingwood gives users the ability to expand and structure their Applesoft usage through his "Amplifying Applesoft" article, making it not only useful but also readable by others.

Robert Clardy and Kevin Killion take us through the Amersand hook usage showing us how to change the functionality of certain Applesoft commands as well as the RESET key.

Closing out the book is a list of commands for BASIC, DOS 3.3, and ProDOS, memory allocations and locations, an extensive list of Peeks, Pokes and Calls, and ultimately a glossary.



In Depth Charge

by Val J. Golding

written in 1981

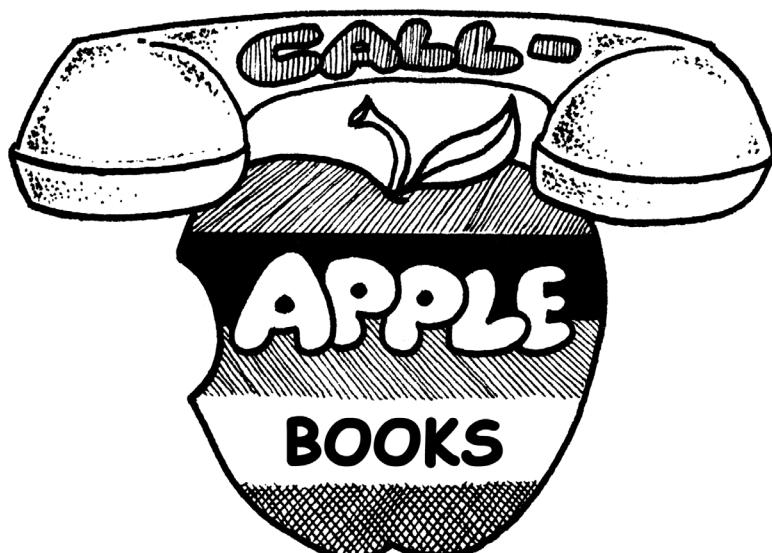
Welcome to *All About Applesoft* the premier issue of *Call-A.P.P.L.E. In Depth* – a brand new concept in Apple II publications. Much planning and effort went into its creation, so that our members and readers can learn and enjoy the wealth of programming material.

Call-A.P.P.L.E. In Depth has many distinctive features that set it aside from *Call-A.P.P.L.E.* and other publications in the field. Each issue will be topical, with all material relating, directly or indirectly, to a single aspect of Apple II computing. Material used will consist of new material, revised and/or expanded material, and, when a previously published article has a particular significance, some reprinted material.

Feature material, while relating to a single subject, will nonetheless cover the widest possible range of interests, so that beginners may find their first glimmer of real understanding of the Apple II, while some material will be of a high technical level to satisfy the cravings of advanced programmer types. The midrange will be spoken for with the inclusion of handy utilities, serious and lighter applications, programming techniques, reviews, etc.

These features allow much greater freedom in such areas as story length. If appropriate, stories will run that would have had to be serialized in *Call-A.P.P.L.E.* Our indefinite lead time will allow the inclusion of a last minute feature. This issue of *Call-A.P.P.L.E. In Depth* will contain about as much editorial material as three or four issues of *Call-A.P.P.L.E.* magazine. It is printed on the highest quality book stock for better durability.

The second issue of *Call-A.P.P.L.E. In Depth* will cover Pascal, and our Pascal Editor, Ron deGroat will handle a large portion of the editing chores. It is planned for publication in late 1981. Your comments and suggestions in care of the editorial office will be appreciated.



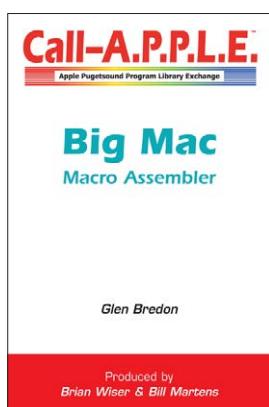
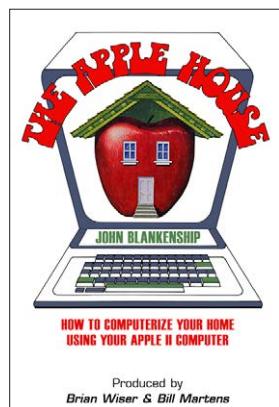
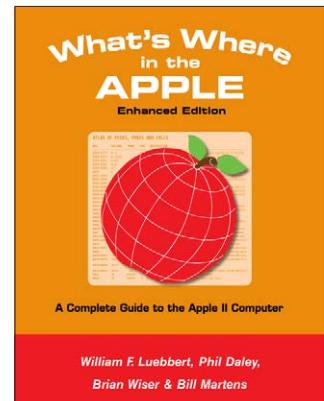
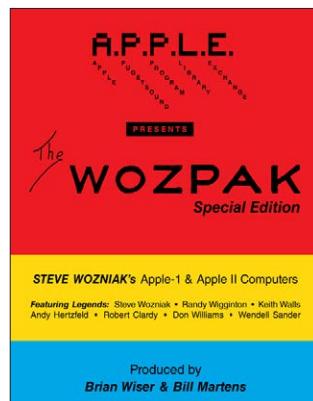
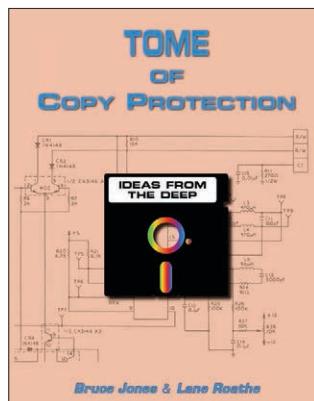
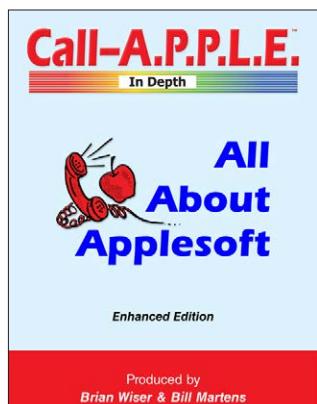


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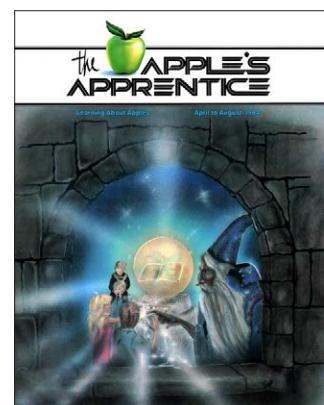
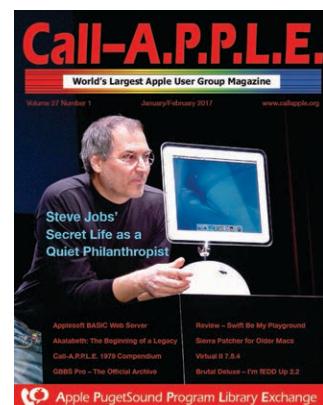
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