

THINK™ Reference

The Instant, On-line Guide to Inside Macintosh I-VI

Version 2.0

**User
Manual** ◆
◆
◆



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Customer Support

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In Australia, call Symantec Pty Ltd at these numbers:

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Symantec
10201 Torre Avenue
Cupertino, CA 95014-9854
USA

In Australia

Attn: Customer Service
Symantec Pty Ltd.
GPO Box 4226
Sydney NSW 2001
Australia

In Europe and elsewhere

Attn: Customer Service
Symantec Ltd.
Kanaalpark 145
2321 JV Leiden
Holland

Technical Support

Contact Technical Support for information on how to use THINK Reference or to report mistakes that you find in it. Our staff can help you better if you take these steps:

- Know the System version. To find it, go to the Finder and choose **About This Macintosh...** in the Apple menu.
- Know the THINK Reference version. To find it, launch THINK Reference and choose **About THINK Reference...** in the Apple menu.
- Call from a phone near the computer. The support analyst may need to ask you about the program.
- Be ready to re-create your problem for the support analyst.
- Please be patient.



You can get technical support for THINK Reference several different ways.

Telephone Support

In the USA or Canada

Use these technical support numbers, Monday through Friday, 9:00am to 5:00pm (Eastern Time):

(617) 275-4800 (voice) (617) 275-2124 (fax)

In Australia

Call Symantec Pty Ltd. at these numbers:

(02) 879-6577 (voice) (02) 879-6805 (fax)

In Europe

Call Symantec Ltd. in Holland at these numbers:

(31) 71-353-111 (voice) (31) 71-353-153 (fax)

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Contact your local Symantec office or distributor for support. For help in finding your local office or distributor, call Symantec USA at these numbers:

(408) 252-3570 (voice) (408) 255-3344 (fax)

Note

Before you send a fax, please call to let a support analyst know it's coming.

Symantec BBS

Symantec also has a bulletin board system, including a Customer Service forum, public-domain software, and a support forum for THINK Reference. It operates 24 hours a day and at no charge. The number is (408) 973-9598. Be sure your terminal software has these settings: 300, 1200, 2400, or 9600 baud; 8 bits, 1 stop bit; no parity.

Symantec also maintains a bulletin board system in Europe. It operates 24 hours a day and at no charge. The number is (31) 71-322-852. Be sure your terminal software has these settings: 300, 1200, or 2400 baud; 8 bits, 1 stop bit; no parity.

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Symantec has a forum on CompuServe specifically for its customers. To go to the Symantec Forum, type GO SYMANTEC at any ! prompt. You'll find discussions here about programming in general and

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THINK C, THINK Pascal, and THINK Reference in particular. The data libraries contain utilities as well as sources for many programs.

If you don't have a CompuServe account, call (800) 848-8199, representative #124, to request a free introductory membership.

America OnLine

Symantec also has a forum on America OnLine for its customers. To go to the forum, choose **Keyword** from the **Goto** menu and enter "Symantec". You'll find discussions here about programming in general and THINK C, THINK Pascal, and THINK Reference in particular.

You can also mail your questions directly to Technical Support. Address your messages to THINKTECH.

AppleLink

Symantec has an account on AppleLink where you can mail your technical support questions. Address your messages to D0152.

Internet

If you have an account on the Internet, you can reach Technical Support through its AppleLink account. Address your questions to:

`d0152@applelink.apple.com.`

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Welcome

1



Welcome to THINK Reference, the instant, online guide to *Inside Macintosh I–VI*. This chapter tells you about THINK Reference, what’s in your THINK Reference package, what equipment you need, and what you should know to use THINK Reference.

If You Don’t Read Manuals

To get started quickly, read Chapter 2, “Getting Started” on page 5. If you’re updating THINK Reference, you’ll also want to read “What’s New” on page 3.

What is THINK Reference?

THINK Reference is a convenient, comprehensive guide to the essential information that you need to program the Macintosh. It describes nearly all of the Macintosh Toolbox routines from *Inside Macintosh I–VI* including information from the Tech Notes. The Toolbox is the set of operating system and user interface routines that make a Macintosh a Macintosh.

THINK Reference has examples and templates that let you copy Toolbox calls into your own program. You can customize THINK Reference with your own personalized bookmarks for instant access to the topics you use often.

THINK Reference is available when you need it most: while you’re programming. The information is cross-referenced through hyperlinks, so you can look up related Toolbox routines quickly without leafing through cumbersome books and notes.

Who needs THINK Reference?

THINK Reference is a tool for programmers who are developing programs for Macintosh computers. If you’re a professional programmer, you’ll like the way THINK Reference gets you to the right informa-

tion quickly. If you're just getting started programming the Macintosh, you'll like the detailed descriptions and examples.

What does THINK Reference cover?

THINK Reference covers nearly all the Toolbox routines described in *Inside Macintosh I-VI*, changes and updates described in the Macintosh Technical Notes 1–320, and information on System 7, C and Pascal programming, and other miscellaneous topics that have become part of Macintosh programming folklore.

THINK Reference is not intended to replace *Inside Macintosh*. The six volumes of *Inside Macintosh* are still the official reference for Macintosh programming.

Note

THINK Reference does not document SANE (Standard Apple Numerics Engine). For more information on SANE, see the *Apple Numerics Manual, Second Edition*.

What You Need

THINK Reference is designed to work on a Macintosh with at least 1 megabyte of RAM and a hard disk.

Which Macintosh models?

THINK Reference works on the Macintosh Plus and later Macintosh models.

How much RAM?

Your Macintosh should have at least 1 megabyte of RAM. When it's running, THINK Reference uses 640K of RAM. Since THINK Reference is designed to work with another application in System 7 or MultiFinder, it works best with 4 or more megabytes of RAM.

How much disk space?

The THINK Reference application takes up about 125K on your disk. The THINK Reference databases take up about 7.4 megabytes. You'll need about 11 megabytes free for installation.

Which System version?

THINK Reference requires system software version 6.0 or later.

What You Should Know

You should be comfortable programming in either C or Pascal. You should be familiar with the fundamentals of Macintosh programming and the Toolbox managers as described in *Inside Macintosh*. For more information, see the entry “Books on Macintosh Programming” in the Online Help database.

What’s New

THINK Reference 2.0 is now more useful than ever, with full System 7 documentation, code examples you can cut and paste, and more.

Full System 7 documentation

THINK Reference 2.0 now documents System 7, including everything in *Inside Macintosh VI*. It also includes the documentation on these Macintosh Toolbox Managers that appears in *Inside Macintosh*:

- Apple Events Manager
- AppleTalk Manager
- Data Access Manager
- Edition Manager
- Program-to-Program Communications (PPC) Toolbox
- Slot Manager
- Sound Manager

Copy and paste code examples

You can copy code examples from THINK Reference pages. When you choose the **Copy Code Example(s)** command from the **Edit** menu, THINK Reference copies all the code examples on the current page to the Clipboard.

The **Copy Code Example(s)** command begins each code example with a comment that looks like this:

```
/* Code Example #X */
```

where *X* tells you which code example it is. If a page contains several code examples, use these comments to find where each one begins.

Multiple databases

THINK Reference now lets you use more than one database. If disk space is short, you can delete databases you don’t use. For more information see “Installing THINK Reference When Space is Tight” on

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page 8. Hyperlinks and Speed Search work across databases. To go to the first entry in a database, use the Databases button in the button panel.

In the future, Symantec and other companies may release additional databases you can use with THINK Reference.

More powerful Speed Search

Now you can go to any page in THINK Reference, even if the current page doesn't contain a hyperlink to it. Just type the name of the page you want to read and press Return.

New Apple events

THINK Reference supports two Apple events that let text editors look up entries and copy function templates. To see if your text editor supports these Apple events, refer to its documentation. For more information on how to use the Apple events in your own programs, see the entry "THINK Reference Apple events" in the Online Help database.

Online help

All the documentation on how to use THINK Reference now appears in a THINK Reference database for easier access.

Cleaner user interface

THINK Reference also includes these changes to the user interface:

- The button panel has been redesigned to look cleaner and use shades of gray on color or gray-scale monitors.
- THINK Reference saves your option settings in the file `THINK Ref Pref's` in the Preferences folder in your System folder.
- The Go Back button works a little differently. If you click Go Back before the menu appears, THINK Reference still brings you to the previous page, but it removes the previous page from the Go Back menu and doesn't add the page you left.
- The THINK Reference databases don't enclose headings in a box with a drop shadow, since they look too much like pop-up menus. Instead, headings are enclosed in a box with a double-line border.

Getting Started

2

Getting started with THINK Reference is easy. This chapter explains how to install THINK Reference and gives a brief description on how to use it. This chapter also describes how to install just part of THINK Reference if space is tight on your hard drive.

Installation Overview

THINK Reference uses the Apple Installer for installation. If you've installed System software on your Macintosh, you're probably familiar with it.

To fit on as few disks as possible, THINK Reference and all its databases are compressed into archives. The THINK Reference Installer copies all these archives to your hard disk and then decompresses them. Since THINK Reference is compressed, you *must* use the Installer to install all or part of it. You cannot copy files off the disks yourself.

Before you Install

Before you install THINK Reference, follow these steps:

1. Be sure that you have enough room on your hard disk: about 11 megabytes (11 MB). If you don't have enough space, read "Installing THINK Reference When Space is Tight" on page 8. During installation, you need enough space to store both the compressed and decompressed databases. After it's installed, THINK Reference and all its databases take up about 7.5 MB.
2. Make sure that all your installation disks are locked. You should be able to see through the little hole in the corner of the disk.

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3. Turn off any virus protection, such as Symantec AntiVirus for Macintosh (SAM). They can cause the Installer to fail. If you're worried about viruses, check your hard disk for viruses after you've installed THINK Reference.
4. If you have THINK Reference 1.0, delete both the THINK Reference application and database from your hard disk.

Installing THINK Reference

Now insert the disk called Install and double-click on the file Installer. You'll see the dialog in Figure 2-1.

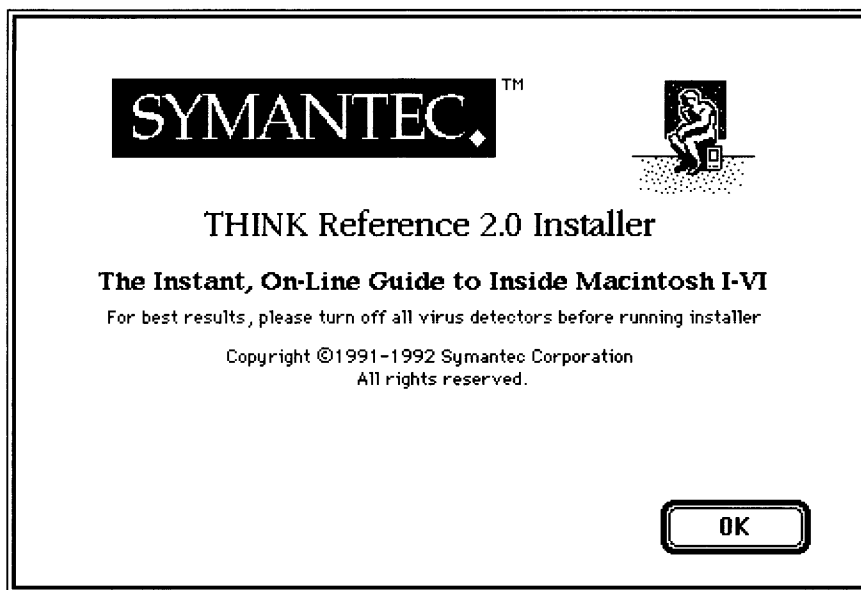


Figure 2-1 Welcome to the THINK Reference Installer

When you click OK, you'll see the installation dialog in Figure 2-2.

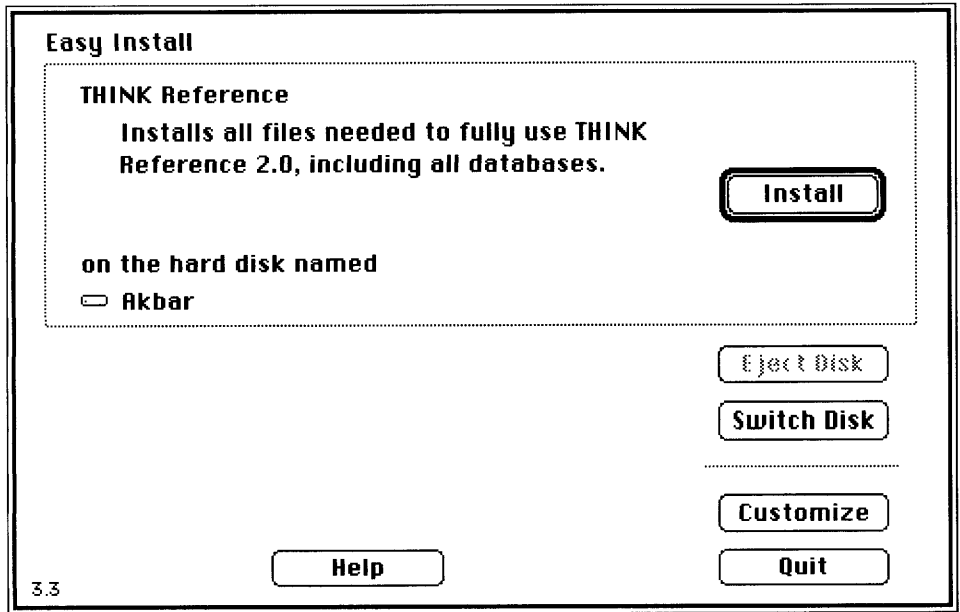


Figure 2-2 Easy Install dialog

Use the Switch Disk button to choose the hard disk drive that you want to install THINK Reference on. When you've selected the disk you want to install on, click on the Install button. If you don't have enough room on your drive, the Installer will let you know.

The Installer copies the THINK Reference archives onto your hard disk, asking you to insert other THINK Reference disks as necessary. When all the archives are copied over, the installer decompresses

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them. After it has decompressed an archive, it deletes the archive. To stop installation at any time, click on the Stop button.

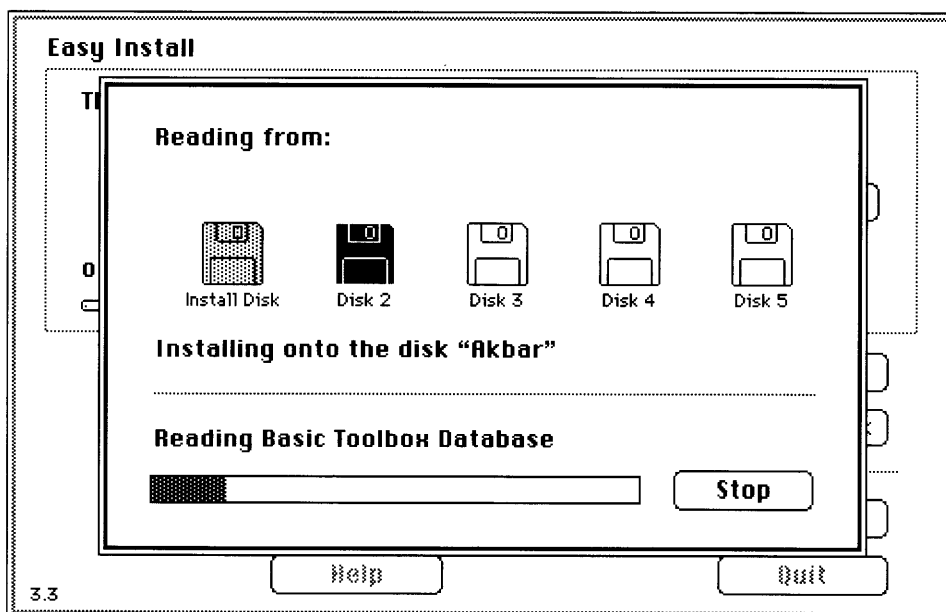


Figure 2-3 Installing THINK Reference

If the Installer displays a dialog telling you that there is not enough room to install THINK Reference, delete the THINK Reference folder from your hard drive. Either try to free up enough space for THINK Reference (11 MB) or see the section “Installing THINK Reference When Space is Tight” below.

When the Installer finishes installing THINK Reference on your disk, you'll find it in a folder called THINK Reference 2.0. The folder contains the application, THINK Reference 2.0, and all the THINK Reference databases.

Installing THINK Reference When Space is Tight

If you don't have enough free space on your hard drive for the complete THINK Reference system, you can install only the databases you need. However, you may see the dialog in Figure 2-4 frequently.

THINK Reference displays that alert when you try to go to a page that is in a missing database.

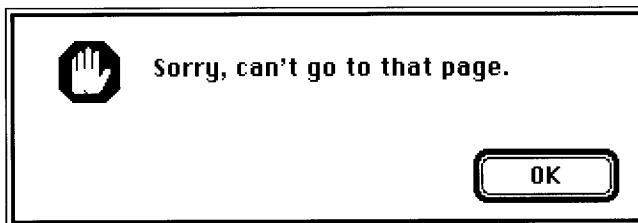


Figure 2-4 Missing entry dialog

Insert the disk called Install and double-click on the file Installer. You'll see the Easy Install dialog in Figure 2-2. Use the Switch Disk button to choose the hard disk drive that you want to install THINK Reference on. When you've selected the disk you want to install on, click on the Customize button. You'll see the Custom Install dialog like the one in Figure 2-5.

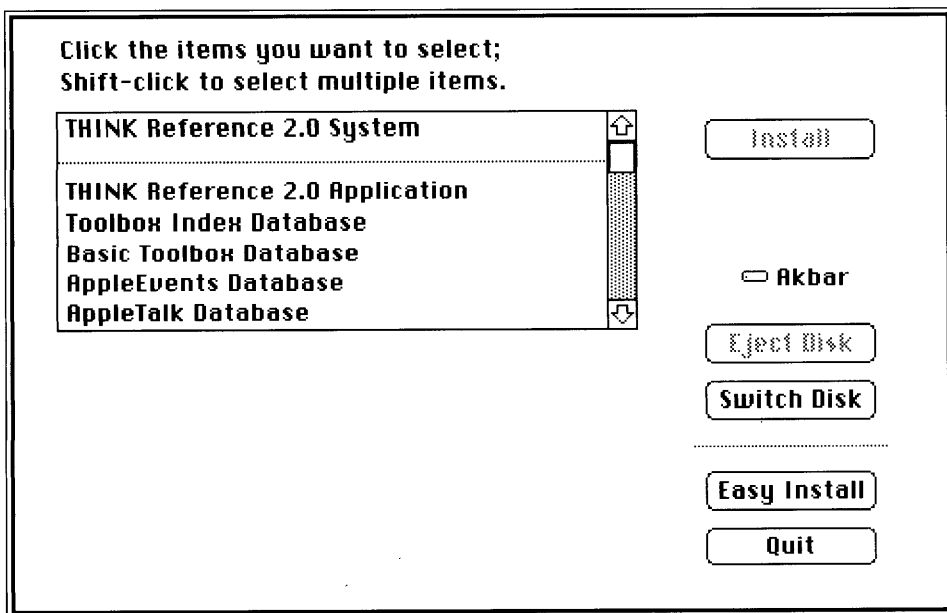


Figure 2-5 Custom Install dialog

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Select the items you want to install. If you don't have enough room on your drive, the Installer will let you know. Here's what's in the different items:

This item...	Contains...
THINK Reference 2.0 System	The THINK Reference application and all its databases. Installing this is like clicking Install from the Easy Install dialog.
THINK Reference 2.0 Application	The THINK Reference application. You <i>must</i> install this to use THINK Reference. It's about 125K.
Online Help Database	Online help describing how to use the THINK Reference application. We recommend that you install this. It's about 125K.
Toolbox Index Database	The Traps A–Z, Managers, Structures, and Data Interfaces pages. These pages let you go to entries without remembering their names. We recommend that you install this. It's about 1.2 MB.
Basic Toolbox Database	Basic Toolbox information, including the File Manager, Memory Manager, QuickDraw, and Toolbox Utilities. In short, everything in <i>Inside Macintosh I–VI</i> that isn't in one of the other databases. We recommend that you install this. It's about 4 MB.
AppleTalk Database	AppleTalk Manager documentation. It's about 350K.
AppleEvents Database	Apple Events Manager documentation. It's about 300K.

Table 2-1 Custom Install options



This item...	Contains...
DAM/Edition/PPC/Slot Database	Data Access Manager, Edition Manager, Program-to-Program Communications Toolbox, and Slot Manager documentation. It's about 700K.
Sound Mgr Database	The Sound Manager. It's about 300K.
WWSO Mgr Database	An overview on how to write software for international distribution. It's about 400K.

Table 2-1 Custom Install options (Continued)

Note

You *must* install the THINK Reference 2.0 Application to use THINK Reference. In addition, we recommend that you also install the Online Help Database, the Toolbox Index Database, and the Basic Toolbox Database.

When you've selected the items you want, click Install. The Installer copies the THINK Reference archives it needs onto your hard disk, asking you to insert the disks it needs. When the archives are copied over, the Installer decompresses them. After it has decompressed an archive, it deletes the archive. To stop installation at any time, click the Stop button.

When the Installer finishes, you'll find it in a folder called THINK Reference 2.0. The folder contains the application, THINK Reference 2.0, and all the THINK Reference databases you asked it to install.

If you decide to install other databases later, launch the THINK Reference Installer and go to the Custom Install diagram, in Figure 2-5. Select the database to install and click Install.

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Running THINK Reference the First Time

To run THINK Reference, open the THINK Reference 2.0 folder, and double click the THINK Reference icon. Usually, you'll see the THINK Reference window in Figure 2-6 after a few seconds.

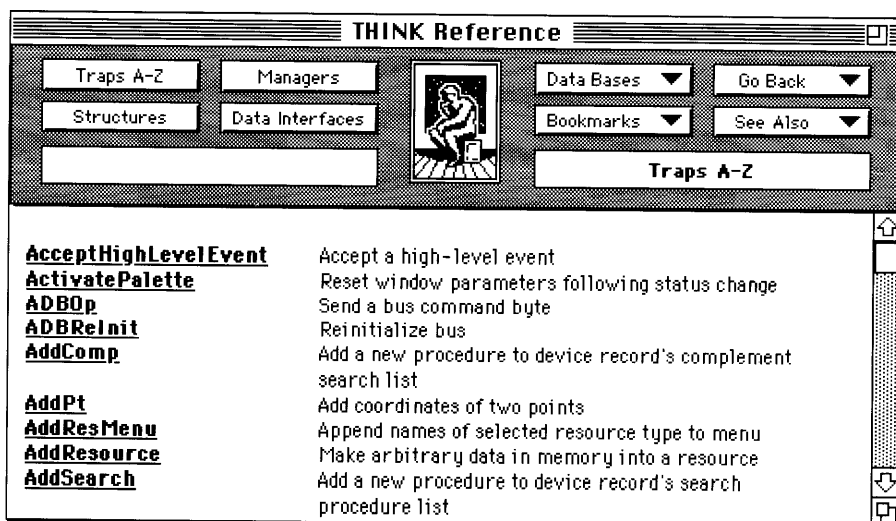


Figure 2-6 THINK Reference window

However, if you moved the databases since you installed them, THINK Reference will ask you to locate them. THINK Reference expects to find its databases in the folder that the THINK Reference application is in, which is where the installer places them. THINK Reference displays the dialog in Figure 2-7. Once the name of the folder that contains the databases is in the button under "Use all da-

tabase files in,” click the button. THINK Reference remembers where the databases are.

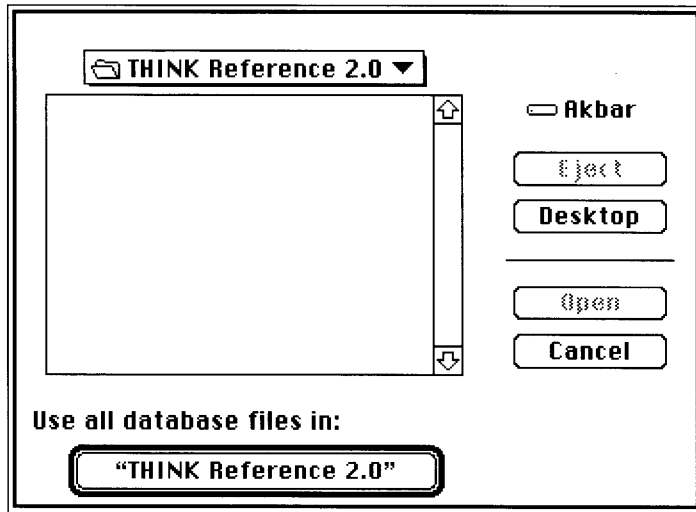


Figure 2-7 Selecting the database folder

Whenever you move the databases, THINK Reference will bring up this dialog the next time you use it.

If you want THINK Reference to bring up this dialog, hold down the Shift key as THINK Reference is starting up. You may need this dialog if you have more than one set of databases and you want to switch between them.

Using THINK Reference

This section is a quick introduction on how to use THINK Reference.

The first page is an alphabetical listing of all the Macintosh Toolbox traps described in THINK Reference. It's called Traps A–Z. Whenever you start THINK Reference, you see this page. To see more information on a Toolbox trap, either click its name or type its name and press Return.

Click on a trap name now.

Now move the cursor around. Note that it sometimes changes to a magnifying glass (🔍). It changes to a magnifying glass whenever you're over a hyperlink. A hyperlink is special type of text that takes

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Sometimes THINK Reference uses underlined words for emphasis. You can tell these apart from hyperlinks because the cursor changes to a magnifying glass only over hyperlinks.

you to another page in THINK Reference. Hyperlinks appear as **bold underlined** words or as plain underlined words. Bold underlined hyperlinks usually refer to Toolbox routines, and plain underlined hyperlinks refer to data structures, variables, or fields of records.

Click on a hyperlink. More detailed information on a subject is only a click away in THINK Reference.

Reading a Toolbox routine reference page

Each page has a name that appears in the page name field in the right side of the button panel.

A Toolbox routine reference page begins with a short description. The next line tells you which header file you need to include in your program, and the Toolbox manager the routine belongs to.

The function declaration tells you how the Toolbox routine is defined. In this case, for example, it tells you that CopyRgn expects to be called with two region handles as arguments.

The long description tells you what the Toolbox routine does and describes each of the arguments in detail. The notes section gives you extra information and tips about using the Toolbox routine. In some cases, the notes section also includes example code.

The Toolbox descriptions are given in a C-style declaration. If you're a Pascal programmer, these kinds of declarations might be unfamiliar. The reference page "Pascal & C" gives you all the information you need to know. Just type "Pascal & C" and press Return.

Using the tables of contents

The Traps A-Z page lets you look up a function if you know its name. The Quick-Jump buttons in the upper left corner of the THINK Reference window bring you to other tables of contents that help you look up the information you need.

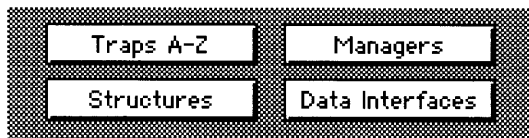


Figure 2-8 The Quick-Jump buttons

Which one you use depends on what you're looking for and how much you know before you start looking. For instance, if you want

more information on a function and you know it starts with SFGet, you would start in the Traps A-Z page. If you know that the List Manager has a routine for changing the data in a cell, the best place to start would be in the Managers page.

Table 2-2 summarizes what these tables of contents contain.

Use this...	To look up a...	if you know...
Traps A-Z	Function	Part of its name
Managers	Function	Its Manager
Structures	Data structure or type	Part of its name
Data Interfaces	Data structure or type	Its Manager

Table 2-2 The Tables of Contents

Traps A-Z page

The Traps A-Z page is the page you see when you launch THINK Reference. It's an alphabetical listing of every Toolbox routine in the THINK Reference database.

To get to the Traps A-Z page, you can click on the Traps A-Z button in the button panel, choose **Traps A-Z** in the **Reference** menu, or use the menu short cut Command-T.

Managers page

The Managers page is an alphabetical list of all the Toolbox managers in the THINK Reference database. Each manager has a page that contains hyperlinks to all of its Toolbox routines as well as a hyperlink to the page that describes all the data structures that the manager defines.

To get to the Managers page, you can click on the Managers button in the button panel, choose **Managers** in the **Reference** menu, or use the menu short cut Command-M.

Data Interfaces page

Usually a data interface page corresponds to a header file. For example, the File Manager Data page describes the contents of files.h.

The Data Interfaces page contains a set of hyperlinks organized by Toolbox manager that take you to a page that describes the data structures, constants, and global variables that manager defines. For instance, if you want to know what constants the Menu Manager defines, you might start at this page.

To get to the Data Interfaces page, you can click on the Data Interfaces button in the button panel, choose **Data Interfaces** from the **Reference** menu or use the menu short cut Command-D.

Structures page

The Structures page contains an alphabetical listing of hyperlinks to the major data structures. For example, if you want more information

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on a structure and all you know is that it begins with Window, you would come to this page.

To get to the Structures page, you can click on the Structures button in the button panel, choose **Structures** from the **Reference** menu or use the menu short cut Command-S.

Where To Go Next

This chapter got you started with THINK Reference. Read THINK Reference's online documentation for more information on the features discussed here and on other features such as searching, printing, and setting preferences. If you're using System 7, choose **THINK Reference Help** from the Help menu. If you're using System 6, choose **THINK Reference Help** from the Apple menu.

Some text editors let you look up information in THINK Reference as you write source code. Check your text editor's documentation to see if it lets you do this.

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Entries in **bold face** are menu commands. Entries in typewriter face are functions, methods, variables, keywords, or files.

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