



Overview

MacApp®Version2.0-Apple's object-orientedapplication developmentframework-isidealfor programmers who wish to develop robust, user-friendly professional applications for the Macintosh®.

Usingobjectprogrammingwith the MacAppobject class library, tools, and sample code, you work more productively. You rapplication "inherits" the behavior of a standard Macintoshapplication directly from MacAppoode. With MacAppandless than apage of your own Object Pascalor C++ code, you can have a complete Macintoshapplication that creates windows, interprets mouse clicks,

handlesdeskaccessories, prints files, and supports every other standard feature al Macintosh application is likely to have.

Joinalargeactivecommunityof MacAppdevelopers.MacApphas beenusedbycompaniessuchas

Activision, Adobe Systems, Farallon, and Odestato develop commercialapplicationsfora widevarietyofpurposesinduding networking and communications, accounting, image processing, reportgeneration, geographical datadisplay, CAD, optical characterrecognition, knowledge engineering, and geology. The productivityandmaintainabilityof MacAppapplication development have proven valuable to corporationscreatingsoftwareforinhouseuse.suchasHambrecht& Quist, and systems integrators suchas Exis KPMGPeatMarwick.

Features

Benefits

 RichClassLibrary 75 dasses complete with full source code. Implements all of the standard Macintosh application behavior including: menus, "undo" commands, extensive support for exception handling, multipage printing, deskaccessory support, windowscrolling, zooming. WorkswitheitherC++orObjectPascal. Multilingual CustomSupportTools Mouser, the new code browser, speeds editing of your code. ViewEdit,thenewWYSIWYGgraphical windowanddialog-boxdesigntool, speeds designofyourviews. Anintegratedobject-orienteddebugger speedsdebugging. · AnewObjectInspectorletsyouexamine objectsatruntime. An improved build tool makes building your programeasierandfaster. ExtensiveDocumentation · TheIntroduction to MacApp 2.0 and Object-Oriented Programming explains how to getstartedwritingMacAppprograms. The MacApp 2.0 Tutorial leads you through thestep-by-stepcreation of a simple MacApp program. MacApp2.0Cookbook provideshow-to recipesforfeaturescommontomanyapplica-The MacApp 2.0 General Reference explains the MacApparchitecture and theory of operations. An onlineMacApp2.0Class and Method Referencedocuments every field, method and globalinMacApp2.0.

Product Details

MacApp2.0 includes an object-oriented class library, support tools, sample MacApp applications, and manuals for beginners as well as experts.

The MacAppapplication framework provides a general structure that implements the standard Macintosh interface, including scrollable, resizable windows and multipage printing. MacApp fosters development of robust, professional-quality applications by providing you with extensive memory management support, exception-handling mechanisms, error-checking, support for "undo" commands, and a large body of ready-to-use, high-quality code that can be inherited by your application.

MacAppcodeworkswithall current Apple Macintoshhardwareandsystemsoftware, including MultiFinderand AUX. The MacApp codeadheresstrictly to Apple's compatibility guidelines, so it greatly simplifies the task of ensuring that an application will be compatible with future hardware and systemsoftware products from Apple.

MacAppismultilingual. Applications using MacAppcan be written in object programming languages such as Object Pascalor C++. From this object-oriented code, you can call routines written in any other MPW[§] (Macintosh Programmer's Workshop) language including C and assembly language.

Note that MacAppisa framework for applications only. MacAppis not the appropriate tool for building other sorts of programs, such as deviced rivers, deskaccessories, or HyperCard®XCMDs.

The Class Library

MacApp2.0has75classesthattogetherhandle standard user-interface features of Macintosh applications in a manner that adheres strictly to Apple's user-interface guidelines. Features handled by MacAppinclude multiple documents, pull-downmenus, deskaccessory support, printing, and window manipulations such asscrolling, moving, resizing, and zooming. A framework is provided to make it easier for the programment o support other standard user-interface features, such as undo, cut, copy, and paste. MacAppalsocontains an extensive error-handling system that presents detailed errormessages to an application's user.

Support Tools

· ViewEdit. This MacApputility program allows you to use a WYSIWY Gediting environment to create windows and dialog boxes. ViewEdit allows you to draw, resize, and move your views using the standard Macintosh interface. It even creates and rearranges your view hierarchies as you go.

- Mouser. This source code browser removes the confusion of editing multiple source code files and enables editing by components, that is, by classes, methods, and fields. Mouser tracks these structures, finding them quickly, regardless of which file contains them.
- MABuild. MABuildisanMPWtoolthat controls the building of an application from its source files. This latest version is faster, smarter, and more flexible than previous releases. For example, it has many more defaults, so relatively simple applications no longer require an MPW "make" file.
- MacAppdebugger. The MacAppdebugger provides all the usual debugging features, such as breakpoints, stack crawl, trace, and single step. The MacApp Version 2.0 debugger provides faster tracing, built-in commands for controlling MPW performance-monitoring tools, and new context-sensitive on-line help. Under Multi Findery ou can switch into Mouser to examine source code while your application is stopped in the debugger.
- · Object Inspector. Debugversions of MacApp 2.0 applications allowyou to open one ormore Object Inspector windows. An Inspector window can display the current values of the fields of any object. Since you can have multiple Inspector windows open, you can inspect several objects at one time. The Object Inspector can display the contents of Macintosh Toolbox datast ructures as well as MacApp objects.

Example Programs

Sixsampleprograms are included with MacApp. These are complete Macintoshapplications that demonstrate many features, including windows that users can move, resize, scroll, and zoom; multiple documents; the Clipboard; cut, copy, and paste; disk-based documents; font changes; multiple views; undocommands; modal and modeless dialog boxes; and printing. Many developers have used these samples as starting points for applications, modifying and expanding a sample until it evolves into a new application.

Thesixsampleprogramsareasfollows:

- Nothinghas only 70 lines of code, yet it can open multiple windows, show the Clipboard, domanual and automatics crolling, print, and support desk accessories.
- Calcdemonstrates the use of the TGridView dassinasimple spreadsheet application.

- DemoTextdemonstrates the use of styled text.
- DemoDialogsshowsavarietyof dialogboxes.
- DrawShapes is a simple drawing application.
- Cards is a note-card application that demonstrates the use of disk-based data.

Extensive Documentation
MacApp2.0 includes a complete documentation
suite, covering how to get started with MacApp
in the Introduction to MacApp2.0 and ObjectOriented Programming, step-by-step creation
of a simple MacApp program in the MacApp2.0
Tutorial, how-to recipes for features common
tomany applications in the MacApp2.0
Cookbook, the MacApparchitecture in the
MacApp2.0 General Reference, and an on-line
overall class library reference in the MacApp2.0
Class and Method Reference Hyper Card stacks.

Training and Support

Appleoffersaone-weekcoursetitled "MacApp and Object-Oriented Programming." For details, please contact:

AppleDeveloperUniversityRegistrar 20525MarianiAvenue,M/S75-2B Cupertino,CA95014 (408)974-6215 AppleLink®:DEVUNIV

The independent MacApp Developer's Association (MADA) offers a number of useful products and Frame Works, a bimonthly technical journal. You can contact MADA at:

MacAppDeveloper'sAssociation P.O.Box23 Everett,WA98206 (206)252-6946 AppleLink:MADA

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MacApp2.0

Todevelop MacApp applications, you will need the following:	 AnApple®MacintoshPlus,MacintoshSE, MacintoshPortable,orMacintoshIIcomputer withatleast2megabytesofRAM.AMacintosh SE/30oramemberoftheMacintoshIIfamilyis stronglyrecommended. Aharddisk. MacintoshProgrammer'sWorkshop,MPW ObjectPascal,andMPWAssembler,Version3.1 (andoptionallyMPWC++,orp1 Modula-2 v.4.1 fromMADA),orTHINKPascal[§] 3.0 from SymantecCorporation.
MacApp Version 2.0 APDA [§] OrderNo.M7022/D	Withyourorder, you'll receive: Tendisks containing complete MacApp library source code, support tools including View Editand Mouser, Object Pascalinter faces and sample programs, C++headers and samples, the reference stack, and two complete built versions (debug and non-debug) of the MacApp libraries. ACD-ROM containing everything that is on the above tendisks, plus 20 built versions. Four manuals (Introduction, Tutorial, Cookbook, and General Reference).
Auxiliary Products Programming With MacApp, by Dave Wilson, Larry Rosenstein, and Dan Shafer Object-Oriented Programming for the Macintosh, by Kurt J. Schmucker. Aselection of MacApp related products including completes ample applications, source code fragments, books and references, class libraries, and MPW tools and shell scripts.	PublishedbyAddison-Wesleyandavailable throughAPDA and in many bookstores.
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	MacApp Version 2.0 APDA*OrderNo.M7022/D ProgrammingWithMacApp, byDaveWilson, LaryRosenstein, andDanShafer Object-OrientedProgrammingforthe Macintosh,byKurtJ.Schmucker. AselectionofMacApprelatedproducts includingcompletesampleapplications, source codefragments, booksandreferences, class libraries, andMPWtoolsandshellscripts. Apple Computer, Inc. 20525MarianiAvenue, MVS33-G Cupertino, CA95014 1-800-282-2732 U.S.A 1-800-637-0029 Canada 1-408-562-3910 International