

# Glossary

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**alternate rectangle** A rectangle used by the Help Manager (under some circumstances) for transposing a help balloon's tip when trying to fit the balloon onscreen. For all help resources except the 'hdlg' resource, the Help Manager moves the tip to different sides of the hot rectangle. For 'hdlg' resources, however, the Help Manager allows you to specify alternate rectangles for transposing balloon tips. You can also specify alternate rectangles when you use the `HMShowBalloon` and `HMShowMenuBalloon` functions. Compare **hot rectangle**. See also **tip**.

**application translation extension** A translation extension that can create a list of file types and identify files but that performs no actual file translation.

**balloon definition function** An implementation of a window definition function that defines the general appearance of a help balloon. See also **help balloon**.

**catalog type** The type of a file as maintained in a volume's hierarchical file system catalog file. See also **translation file type**.

**cell** A rectangular part of a list displaying information about one item from the list.

**color icon record** A data structure of type `CICon` used for information obtained from a color icon ('cicn') resource.

**color icon resource** A resource of type 'cicn' used for color icon resource data. A color icon resource can define a color icon of any size without a mask or a 32-by-32 pixel color icon with a mask. You can define the bit depth for a color icon resource and you can use resources of type 'cicn' in menus and dialog boxes. Note that the Finder does *not* use or display any resources that you create of type 'cicn'. To create an icon for display by the Finder, create one or more of the icons in an icon family. See also **icon family**, **icon resource**, **small icon resource**.

**component** A piece of code that provides a defined set of services to one or more clients. Applications, system extensions, as well as other components can use the services of a component.

**component connection** An access path to a component. A single component can serve multiple client applications at the same time by supporting multiple connections.

**component identifier** A value that identifies a particular component.

**component instance** A value that identifies a component connection. Each instance of a component can maintain separate storage and error information, and manage its A5 world.

**Component Manager** A collection of routines that allows your application or other clients to access components. The Component Manager manages components and also provides services to components.

**component subtype** A value that identifies variations on the basic interface that a component supports. As with component types, a component subtype is a sequence of four characters. The value of the component subtype is meaningful only in the context of a given component type.

**component type** A value that identifies the type of service provided by a component. As with resource types, a component type is a sequence of four characters.

**control device function** A function that interacts and communicates with the Finder, responding to requests from the Finder to handle events and perform actions. Every implementation of a control panel must contain a control device function in the control device code ('cdev') resource.

## GLOSSARY

**control panel** A modeless dialog box that contains controls that let users specify basic settings and preferences for a systemwide feature, such as the speaker volume, desktop pattern, or picture displayed by a screen saver.

**control panel file** A file of type 'cdev' that contains the required and optional resources to implement a control panel. These resources also define the look of a control panel, including its icon. One of the required resources is a code resource containing a control device function.

**convertor** See **translator**.

**current resource file** The file whose resource fork the Resource Manager searches first when searching for a resource; usually the file whose resource fork was opened most recently.

**data fork** The fork of a file that contains the file's data.

**desktop database** A database of icons, file types, applications, and comments maintained by the Finder for all volumes over 2 MB.

**Desktop Manager** A collection of routines that manages the desktop database.

**dialog-item component** The portion of an 'hdlg' resource in which you specify the help messages for a particular item in a dialog or alert box.

**drop-launch** To drag a document's icon onto an application's icon, thereby opening the document.

**dynamic window** A window that can change its title or reposition any of the objects within its content area.

**explicit translation** The conversion of a file or scrap requiring direct intervention from an application. See also **implicit translation**.

**file** A named, ordered sequence of bytes stored on a Macintosh volume and divided into two forks, the data fork and the resource fork.

**file reference number** A number (greater than 0) returned to your application when it opens a fork of a file. Each file reference number corresponds to a unique access path.

**file translation list** A list of source and destination file types among which a file translation system can translate. Defined by the `FileTranslationList` data type.

**file translation system** A translation system that can recognize and translate files from one format to another.

**file type specification** A way of specifying the catalog type and translation file type of a file, as well as other information about translating the file. Defined by the `FileTypeSpec` data type.

**filter** See **translator**.

**header component** The portion of a help resource in which you supply information that applies to all help balloons specified in the resource—information such as the version number of the Help Manager, the balloon definition function, and the variation code.

**help balloon** A rounded-rectangle window that contains explanatory information for the user. With tips pointing at the objects they annotate, help balloons look like the bubbles used for dialog in comic strips. Help balloons are turned on by the user from the Help menu; when Balloon Help assistance is on, a help balloon appears whenever the user moves the cursor over the balloon's hot rectangle. See also **alternate rectangle**, **hot rectangle**.

**Help Manager** A collection of routines that your application can use to provide Balloon Help assistance to your application's users.

**help messages** Descriptive text or pictures that appear inside help balloons.

**help resources** Application-supplied resources that describe help messages, balloon definition functions, variation codes, and, when necessary, the tips and the hot rectangles or alternate rectangles for the Help Manager to use in drawing help balloons. These help resources are the menu help ('hmnu') resource, the dialog item help ('hdlg') resource, the rectangle help ('hrct') resource, the window help ('hwin') resource, the Finder icon help ('hfdi') resource, and the default help override ('hovr') resource.

## GLOSSARY

**hot rectangle** An area defined to display a help balloon. When the user moves the cursor over this area, the Help Manager displays the help balloon associated with the hot rectangle. Compare **alternate rectangle**.

**hot-rectangle component** The portion of an 'hrct' resource in which you specify hot rectangles and the help messages associated with each hot rectangle.

**icon** An image on a Macintosh screen that graphically represents some object, such as a file, a folder, or the Trash. See also **icon family**.

**icon cache** An icon suite that includes a pointer to an icon getter function and a pointer to data that can be used as a reference constant. See also **icon getter function, icon suite**.

**icon component** The portion of an 'hldr' resource in which you specify a help message for your application's Finder icon.

**icon family** A set of icons that represent a single object and share the same resource ID. The resource types and names of each member of an icon family are 'ICN#'—a large (32-by-32 pixel) black-and-white icon and mask; 'ics#'—a small (16-by-16 pixel) black-and-white icon and mask; 'icl4'—a large (32-by-32 pixel) color icon with 4 bits of color data per pixel; 'ics4'—a small (16-by-16 pixel) color icon with 4 bits of color data per pixel; 'icl8'—a large (32-by-32 pixel) color icon with 8 bits of color data per pixel; and 'ics8'—a small (16-by-16 pixel) color icon with 8 bits of color data per pixel.

**icon getter function** An application-defined function that returns a handle to icon data for a specified icon type. You can associate an icon getter function with an icon cache. Subsequent calls to Icon Utilities routines that use icons not present in the icon cache use the icon getter function to read the icon data into memory.

**icon resource** A resource of type 'ICON' that contains a bitmap for a 32-by-32 pixel black-and-white icon. You can use resources of type 'ICON' in menus and dialog boxes. Note that the Finder does *not* use or display any resources of type 'ICON' that you create. To create an icon for display by the Finder, create

one or more of the icons in an icon family. See also **color icon resource, icon family, small icon resource**.

**icon suite** One or more handles to icon data that represents icons from a single icon family. Some Icon Utilities routines accept a handle to an icon suite and draw the appropriate icon from that suite for the destination rectangle and the bit depth of the display device.

**Icon Utilities** A collection of routines that your application can use to display icons in graphics ports (such as windows or dialog boxes) created by your application.

**implicit translation** The automatic conversion of a file or scrap without direct intervention from an application. See also **explicit translation**.

**kind resource** A resource that contains kind strings for document types. Defined by the 'kind' resource type.

**kind string** The string displayed in the "Kind" column in a Finder window when a folder's contents are viewed by name, size, kind, label, or date (that is, by any method other than by icon or small icon).

**list** A series of items displayed within a rectangle. Lists may have zero, one, or two scroll bars.

**list definition procedure** A code resource of type 'LDEF' that defines the appearance of a list.

**List Manager** A collection of routines that your application can use to create and display lists in your application's windows or dialog boxes.

**Macintosh Easy Open** The part of the Macintosh system software that provides translation services for users of Macintosh computers. Macintosh Easy Open uses the Translation Manager to provide these services.

**menu-item component** The portion of an 'hmenu' resource in which you specify the help messages for a particular menu item.

**menu-title component** The portion of an 'hmenu' resource in which you specify help messages for the menu title.

## GLOSSARY

**mini icons** Icons of resource types 'icm#', 'icm4', and 'icm8' that measure 12 by 16 pixels. Like the icons in an icon family, the three resource types for mini icons identify the icon list, 4-bit color icons, and 8-bit color icons, respectively. Compare **small icon resource**.

**missing-items component** The portion of a help resource in which you specify help messages for any items missing from or unspecified in the rest of the resource.

**monitors extension** An extension to the Monitors control panel that a video card manufacturer can develop and provide to give users a simple way to control features of the video card. A monitors extension is limited to the video card; it cannot be used to control the settings of systemwide features. A user can open an extension only through the Monitors control panel.

**monitors extension file** A file of type 'cdev' that contains required and optional resources that implement an extension to the Monitors control panel for a specific video card. One of the required resources is a code resource containing a monitors extension function.

**monitors extension function** A function that interacts and communicates with the Monitors control panel, responding to requests from the Monitors control panel to handle events and perform actions. Every implementation of an extension to the Monitors control panel must contain a monitors extension function in the monitors code ('mntcr') resource.

**mouse location** The location of the cursor at the time an event occurs.

**open resource** A resource of type 'open' that declares which file types your application can open as documents.

**point-to-point translation** A translation group with one source type and one destination type.

**resource** Data of any kind stored in a defined format in a file's resource fork and managed by the Resource Manager.

**resource attributes** Flags in the resource map that tell the Resource Manager how to handle the corresponding resource.

**resource file** Synonym for resource fork.

**resource fork** The fork of a file that contains the file's resources.

**resource ID** An integer that identifies a specific resource of a given type.

**resource map** Data read into memory when the Resource Manager opens a resource fork. A resource map contains information about the resources in the resource fork.

**resource type** The type of a resource in a resource fork, designated by a sequence of four characters (such as 'MENU' for a menu).

**scrap** A storage area (either in memory or on disk) that is available to applications to hold the last data cut or copied by the user.

**Scrap Manager** A collection of routines that your application can use to support copy-and-paste operations.

**scrap translation list** A list of source and destination scrap types among which a scrap translation system can translate. Defined by the `ScrapTranslationList` data type.

**scrap translation system** A translation system that can recognize and translate scraps from one format to another.

**scrap type specification** A way of specifying information about translating a scrap. Defined by the `ScrapTypeSpec` data type.

**small icon resource** A resource of type 'SICN' that describes 12-by-16 pixel icons, even though the icons are stored in the resource as 16-by-16 pixel bitmaps. An 'SICN' resource consists of a list of 16-by-16 pixel bitmaps for black-and-white icons; by convention, the list includes only two bitmaps, and the second bitmap is considered a mask. You can use resources of type 'SICN' in menus. Note that the Finder does *not* use or display any resources that you create of type 'SICN'. To create an icon for display by the Finder, create one or more of the icons in an icon family. See also **color icon resource**, **icon family**, **icon resource**. Compare **mini icons**.

**static window** A window that doesn't change its title or reposition any of the objects within its content area.

## GLOSSARY

**superuser** A user who is considered to be very knowledgeable. A monitors extension can define controls that it displays for superusers only.

**tip** At the side of a help balloon, the point that indicates what object or area is explained in the help balloon. See also **help balloon, variation code**.

**transform** A mode you can specify with some Icon Utilities routines that draw icons. Specifying transforms with these routines alters the appearance of the icons in standard ways that are analogous to Finder states for icons. For example, you can specify the transform `ttSelected` to draw an icon so that it is highlighted as if it were selected in the Finder.

**translation extension** A component called by Macintosh Easy Open to identify and translate files or scraps. See also **application translation extension**.

**translation file type** The type of a file relevant for translation purposes. See also **catalog type**.

**translation group** A collection of source and destination file types; within each translation group, each source file type can be translated into any destination file type.

**Translation Manager** A collection of routines that provide data conversion services (such as implicit translation) for applications on Macintosh computers. You can use the Translation Manager to implement explicit translation.

**translation system** A translation extension, with or without external translators, that is able to recognize and translate files or scraps.

**translator** A piece of software called by translation extensions or by applications to convert documents or scraps from one format to another.

**type selection** A feature that allows a user to type the name of an item in a list to select it.

**variation code** In the header component of a help resource, an integer that specifies the preferred position of a help balloon relative to its hot rectangle. The balloon definition function

draws the frame of the help balloon based on its variation code. See also **balloon definition function**.

**window component** The portion of an 'hwin' resource in which you associate an 'hrct' or 'hdlg' resource to a particular window.



# Index

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## Numerals

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- 4-bit color icons 5-4
- 8-bit color icons 5-4, 5-5
- 12-by-16 pixel icons (mini) 5-7
- 16-by-16 pixel icons (small) 5-4, 5-6
- 32-by-32 pixel icons (large) 5-4

---

## A

---

- About This Macintosh dialog box 4-8
- action functions 5-57 to 5-58
- activate events, in lists 4-34
- AddIconToSuite function 5-33
- AddResource procedure 1-90 to 1-91
- A5 register, and code resources 4-98
- A5 world, and component connections 6-68 to 6-69
- alert boxes
  - help balloons for 3-51 to 3-74
  - help balloons for areas outside 3-87 to 3-89
  - and Help menu 3-92
  - and help messages for menus 3-38
- aligning icons 5-36
- alternate rectangles. *See also* hot rectangles
  - specifying in 'hdlg' resources 3-55 to 3-57
  - specifying in HMShowBalloon function 3-79 to 3-81
- anchor algorithm for extending list selections 4-18 to 4-20
- Apple menu, help balloons for 3-13 to 3-18
- Apple Menu Items folder, icon for 1-132
- application-defined routines. *See also* sample routines
  - DoGetFileTranslationList 7-54
  - DoGetScrapTranslationList 7-59
  - DoIdentifyFile 7-56
  - DoIdentifyScrap 7-60
  - DoTranslateFile 7-57
  - DoTranslateScrap 7-61
  - MyBalloonDef 3-129 to 3-130
  - MyCdev 8-74 to 8-78
  - MyClickLoop 4-101
  - MyComponent 6-79
  - MyIconAction 5-58
  - MyIconGetter 5-59
  - MyLDEF 4-97 to 4-99
  - MyMatchFunction 4-99 to 4-100
  - MyMntrExt 8-78 to 8-82
  - MyTip 3-130 to 3-131

- application icons, help balloons for 3-84 to 3-86
- Application menu, help balloons for 3-13 to 3-16
- applications
  - adding to the desktop database 9-18
  - default icon for 1-130
  - removing from desktop database 9-21
- application startup 1-50
- application translation extensions 7-14, 7-35
- arrow keys
  - extending list selections with 4-16 to 4-20
  - moving list selections with 4-15 to 4-16
  - processing for the current list 4-52
  - supporting navigation of lists with 4-48 to 4-53

---

## B

---

- balloon definition functions
  - creating 3-93 to 3-94
  - standard 3-8
- Balloon Help assistance. *See also* help balloons
  - defined 3-5
  - determining whether enabled 3-98
  - enabling and disabling 3-5, 3-7, 3-107 to 3-108
  - user interface guidelines 3-18 to 3-23, 3-37 to 3-38, 3-39 to 3-40, 3-57 to 3-58, 3-70 to 3-71
- BalloonWriter tool 3-17
- batch translation 7-9
- BeginUpdate procedure, and updating lists 4-34
- 'BNDL' resource type
  - and control panel files 8-7, 8-22, 8-83
  - and monitors extensions files 8-12, 8-57, 8-59, 8-60
  - used in desktop database 9-3
- bundle bit 7-23
- bundles resources. *See* 'BNDL' resource type

---

## C

---

- CallComponentFunction function 6-63 to 6-64
- CallComponentFunctionWithStorage function 6-64 to 6-65
- CanDocBeOpened function 7-17, 7-40 to 7-42
- can do request 6-22
- CaptureComponent function 6-25, 6-75 to 6-76
- 'card' resource type 8-11, 8-50 to 8-51, 8-87
- catalog types 7-19

## INDEX

- 'cdev' file type 8-4, 8-48
- 'cdev' resource type 8-7, 8-25 to 8-48, 8-76 to 8-77
- cdev functions. *See* control device functions
- Cell data type 4-22, 4-65
- cell record 4-65
- cells. *See* list cells
- ChangedResource procedure 1-21, 1-88 to 1-90
- 'cicn' resource type. *See also* icon resources
  - and color icon record 5-17
  - and Dialog Manager 5-6
  - drawing 5-13 to 5-17
  - and Menu Manager 5-6
- CIcon data type 5-17
- Clear command (Edit menu) 2-6
- click-loop procedures 4-25, 4-100 to 4-101
- Clipboard file 2-33
- Clipboard window 2-10
  - hiding 2-20
  - showing 2-25
- cloning, components 6-35
- close boxes, help balloon for 3-14 to 3-16, 3-87 to 3-89
- CloseComponent function 6-47
- CloseComponentResFile function 6-73
- close request 6-21
- CloseResFile procedure 1-110 to 1-111
- color icon record 5-17
- color icon resources. *See* 'cicn' resource type
- color icons 5-4 to 5-6
- Command key, using to create discontinuous selections in lists 4-11
- Command-key equivalents. *See* keyboard equivalents
- component connections 6-6, 6-65 to 6-69
- Component data type 6-41
- ComponentDescription data type 6-37 to 6-40, 6-52 to 6-54
- component description record 6-37 to 6-40, 6-52 to 6-54
- component file 6-32 to 6-33, 6-71 to 6-73, 6-84
- ComponentFunctionImplemented function 6-50 to 6-51
- component identifiers 6-9, 6-40 to 6-41, 6-42 to 6-43, 6-46
- ComponentInstance data type 6-41
- component instances 6-6, 6-40 to 6-41, 6-45 to 6-46
- Component Manager 6-3 to 6-99
  - data structures in
    - for applications 6-37 to 6-40
    - for components 6-52 to 6-55
  - requests to components 6-18 to 6-28
  - resources in 6-80 to 6-85
  - routines in
    - for applications 6-41 to 6-52
    - for components 6-56 to 6-76
  - testing for availability 6-6
- ComponentParameters data type 6-55
- component parameters record 6-54 to 6-55
- component requests 6-18 to 6-28
  - can do 6-22
  - close 6-21
  - open 6-19 to 6-20
  - register 6-23 to 6-24
  - target 6-25 to 6-26
  - unregister 6-24 to 6-25
  - version 6-22 to 6-23
- ComponentResource data type 6-81 to 6-85
- component resources 6-32 to 6-33, 6-80 to 6-85
- components
  - calling 6-73 to 6-74
  - capturing 6-25 to 6-26, 6-75 to 6-76
  - cloning 6-35
  - closing connections to 6-12, 6-47
  - defined 6-3
  - finding 6-8 to 6-9, 6-42 to 6-44
  - getting information about 6-10 to 6-11, 6-47 to 6-51
  - hiding 6-75 to 6-76
  - interfaces of, defining 6-28 to 6-30
  - levels of service 6-3, 6-35, 6-73
  - manufacturer code for 6-4, 6-39, 6-53
  - opening connections to 6-7 to 6-10, 6-44 to 6-46
  - registering 6-30 to 6-32, 6-57 to 6-62, 6-80 to 6-81
  - requesting services from 6-18 to 6-27
  - structure of 6-13 to 6-18
  - targeting 6-25 to 6-26
  - unregistering 6-24 to 6-25
  - using services of 6-11 to 6-12
- ComponentSetTarget function 6-25, 6-77
- component subtypes 6-4, 6-38, 6-53
- component types 6-4, 6-38, 6-53
- content region of help balloons 3-8, 3-93
- control device code resources 8-7, 8-25, 8-74
- control device functions 8-4, 8-25 to 8-47, 8-74 to 8-78
  - and activate events 8-33
  - and keyboard-related events 8-37
  - and mouse-related events 8-39
  - performing initialization 8-29
  - preserving a handle to private storage 8-30
  - and update events 8-43
- Control Panel desk accessory 8-15, 8-23, 8-37, 8-39
- control panel files
  - creating 8-12 to 8-48
  - defined 8-4
  - and monitors extensions 8-73
  - and system extensions 8-8
  - user documentation for 8-8
- control panels 8-3 to 8-92
  - and Command-key equivalents 8-37
  - compatibility with the Control Panel desk
    - accessory 8-15, 8-23, 8-37, 8-39
  - creating 8-12 to 8-48
  - creating resources for 8-14 to 8-24
  - and error reporting 8-47

## INDEX

- initializing 8-30
- required resources 8-6, 8-82 to 8-87
- shutting down 8-45
- specifying a font for 8-23
- and text defined as user items 8-43
- user interface guidelines for 8-12
- valid resource IDs for 8-14
- where to store 8-8

Control Panels folder, icon for 1-132

controls, help balloons for 3-55

conversion of file formats. *See* translation of file formats

copy and paste, user interface guidelines for 2-10 to 2-11

Copy command (Edit menu) 2-6, 2-19

CountComponentInstances function 6-67 to 6-68

CountComponents function 6-43 to 6-44

Count1Resources function 1-98 to 1-99

Count1Types function 1-102

CountResources function 1-98

CountTypes function 1-102

CreateResFile procedure 1-57 to 1-58

current resource file

- defined 1-10
- getting and setting 1-28 to 1-30, 1-68 to 1-71

CurResFile function 1-68 to 1-69

cursors, tracking location by Help Manager 3-25

cut and paste, intelligent 2-10 to 2-11

Cut command (Edit menu) 2-6, 2-15 to 2-19

## D

---

DataArray data type 4-25

data forks 1-4 to 1-6

DataHandle data type 4-25, 4-66

'dctb' resource type, and Standard File Package dialog boxes 7-11

default help override resources. *See* 'hovr' resource type

DelegateComponentCall function 6-35, 6-36, 6-74

desk accessories, default icon for 1-130

desktop, default icons used on 1-133

desktop database 9-3 to 9-26

- adding data to 9-17 to 9-20
- closing 9-11
- contents of 9-5
- deleting data from 9-20 to 9-22
- determining parent directory of 9-24
- determining reference number of 9-5, 9-9 to 9-11
- determining space used by 9-24
- locating 9-9 to 9-11
- opening 9-11 to 9-12
- removing data from 9-25 to 9-26

- retrieving data from 9-12 to 9-16
- saving to disk 9-23

Desktop file 9-3, 9-4

Desktop Manager 9-3 to 9-26

- data structures in 9-6 to 9-8
- routines in 9-8 to 9-26

desktop parameter block 9-7 to 9-8

DetachResource procedure 1-22 to 1-24, 1-108

dialog boxes

- creating lists in 4-29
- handling editing operations in 2-31
- help balloons for 3-51 to 3-74
- help balloons for areas outside 3-87 to 3-89
- and Help menu 3-92
- and help messages for menus 3-38, 3-47 to 3-51

DialogCopy procedure 2-31

DialogCut procedure 2-31

dialog-item help resources. *See* 'hdlg' resource type

Dialog Manager

- and Scrap Manager 2-31
- and TextEdit 2-31

DialogPaste procedure 2-31

discontiguous selections, in lists 4-11

DisposeCIcon procedure 5-30

DisposeIconSuite function 5-42 to 5-43

'DITL' resource type

- for a control panel 8-6, 8-17 to 8-19
- help items in 3-51 to 3-52, 3-59 to 3-63
- for a monitors extension 8-11, 8-50, 8-54 to 8-55

DocOpenMethod data type 7-41

Document Converter 7-9 to 7-10, 7-47

document opening methods 7-17, 7-41

documents

- batch translation of 7-9
- default icon for 1-130
- drop launching 7-7
- help balloons for icons 3-84 to 3-86
- identifying the type of 7-32 to 7-33
- opening from the Finder 7-5 to 7-7
- opening in an application 7-8 to 7-9
- opening with explicit translation 7-17 to 7-18
- translating. *See* translation of file formats 7-33 to 7-35
- translating on the desktop 7-9 to 7-10
- of type 'TEXT' 7-11

Down Arrow key 4-48

DrawGrowIcon procedure, using to create resizable lists 4-28

DrawText procedure, using to draw text in a cell of a list 4-24

drop launching 7-7, 7-13

DTPBRec data type 9-7 to 9-8

dynamic file-type lists. *See* application translation extensions

dynamic windows, help balloons for 3-74 to 3-84

E

---

Edition Manager, and Macintosh Easy Open 7-4, 7-10  
 editions, translating format of 7-10  
 Edit menu  
     Clear command 2-6  
     and control panels 8-5, 8-46  
     Copy command 2-6  
     Cut command 2-6  
     Paste command 2-6  
     Show Clipboard/Hide Clipboard command 2-10  
 8-bit color icons 5-4, 5-5  
 EndUpdate procedure, and updating lists 4-34  
 events  
     in control panels 8-25 to 8-26  
     handling resume events 2-25 to 2-26  
     handling suspend events 2-19 to 2-20  
     in lists 4-32 to 4-34  
 explicit translation 7-17  
 extend algorithm for extending list selections 4-16 to 4-17  
 ExtendFileTypeList function 7-17, 7-38 to 7-39  
 extensions, default icon for 1-130  
 Extensions folder, icon for 1-132

F

---

file filter functions. *See* Standard File Package, file filter functions  
 file reference numbers  
     defined 1-10  
     for System file's resource fork 1-50  
     used with Resource Manager routines 1-24  
 file reference resources. *See* 'FREF' resource type files  
     data fork of 1-4 to 1-6  
     resource fork of 1-4 to 1-6. *See also* applications; documents  
     user comments associated with 9-3  
 file system specification (FSSpec) records, and Resource Manager routines 1-13  
 FileTranslationList data type 7-28, 7-48 to 7-49  
 file translation lists  
     creating 7-28 to 7-32  
     defined 7-27  
     structure of 7-48 to 7-49  
 FileTranslationSpec data type 7-41  
 file translation systems 7-5  
 FileType data type 7-18  
 FileTypePtr data type 7-39  
 file types  
     declaring those an application can open 7-13 to 7-14, 7-44

    finding those supported by applications 9-14  
     identifying 7-32 to 7-33  
     and Macintosh Easy Open 7-19  
 FileTypeSpec data type 7-30, 7-46 to 7-47  
 file type specifications 7-30, 7-46 to 7-47  
 filters for translating file formats. *See* translation systems  
 Finder  
     and control panels 8-7  
     database for a volume 9-3 to 9-26  
     and Macintosh Easy Open 7-4, 7-5 to 7-7  
 Finder icon help resources. *See* 'hfdx' resource type  
 Finder icons. *See* standard icons  
 FindNextComponent function 6-8, 6-42 to 6-43  
 'finf' resource type 8-7, 8-23, 8-86  
 'FKEY' resource type 1-129  
 folders  
     default icons for 1-131  
     icons for those in the System Folder 1-132  
 font information resource 8-7, 8-23, 8-86  
 fonts  
     in control panels 8-7, 8-23, 8-86  
     in help balloons 3-110 to 3-113  
 Fonts folder, icon for 1-132  
 ForEachIconDo function 5-38 to 5-39  
 4-bit color icons 5-4  
 'FREF' resource type  
     and control panel files 8-7, 8-22, 8-82  
     and monitors extensions files 8-12, 8-57, 8-59  
 FSpCreateResFile procedure 1-25 to 1-26, 1-53 to 1-55  
 FSpOpenResFile function 1-26 to 1-28, 1-58 to 1-62  
 FSSpec data type 1-13, 1-25, 1-54, 1-59  
 function key resource IDs 1-129

G

---

'gama' resource type, and monitor extensions 8-12, 8-59  
 gamma tables, and monitor extensions 8-59  
 Gestalt function  
     and Help Manager 3-18  
     and Icon Utilities 5-8  
     and Resource Manager 1-13 to 1-14  
     and Scrap Manager 2-14  
     and Translation Manager 7-12  
 GetCIcon function 5-29  
 GetComponentIconSuite function 6-49 to 6-50  
 GetComponentInfo function 6-10 to 6-11, 6-48 to 6-49  
 GetComponentInstanceA5 function 6-68 to 6-69  
 GetComponentInstanceError function 6-51 to 6-52  
 GetComponentInstanceStorage function 6-67  
 GetComponentListModSeed function 6-44

## INDEX

GetComponentRefcon function 6-35, 6-71  
GetComponentVersion function 6-50  
GetControlValue function 8-40  
GetDialogItem procedure 8-30, 8-72  
GetFileTypesThatAppCanNativelyOpen  
function 7-17, 7-37 to 7-38  
GetIconCacheData function 5-55  
GetIconCacheProc function 5-56  
GetIconFromSuite function 5-13, 5-34 to 5-35  
GetIcon function 5-14, 5-28 to 5-29  
GetIconSuite function 5-11, 5-13, 5-31 to 5-32  
GetIndResource function 1-99 to 1-100  
GetIndType procedure 1-103  
GetLabel function 5-41 to 5-42  
GetMaxResourceSize function 1-105 to 1-106  
GetNamedResource function 1-75 to 1-76  
GetLIndResource function 1-100 to 1-101  
GetLIndType procedure 1-104  
GetLNamedResource function 1-77 to 1-78  
GetLResource function 1-74 to 1-75  
GetResAttrs function 1-84 to 1-85  
GetResFileAttrs function 1-116 to 1-118  
GetResInfo procedure 1-81 to 1-82  
GetResource function 1-18, 1-73 to 1-74  
GetResourceSizeOnDisk function 1-105  
GetScrap function 2-38 to 2-40, 7-11  
GetSuiteLabel function 5-40

## H

### handles

NIL, returned by Resource Manager routines 1-14,  
1-51  
type-casting, for use by Resource Manager 1-33, 1-39

HCreateResFile procedure 1-56 to 1-57

'hdlg' resource type

compared with 'hrct' resource type 3-57, 3-65, 3-70

example of 3-59 to 3-61, 3-72 to 3-74

options for 3-54

Rez input format for 3-53

Rez output format for 3-140 to 3-148

used with 'hwin' resources 3-68, 3-69 to 3-70

### help balloons

for alert boxes 3-51 to 3-74

for close boxes 3-14 to 3-16, 3-87 to 3-89

content region of 3-93

for controls 3-55

default 3-13 to 3-17, 3-84 to 3-89

defined 3-5

determining whether enabled 3-98

determining whether showing 3-99

for dialog boxes 3-51 to 3-74

displaying 3-8 to 3-13, 3-100 to 3-103

enabling and disabling 3-5, 3-7, 3-107 to 3-108

help messages in

extracting 3-122 to 3-128

font name and size for 3-110 to 3-113

formats 3-23 to 3-24

specifying in a help message record 3-75 to 3-80

user interface guidelines 3-18 to 3-23, 3-37 to 3-38,

3-39 to 3-40, 3-57 to 3-58, 3-70 to 3-71

for icons 3-14, 3-17, 3-84 to 3-86

for menus 3-14 to 3-17, 3-27 to 3-51, 3-103 to 3-105

methods for displaying help balloons 3-8 to 3-13,

3-99 to 3-105

overriding default

for application icons 3-84 to 3-86

for inactive windows 3-87 to 3-89

for window frames 3-87

positioning 3-9 to 3-11, 3-23

removing 3-75, 3-81, 3-105, 3-106

routines for 3-97 to 3-128

sizes of, getting 3-119 to 3-122

structure region of 3-93

tips of. *See* tips of help balloons

user interface guidelines 3-18 to 3-23, 3-37 to 3-38,

3-39 to 3-40, 3-57 to 3-58, 3-70 to 3-71

variation codes for 3-9 to 3-11

for windows 3-14 to 3-16, 3-63 to 3-84, 3-87 to 3-89

for zoom boxes 3-14 to 3-16, 3-87 to 3-89

HelpItem item type 3-62 to 3-63

Help Manager. *See also* help balloons 3-5 to 3-177

application-defined routines for 3-128 to 3-131

data structures in 3-95 to 3-97

resources in 3-132 to 3-165

routines in 3-97 to 3-128

testing for availability 3-18

Help Manager string list record 3-78 to 3-79, 3-97

Help menu

adding items to 3-90 to 3-93

help balloons for 3-13 to 3-16

place in menu bar 3-18

Show/Hide Balloons command 3-7

help message record 3-76 to 3-80, 3-95 to 3-97

help messages. *See* help balloons

help resources

getting and setting 3-114 to 3-119

options for 3-25 to 3-27. *See also* 'hdlg' resource

type; 'hfdr' resource type; 'hmenu' resource

type; 'hovr' resource type; 'hrct' resource

type; 'hwin' resource type

'hfdr' resource type

and control panel files 8-23

example of 3-86

options for 3-85

Rez input format for 3-84

Rez output format for 3-156 to 3-160

Hide/Show Balloons command (Help menu) 3-7

## INDEX

Hide/Show Clipboard command (Edit menu) 2-10  
HMBalloonPict function 3-120 to 3-121  
HMBalloonRect function 3-119 to 3-120  
HMCompareItem identifier 3-124, 3-127  
HMExtractHelpMsg function 3-122 to 3-125  
HMGetBalloons function 3-75, 3-98  
HMGetBalloonWindow function 3-121 to 3-122  
HMGetDialogResID function 3-118 to 3-119  
HMGetFont function 3-110  
HMGetFontSize function 3-111  
HMGetHelpMenuHandle function 3-90 to 3-91, 3-108 to 3-109  
HMGetIndHelpMsg function 3-125 to 3-128  
HMGetMenuResID function 3-115 to 3-116  
HMIsBalloon function 3-99  
HMMessageRecord data type 3-76 to 3-80, 3-95 to 3-97  
'hmnu' resource type  
    example of 3-30 to 3-32, 3-41 to 3-42, 3-44 to 3-45, 3-46, 3-49 to 3-50  
    options for 3-32  
    Rez input format for 3-30, 3-43 to 3-44, 3-45 to 3-46  
    Rez output format for 3-132 to 3-140  
HMRemoveBalloon function 3-75, 3-81, 3-106  
HMScanTemplateItems function 3-116 to 3-117  
HMSetBalloons function 3-107 to 3-108  
HMSetDialogResID function 3-117 to 3-118  
HMSetFont function 3-112  
HMSetFontSize function 3-113  
HMSetMenuResID function 3-50, 3-114 to 3-115  
HMShowBalloon function 3-74 to 3-84, 3-100 to 3-103  
HMShowMenuBalloon function 3-103 to 3-105  
HMStringResType data type 3-78 to 3-79, 3-97  
HomeResFile function 1-71  
HOpenResFile function 1-62 to 1-64  
hot rectangles. *See also* alternate rectangles  
    defined 3-9  
    in dialog and alert boxes 3-56 to 3-57  
    in menus 3-29  
    specifying in dynamic windows 3-74, 3-80  
    specifying in static windows 3-66  
'hovr' resource type 3-160 to 3-165  
    example of 3-89  
    options for 3-88  
    Rez input format for 3-87  
    Rez output format for 3-160 to 3-165  
'hrct' resource type  
    compared with 'hdlg' resource type 3-57, 3-65, 3-70  
    example of 3-71 to 3-72  
    options for 3-67  
    Rez input format for 3-66  
    Rez output format for 3-148 to 3-153  
    used with 'hwin' resources 3-68, 3-69 to 3-70  
'hwin' resource type  
    compared with using HelpItem item 3-63  
    example of 3-71 to 3-72, 3-72 to 3-74

    options for 3-69  
    Rez input format for 3-68  
    Rez output format for 3-154 to 3-156  
    used with 'hdlg' and 'hrct' resources 3-68, 3-69 to 3-74

## I, J

---

'icl4' resource type, as part of an icon family 5-4  
'icl8' resource type  
    as part of an icon family 5-5  
'icm#' resource type 5-7  
'icm4' resource type 5-7  
'icm8' resource type 5-7  
'ICN#' resource type, as part of an icon family 5-4  
icon caches  
    defined 5-9  
    working with 5-53 to 5-57  
icon families  
    defined 5-4 to 5-5  
    drawing an icon from a resource 5-10  
    drawing icons in 5-8 to 5-13  
    drawing specific icons from 5-12 to 5-13  
icon getter function 5-9, 5-58 to 5-59  
IconIDToRgn function 5-44 to 5-45  
icon list resources, as part of an icon family 5-4  
icon masks 5-4  
    converting to a region 5-43 to 5-46  
IconMethodToRgn function 5-45 to 5-46  
icon resources  
    'cicn' 5-6  
    'icl4' 5-4  
    'icl8' 5-4  
    'icm#' 5-7  
    'icm4' 5-7  
    'icm8' 5-7  
    'ICN#' 5-4  
    'ICON' 5-6  
    'ics#' 5-4  
    'ics4' 5-4  
    'ics8' 5-4  
    'SICN' 5-6  
'ICON' resource type  
    and Dialog Manager 5-6  
    drawing 5-13 to 5-17  
    and Menu Manager 5-6  
icons  
    alignment of 5-8, 5-36  
    black and white 5-4  
    color 5-4  
    for components 6-48, 6-59, 6-81  
    for control panel files 8-14  
    default 1-129 to 1-134

## INDEX

- defined 5-3
- designing and creating 5-4
- in desktop database 9-26
  - adding to 9-17 to 9-18
  - getting icon definitions from 9-12 to 9-13
  - removing from 9-25
- in dialog boxes 5-3
- disposing of 5-30
- drawing
  - members of an icon family 5-10
  - from an icon suite 5-11
  - from resources 5-19 to 5-28
  - those that are not part of an icon family 5-13 to 5-17, 5-28 to 5-29
- 8-bit color 5-4, 5-5
- 4-bit color 5-4
- help balloons for 3-13, 3-18, 3-84 to 3-86
- hit testing 5-46 to 5-53
- in icon suite, constants for specifying 5-31
- label information, getting 5-40, 5-41
- large (32-by-32 pixel) 5-4
- manipulating icon data 5-13
- in menus 5-3
- mini 5-7. *See also* icon families; icon resources
- for monitors extension files 8-50
- small (16-by-16 pixel) 5-4, 5-6
- in the System file 1-129 to 1-134
- transform constants 5-37

icon suites

- creating 5-30 to 5-33
- defined 5-9
- disposing of 5-42 to 5-43
- drawing icons from 5-11, 5-35 to 5-38
- getting icons from 5-34 to 5-35
- specifying icons in, constants for 5-31

IconSuiteToRgn function 5-43 to 5-44

Icon Utilities 5-3 to 5-73

- application-defined routines for 5-57 to 5-59
- data structure in 5-17 to 5-18
- routines in 5-18 to 5-57
- testing for availability 5-7

'ics#' resource type, as part of an icon family 5-4

'ics4' resource type, as part of an icon family 5-5

'ics8' resource type, as part of an icon family 5-5

'ictb' resource type

- and control panels 8-23
- and monitors extensions 8-56

implicit translation

- defined 7-4
- of editions 7-10
- while opening documents 7-6, 7-8
- while pasting data 2-21, 2-39, 7-10

inactive windows, help balloons for 3-87 to 3-89

InfoScrap function 2-34 to 2-35

InitResources function 1-50

'INIT' resource type, and monitors extensions 8-12, 8-61

InvalRect procedure, using to stimulate redrawing of a list 4-32

item color table resources

- and control panels 8-23
- and monitors extensions 8-56

item list resources. *See* 'DITL' resource type 8-50

IUMagIDString function, used by LSearch function 4-43

IUMagString function, using to customize a search of a list 4-43

## K

---

Keyboard control panel, and type selection 4-45

keyboard equivalents, and control panels 8-37

keyboard events, handling in control panels 8-37 to 8-39

keyboards, using to navigate lists 4-15 to 4-20, 4-45 to 4-53

key-down events, scrolling lists in response to 4-45 to 4-53

'kind' resource type 7-11, 7-14 to 7-15, 7-45 to 7-46

kind strings 7-14 to 7-15

## L

---

labels, icon 5-22, 5-37, 5-41

LActivate procedure 4-85 to 4-86

LAddColumn function 4-73 to 4-74

LAddRow function 4-74 to 4-75

LAddToCell procedure 4-80 to 4-81

large 4-bit color icon resources, as part of an icon family 5-4

large 8-bit color icon resources, as part of an icon family 5-5

large (32-by-32 pixel) icons 5-4

LAutoScroll procedure 4-88 to 4-89

LCellSize procedure 4-92 to 4-93

LClick function 4-25, 4-33, 4-84 to 4-85

LCloseMsg message 4-62 to 4-63

LClrCell procedure 4-40, 4-81

'LDEF' resource type 4-7, 4-58, 4-98

LDelColumn procedure 4-75 to 4-76

LDelRow procedure 4-76 to 4-77

LDispose procedure 4-72 to 4-73

LDrawMsg message 4-60 to 4-62

LDraw procedure 4-88

Left Arrow key 4-48

LGetCellDataLocation procedure 4-82 to 4-83

## INDEX

- LGetCell procedure 4-41, 4-83
  - LGetSelect function 4-35, 4-77 to 4-78
  - lHiliteMsg message 4-62
  - lInitMsg message 4-60
  - list cells
    - condensed text in 4-5
    - containing several types of information 4-8
    - customizing selection algorithm 4-38 to 4-39
    - defined 4-4
    - selection of 4-9 to 4-15, 4-34 to 4-39
    - size of 4-4, 4-23, 4-28
  - list definition procedure resources 4-7, 4-58, 4-98
  - list definition procedures 4-58 to 4-64, 4-96 to 4-99
    - changing fields of the list record 4-98
    - compiling 4-98
    - entry point of 4-99
    - processing messages in 4-59
    - responding to lCloseMsg message 4-62 to 4-63
    - responding to lDrawMsg message 4-60 to 4-62
    - responding to lHiliteMsg message 4-62
    - responding to lInitMsg message 4-60
    - using global variables in 4-98
    - using to create graphical lists 4-7
  - ListHandle data type 4-23
  - List Manager 4-3 to 4-111
    - application-defined routines for 4-96 to 4-101
    - data structures in 4-65 to 4-69
    - routines in 4-70 to 4-96
  - ListRec data type 4-22 to 4-25, 4-66 to 4-69
  - list record 4-22 to 4-25, 4-66 to 4-69
    - setting selFlags field 4-39
  - lists 4-4. *See also* list cells
    - activating 4-34, 4-85 to 4-86
    - adding items alphabetically 4-41 to 4-42
    - appearance of 4-4 to 4-8
    - arrow-key navigation in 4-48 to 4-53
    - automatic drawing mode 4-32, 4-87 to 4-88
    - borders around, drawing 4-30
    - cell data, accessing 4-25, 4-79 to 4-83
    - creating 4-27 to 4-30, 4-70 to 4-72
    - creating a list of pictures 4-63 to 4-64
    - data bounds of 4-28
    - discontiguous selections in 4-11
    - disposing of 4-30, 4-72 to 4-73
    - double click in 4-33
    - events in, responding to 4-32 to 4-34, 4-84 to 4-86
    - graphical items in 4-7, 4-63 to 4-64
    - introduced 4-4 to 4-8
    - keyboard navigation of 4-15 to 4-20, 4-45 to 4-53
    - location of last click, determining 4-24
    - multiple in a window 4-20 to 4-21
    - outline around current 4-20 to 4-21, 4-53 to 4-57
    - outline of 4-20
    - redrawing 4-33 to 4-34, 4-86
    - scroll bars in 4-5 to 4-6, 4-8
    - scrolling 4-24, 4-25, 4-36 to 4-37, 4-88 to 4-90
    - searching in 4-43 to 4-44, 4-90 to 4-91
    - selection algorithm, customizing 4-14 to 4-15, 4-38 to 4-39
    - selection of items in 4-9 to 4-15, 4-34 to 4-39
    - size box in 4-8
    - type selection in 4-20, 4-45 to 4-48
    - visible cells of 4-23
  - LLastClick function 4-24, 4-96
  - LNew function 4-70 to 4-72
  - LNextCell function 4-35, 4-93 to 4-94
  - LoadIconCache function 5-54 to 5-55
  - LoadResource procedure 1-80 to 1-81
  - LoadScrap function 2-41
  - localization guidelines, for Help Manager 3-20
  - LRect procedure 4-95
  - LScroll procedure 4-89 to 4-90
  - LSearch function 4-90 to 4-91
  - LSetCell procedure 4-79 to 4-80
  - LSetDrawingMode procedure 4-32, 4-87
  - LSetSelect procedure 4-36, 4-78 to 4-79
  - LSize procedure 4-91 to 4-92
  - LUpdate procedure 4-86
- ## M
- 
- 'mach' resource type 8-6, 8-20 to 8-21, 8-29, 8-84 to 8-85
  - machine resources 8-6, 8-20 to 8-21, 8-29, 8-84 to 8-85
  - Macintosh Easy Open 7-3 to 7-75
    - application guidelines 7-10 to 7-11
    - capabilities 7-4 to 7-10
    - defined 7-4
    - and Edition Manager 7-4, 7-10
    - and Finder 7-4, 7-5 to 7-7
    - and Scrap Manager 7-4, 7-10
    - and Standard File Package 7-4, 7-8 to 7-9
  - MakeIconCache function 5-53 to 5-54
  - manufacturer code for components 6-4, 6-39, 6-53
  - match functions 4-99 to 4-100
  - MaxSizeRsrc function. *See* GetMaxResourceSize function
  - menu commands
    - Clear (Edit menu) 2-6
    - Copy (Edit menu) 2-6
      - handling 2-19
    - Cut (Edit menu) 2-6, 2-10 to 2-11
      - handling 2-15 to 2-19
    - Paste (Edit menu) 2-6, 2-10 to 2-11
      - handling 2-20 to 2-25, 2-28 to 2-31
    - Show/Hide Balloons (Help menu) 3-7
    - Show/Hide Clipboard (Edit menu) 2-10, 2-25
  - menu help resources. *See* 'hmenu' resource type

## INDEX

menu items. *See also* menu commands  
  adding to Help menu 3-90 to 3-93  
  help balloons for 3-39 to 3-51  
menus. *See also* menu commands  
  help balloons for 3-14 to 3-16, 3-27 to 3-51, 3-103 to 3-105  
menu titles, help balloons for 3-36 to 3-38  
mini 4-bit color icon resources 5-7  
mini 8-bit color icon resources 5-7  
mini icon list resources 5-7  
mini icons, defined 5-7  
missing items, help balloons for  
  in 'hdlg' resources 3-54 to 3-56  
  in 'hmnv' resources 3-33 to 3-36  
  in 'hovr' resources 3-88  
'mnr' resource type 8-11, 8-56, 8-88  
monitor code resources 8-11, 8-56  
Monitors control panel 8-3, 8-9  
  features 8-10  
  and the Options dialog box 8-10, 8-52  
monitors extension functions 8-61 to 8-73, 8-78 to 8-82  
  allocating memory for 8-66  
  error handling 8-63, 8-82  
  and keyboard-related events 8-73  
  modifying the rectangle resource for 8-66  
  and mouse-related events 8-71  
  performing initialization 8-68  
monitors extensions 8-9 to 8-12  
  optional resources 8-11, 8-56  
  required resources 8-11, 8-51 to 8-56, 8-83  
  user interface guidelines for 8-49 to 8-51, 8-52 to 8-56  
mouse-down events, in lists 4-33  
'movv' scrap format type 2-33  
multicolumn lists, containing fewer items than columns 4-7

## N

---

Network control panel 4-7  
NewIconSuite function 5-32 to 5-33  
NIL handle  
  in a resource map 1-18  
  returned by Resource Manager routines 1-14, 1-51  
'nrct' resource type 8-6, 8-13, 8-15 to 8-17, 8-82, 8-85 to 8-86

## O

---

OpenComponent function 6-46  
OpenComponentResFile function 6-72

OpenDefaultComponent function 6-7 to 6-8, 6-45 to 6-46  
open request 6-19 to 6-20  
OpenResFile function 1-66 to 1-68  
'open' resource type 7-10, 7-13 to 7-14, 7-44  
OpenRFPPerm function 1-64 to 1-66  
Options dialog box 8-10  
  and controls for superusers 8-51  
  defining the display area for controls 8-50  
  and monitors extension controls 8-54  
  standard controls 8-10  
  supplying the icon for 8-57  
outlining the current list 4-53 to 4-57

## P

---

package resource IDs 1-128  
package resources 1-128  
packages 1-128  
'PACK' resource type 1-128  
partial resources 1-40 to 1-41  
Paste command (Edit menu) 2-6, 2-10 to 2-11  
PBDTAddAPPL function 9-18 to 9-19  
PBDTAddIcon function 9-17 to 9-18  
PBDTCloseDown function 9-11  
PBDTDelete function 9-26  
PBDTFlush function 9-23  
PBDTGetAPPL function 9-15 to 9-16  
PBDTGetComment function 9-16  
PBDTGetIcon function 9-12 to 9-14  
PBDTGetIconInfo function 9-14 to 9-15  
PBDTGetInfo function 9-24  
PBDTGetPath function 9-9 to 9-10  
PBDTOpenInform function 9-10 to 9-11  
PBDTRemoveAPPL function 9-21  
PBDTRemoveComment function 9-22  
PBDTReset function 9-25  
PBDTSetComment function 9-19 to 9-20  
'PICT' resource type, and help messages 3-24  
'PICT' scrap format type 2-33  
picture resources, and help messages 3-24  
PlotCIconHandle function 5-16, 5-26 to 5-27  
PlotCIcon procedure 5-15, 5-25 to 5-26  
PlotIconHandle function 5-15, 5-24 to 5-25  
PlotIconID function 5-10, 5-20 to 5-22  
PlotIconMethod function 5-22 to 5-23  
PlotIcon procedure 5-14, 5-23 to 5-24  
PlotIconSuite function 5-11, 5-13, 5-35 to 5-38  
PlotSICNHandle function 5-16, 5-27 to 5-28  
point-to-point translation 7-30  
preferences files  
  and control panels 8-30  
  default icon for 1-130

## INDEX

- and monitors extensions 8-71
- resources in 1-13
- Preferences folder, icon for 1-132
- printer, determining type in use 1-127
- PrintMonitor Documents folder, icon for 1-132
- private scrap
  - reading data from 2-24 to 2-25, 2-25 to 2-26
  - writing data to 2-18 to 2-19
- progress dialog box. *See* translation progress dialog box
- PScrapStuff data type 2-32
- PtInIconID function 5-48
- PtInIconMethod function 5-49 to 5-50
- PtInIconSuite function 5-47
- PtInRect function
  - using to determine if a cell is in a list 4-24
  - using to determine if a list cell is visible 4-23
- PutScrap function 2-36 to 2-37

## Q

---

- query documents, default icon for 1-130

## R

---

- ReadPartialResource procedure 1-111 to 1-113
- 'RECT' resource type 8-11, 8-52
- rectangle help resources. *See* 'hrct' resource type
- rectangle positions resource 8-6, 8-15, 8-85 to 8-86
- rectangle resources 8-11, 8-52 to 8-53
- RectInIconID function 5-51
- RectInIconMethod function 5-52 to 5-53
- RectInIconSuite function 5-50 to 5-51
- reference number 9-5. *See also* file reference numbers
  - determining for desktop database 9-9 to 9-11
  - of desktop database 9-5
- RegisterComponent function 6-31, 6-57 to 6-59
- RegisterComponentResourceFile function 6-61 to 6-62
- RegisterComponentResource function 6-31, 6-59 to 6-61
- register request 6-23 to 6-24
- ReleaseResource procedure 1-22, 1-107
- RemoveResource procedure 1-109 to 1-110
- request codes, for components 6-19, 6-29
- ResEdit resource editor 1-15 to 1-17
- ResErr global variable 1-51
- ResError function 1-51 to 1-52
- resource attributes
  - defined 1-8
  - getting and setting 1-81 to 1-87
- resource files. *See* resource forks

- resource forks 1-4 to 1-6. *See also* current resource file
  - closing 1-110 to 1-111
  - creating 1-25 to 1-28, 1-53 to 1-58
  - file format for 1-121 to 1-125
  - getting and setting attributes of 1-116 to 1-119
  - opening 1-24 to 1-30, 1-58 to 1-68
  - reading resources from 1-30 to 1-35, 1-71 to 1-81
  - resource data, format of 1-122
  - resource header, format of 1-122
  - resource name list, format of 1-124
  - resource type list, format of 1-123
  - writing resources to 1-36 to 1-40, 1-92 to 1-95
- resource IDs 1-46 to 1-49
  - defined 1-6
  - for function key resources 1-129
  - getting unique 1-95 to 1-97
  - for owned resources 1-47
  - for packages 1-128 to 1-129
  - restrictions on 1-46 to 1-47
- Resource Manager 1-3 to 1-148
  - data structure, types, and IDs 1-42 to 1-49
  - initializing 1-50
  - routines in 1-49 to 1-120
  - testing for features of 1-13 to 1-14
- resource maps
  - accessing entries in 1-119 to 1-120
  - defined 1-9
  - format of 1-123
  - ROM, inserting in resource search path 1-134 to 1-135
- resources. *See also* resource types
  - bundle. *See* 'BNDL' resource type
  - card 8-11, 8-52, 8-87
  - changing 1-87 to 1-91
  - color icon 5-6
  - component 6-33, 6-61 to 6-62, 6-80 to 6-85, 7-18, 7-20 to 7-21
  - control device code 8-7, 8-25 to 8-48, 8-74 to 8-77
  - copying 1-24
  - counting and indexing 1-34
  - counting and listing resource types 1-97 to 1-101
  - creating 1-15 to 1-18
  - default help override. *See* 'hovr' resource type
  - defined 1-3
  - dialog color table. *See* 'dctb' resource type
  - dialog-item help. *See* 'hdlg' resource type
  - disposing of 1-106 to 1-110
  - file reference. *See* 'FREF' resource type
  - Finder icon help. *See* 'hfdi' resource type
  - font information 8-7, 8-23, 8-86
  - function keys 1-129
  - gamma tables 8-59. *See* 'gama' resource type
  - getting and setting information about 1-81 to 1-87
  - getting a unique ID 1-95 to 1-97
  - getting handles to 1-18 to 1-21

## INDEX

- icon. *See* icon resources
  - icon family. *See* icon families
  - item color table 8-23. *See* 'ictb' resource type
  - item list. *See* 'DITL' resource type
  - kind 7-11, 7-14 to 7-15, 7-45 to 7-46
  - list definition procedure 4-58, 4-98
  - locations of, typical 1-12
  - machine 8-6, 8-20 to 8-21, 8-29, 8-84 to 8-85
  - menu help. *See* 'hmnv' resource type
  - modifying 1-87 to 1-91
  - monitor code 8-11, 8-56, 8-88
  - open 7-10, 7-13 to 7-14, 7-44
  - owned 1-47
  - partial 1-40 to 1-41, 1-111 to 1-116
  - in preferences files 1-13
  - reading 1-30 to 1-35, 1-40 to 1-41, 1-71 to 1-81
  - rectangle 8-11, 8-52 to 8-53
  - rectangle help. *See* 'hrct' resource type
  - rectangle positions 8-6, 8-15, 8-85 to 8-86
  - releasing and detaching 1-22 to 1-24
    - and ResEdit 1-15 to 1-17
    - and Rez resource compiler 1-15 to 1-17
  - ROM 1-134 to 1-136
  - ROM override 1-135 to 1-136
  - search path for 1-10 to 1-12
  - size of, getting 1-104 to 1-106
  - small icon 5-6, 5-13, 5-16 to 5-17
  - for standard icons 1-129 to 1-134
  - standard types 1-43 to 1-45
  - system extension. *See* 'INIT' resource type
  - in System file 1-7, 1-126 to 1-134
  - user information 1-127 to 1-129
  - window help. *See* 'hwin' resource type
  - writing 1-36 to 1-40, 1-40 to 1-41, 1-92 to 1-95
- ResourceSpec data type 6-82, 7-20
- resource types. *See also* resources
- available for application's use 1-43 to 1-45
  - 'BNDL' 8-7, 8-22, 8-57
  - 'card' 8-11, 8-51 to 8-52, 8-87
  - 'cdev' 8-7, 8-25 to 8-47, 8-74 to 8-77
  - 'cicn' 5-6
  - 'dctb'. *See* 'dctb' resource type
  - defined 1-6
  - 'DITL'. *See* 'DITL' resource type 8-6
  - 'finf' 8-7, 8-23, 8-86
  - 'FKEY' 1-129
  - 'gama' 8-12, 8-59
  - 'hdlg'. *See* 'hdlg' resource type
  - 'hfdr'. *See* 'hfdr' resource type
  - 'hmnv'. *See* 'hmnv' resource type
  - 'hovr'. *See* 'hovr' resource type
  - 'hrct'. *See* 'hrct' resource type
  - 'hwin'. *See* 'hwin' resource type
  - 'icl4' 5-4
  - 'icl8' 5-5
  - 'icm#' 5-7
  - 'icm4' 5-7
  - 'icm8' 5-7
  - 'ICN#' 5-4
  - 'ICON' 5-6, 5-13 to 5-15
  - 'ics#' 5-4
  - 'ics4' 5-5
  - 'ics8' 5-5
  - 'ictb'. *See* 'ictb' resource type
  - 'INIT'. *See* 'INIT' resource type
  - 'kind' 7-11, 7-14 to 7-15, 7-45 to 7-46
  - 'LDEF' 4-7, 4-58, 4-98
  - list of standard 1-43 to 1-45
  - 'mach' 8-6, 8-20 to 8-21, 8-29, 8-84 to 8-85
  - 'mnr' 8-11, 8-56, 8-88
  - 'nrct' 8-6, 8-13, 8-15 to 8-17, 8-82, 8-85 to 8-86
  - 'open' 7-10, 7-13 to 7-14, 7-44
  - 'PACK' 1-128
  - 'RECT' 8-11, 8-50, 8-52
  - reserved for Operating System's use 1-46
  - ResType data type 1-42
  - 'ROV#' 1-135 to 1-136
  - 'SICN' 5-6
  - 'STR#'. *See* 'STR#' resource type
  - 'STR'. *See* 'STR' resource type
  - 'thng'. *See* 'thng' resource type
- ResType data type 1-42
- resume events
- handling 2-25 to 2-26
  - updating type-selection threshold after 4-46
- Rez resource compiler 1-15 to 1-17
- RGetResource function 1-78 to 1-79
- Right Arrow key 4-48
- RmvResource procedure. *See* RemoveResource procedure
- ROM override resource 1-135 to 1-136
- ROM-resident resources 1-70, 1-134 to 1-136
  - overriding 1-135 to 1-136
- ROM resource map 1-70, 1-134
- 'ROV#' resource type 1-135 to 1-136
- RsrcMapEntry function 1-120
- RsrcZoneInit procedure 1-50 to 1-51

## S

---

### sample routines

- DoCutOrCopyCommand 2-16, 2-18, 2-29
  - DoGetFileTranslationList 7-30
  - DoIdentifyFile 7-33
- sample routines (*continued*)
- DoMenuCommand 3-92
  - DoPasteCommand 2-21, 2-24, 2-30
  - DoPictBalloon 3-77

## INDEX

DoPictBalloon2 3-78  
DoStringListBalloon 3-79  
DoStyledTextBalloon 3-80  
DoSuspendResumeEvent 2-19, 2-25  
DoTextStringBalloon 3-77  
DoTranslateFile 7-34  
DrawerSetup 6-28  
FindAndShowBalloon 3-82  
MyActivateControlPanel 8-35  
MyAddIconToList 4-64  
MyAddItemAlphabetically 4-42  
MyAddItemsFromStringList 4-31  
MyAdjustMenusForDialogs 3-50  
MyArrowKeyExtendSelection 4-51  
MyArrowKeyInList 4-52  
MyArrowKeyMoveSelection 4-50  
MyClearAllCellData 4-40  
MyCloseControlPanel 8-45  
MyConvertScrap 2-27  
MyCopyAResource 1-24  
MyCreateAndOpenResourceFork 1-27  
MyCreateResourceFork 1-26  
MyCreateTextListInDialog 4-29  
MyCreateVerticallyScrollingList 4-27  
MyDoOpenSoundResources 1-34  
MyDrawIconFromFamily 5-10  
MyDrawIconInSuite 5-11  
MyDrawListBorder 4-30  
MyDrawOutline 4-54  
MyDrawRect 8-70  
MyDrawThisIcon 5-12  
MyFindNewCellLoc 4-49  
MyFindVideoComponent 6-9  
MyGetAndPlayRewardSoundResource 1-29  
MyGetAndPlaySoundResource 1-22  
MyGetCellData 4-41  
MyGetCompInfo 6-10  
MyGetComponent 6-10  
MyGetDirectAccessToCellData 4-41  
MyGetFirstSelectedCell 4-34  
MyGetIconData 5-13  
MyGetLastSelectedCell 4-35  
MyHandleEditCommand 8-46  
MyHandleHitInDialogItem 8-41  
MyHandleHits 8-72  
MyHandleInitMsg 8-69  
MyHandleKeyEvent 8-38  
MyHandleMouseDownInList 4-33  
MyInitialize 1-25  
MyInitializeCP 8-31  
MyKeySearchInList 4-47  
MyLDEF 4-59  
MyLDEFClose 4-63  
MyLDEFDraw 4-61  
MyLDEFHighlight 4-62

MyLDEFInit 4-60  
MyMakeCellVisible 4-37  
MyMatchNextAlphabetically 4-44  
MyMonExtend 8-64  
MyOutlineNextList 4-57  
MyOutlinePreviousList 4-57  
MyPlotAcicn 5-15  
MyPlotAcicnWithAlignAndTransform 5-16  
MyPlotAnICON 5-14  
MyPlotAnICONWithAlignAndTranform 5-15  
MyPlotAnSICNWithAlignAndTranform 5-16  
MyReadAPartial 1-41  
MyResetTypeSelection 4-46  
MySaveWindowPosition 1-38 to 1-39  
MySearchPartialMatch 4-43  
MySelectOneCell 4-36  
MySetCellSizeForIconList 4-63  
MySetUpData 8-67  
MySetWindowPosition 1-32  
MyShowBalloonForDimMenuTitle 3-124  
MyTrackList 4-55  
MyUpdateControlPanel 8-43  
MyUpdateList 4-33  
MyUpdateListOutlines 4-56  
OvalCanDo 6-22  
OvalClick 6-27  
OvalClose 6-21  
OvalDraw 6-27  
OvalDrawer 6-16 to 6-18  
OvalErase 6-27  
OvalMoveTo 6-28  
OvalOpen 6-20  
OvalSetUp 6-26  
RectangleDrawer 6-36  
RiverCP 8-27  
TranslateEntry 7-25  
scrap  
  converting data between a private scrap and 2-9 to 2-10, 2-26 to 2-28  
  converting data between the TextEdit scrap and 2-28 to 2-30  
  defined 2-4  
  location of 2-12 to 2-14  
  reading data from 2-20 to 2-24, 2-25 to 2-26  
  translating format of 7-10, 7-19, 7-21  
  using a private 2-4, 2-9  
  writing data to 2-8 to 2-10, 2-15 to 2-17, 2-19 to 2-20  
scrap file 2-33, 2-40  
scrap format types 2-33  
  'movv' 2-33  
  'PICT' 2-33  
  'snd ' 2-33  
  standard 2-7, 2-33  
  'styl' 2-33  
  'TEXT' 2-33

## INDEX

- scrap information record 2-32 to 2-33
- Scrap Manager
  - data types in 2-32 to 2-33
  - routines in 2-34 to 2-41
  - and Standard File Package 2-31
  - testing for features 2-14
  - and TextEdit 2-28 to 2-30
  - and Translation Manager 2-7, 2-10, 7-4, 7-10, 7-11
- ScrapStuff data type 2-32 to 2-33
- ScrapTranslationList data type 7-49 to 7-50
- scrap translation lists 7-49 to 7-50
- scrap translation systems 7-5
- ScrapType data type 7-18
- scrap types. *See also* scrap format types
  - 'stxt' 7-19
  - 'styl' 7-19
  - 'TEXT' 7-19
- ScrapTypeSpec data type 7-49
- scrap type specifications 7-49
- screen shots 1-129
- scroll bars
  - help balloon for 3-16
  - in lists 4-5 to 4-6, 4-8
  - width of 4-23
- search path, for resources 1-10 to 1-12
- SetComponentInstanceA5 procedure 6-68
- SetComponentInstanceError procedure 6-28, 6-69 to 6-70
- SetComponentInstanceStorage procedure 6-19, 6-66 to 6-67
- SetComponentRefcon procedure 6-35, 6-70 to 6-71
- SetControlValue procedure 8-30, 8-72
- SetDefaultComponent function 6-78 to 6-79
- SetIconCacheData function 5-56
- SetIconCacheProc function 5-57
- SetResAttrs procedure 1-85 to 1-87
- SetResFileAttrs procedure 1-118 to 1-119
- SetResInfo procedure 1-82 to 1-83
- SetResLoad procedure 1-79 to 1-80
- SetResourceSize procedure 1-115 to 1-116
- SetResPurge procedure 1-94 to 1-95
- SetSuiteLabel function 5-40 to 5-41
- SetTranslationAdvertisement function 7-35, 7-51 to 7-52
- Shift key, use of in lists 4-10 to 4-11
- Show/Hide Balloons command (Help menu) 3-7
- Show/Hide Clipboard command (Edit menu) 2-10, 2-25
- 'SICN' resource type 5-6
  - drawing 5-13 to 5-17
- signatures, finding applications with specific 9-15 to 9-16
- 16-by-16 pixel (small) icons 5-4, 5-6
- size boxes
  - help balloon for 3-16
  - using in lists 4-8
- SizeResource function. *See* GetResourceSizeOnDisk function
- small 4-bit color icon resources, as part of an icon family 5-5
- small 8-bit color icon resources, as part of an icon family 5-5
- small icon list resources, as part of an icon family 5-4
- small icons 5-6. *See also* icon resources
- 'snd ' scrap format type 2-33
- standard file dialog boxes
  - help balloons for 3-15
  - icons in 1-133 to 1-134
- Standard File Package
  - default icons used by 1-133
  - file filter functions 7-11, 7-16
  - icons used by 1-133 to 1-134
  - and Macintosh Easy Open 7-4, 7-8 to 7-9
  - small color icons in dialog boxes 7-8
  - and Scrap Manager 2-31
- standard icons 1-129 to 1-134
  - desktop 1-133 to 1-134
  - documents and applications 1-130
  - folders 1-131 to 1-133
- StandardOpenDialog function 7-14, 7-16
- Startup Items folder, icon for 1-132
- startup process, and Resource Manager 1-50 to 1-51
- static type lists. *See* 'open' resource type
- static windows, help balloons for 3-63 to 3-74
- stationery documents
  - default icon for 1-130
  - and Macintosh Easy Open 7-10
- 'STR#' resource type, and help messages 3-24
- string list resources, and help messages 3-24
- string resources, and help messages 3-24
- strings, putting into list cells 4-31
- 'STR ' resource type, and help messages 3-24
- structure regions of help balloons 3-93
- style resources, and help messages 3-24
- styles, of text in lists 4-7
- 'styl' resource type, and help messages 3-24
- 'styl' scrap format type 2-33
- suspend events, handling 2-19 to 2-20
- system extensions
  - and control panels 8-8
  - default icon for 1-130
  - and monitors extension files 8-61
  - where to install 8-8
- System file
  - file reference number for resource fork 1-50
  - icon resources in 1-129 to 1-134
  - resources in 1-126 to 1-134
    - application icons 1-129 to 1-130
    - desktop icons 1-133
    - document icons 1-129 to 1-130

## INDEX

- folder icons 1-131
- Standard File Package icons 1-133 to 1-134
- System Folder icons 1-132
- user information 1-127 to 1-128

System Folder, icon for 1-132

system resource map 1-70, 1-134

system startup 1-50

## T

---

Tab key, using to change active list 4-21

target request 6-25 to 6-26

TECopy procedure 2-28, 2-31

TECut procedure 2-28, 2-31

TEFromScrap procedure 2-28, 2-30

TEPaste procedure 2-28, 2-31

TEToScrap procedure 2-28, 2-30

TextEdit, and Scrap Manager 2-28 to 2-30

'TEXT' file type, proper use of 7-11

text resources, and help messages 3-24

'TEXT' resource type, and help messages 3-24

'TEXT' scrap format type 2-33

32-by-32 pixel (large) icons 5-4

'thng' resource type

- format of 6-80 to 6-85
- Rez input for 6-33
- and translation extensions 7-19 to 7-21

tip function, creating 3-128, 3-130 to 3-131

tips of help balloons

- defined 3-9
- for help balloons in menus 3-29
- specifying in dynamic windows 3-80
- specifying in 'hdlg' resources 3-56
- specifying in 'hrct' resources 3-67

transforms, for Icon Utilities routines

- constants for 5-37
- defined 5-8

TranslateEntry function 7-24 to 7-26

TranslateFile function 7-18, 7-42 to 7-43

translation extensions 7-18 to 7-35, 7-46 to 7-62

- data types used in 7-46 to 7-50
- defined 7-4
- opening resource files 7-27
- resources in 7-22 to 7-23
- routines defined in 7-27 to 7-35, 7-54 to 7-62
- routines used in 7-50 to 7-54
- runtime environment 7-26

translation file types 7-19

translation groups 7-28

Translation Manager 7-3 to 7-18, 7-36 to 7-46

- and Edition Manager 7-12
- relation to Macintosh Easy Open 7-4
- resources in 7-43 to 7-46

- routines in 7-36 to 7-43
- and Scrap Manager 2-7, 2-10, 7-11
- and Standard File Package 7-11, 7-12
- testing for availability 7-12, 7-36

translation of file formats 7-3 to 7-58

- explicit 7-17 to 7-19, 7-36 to 7-43
- implicit 7-6 to 7-8

translation progress dialog box

- advertisement in 7-22
- displaying 7-35
- and implicit translation 7-10
- routines for displaying 7-51 to 7-54
- shown 7-7
- source of types 7-47
- updating 7-35

translation systems 7-4

12-by-16 pixel (mini) icons 5-7

TypesBlock data type 7-37

type selection

- introduced 4-20
- supporting 4-45 to 4-48

type-selection threshold 4-45

- formula for computing 4-46

## U

---

UncaptureComponent function 6-76

UniqueID function 1-96

Unique1ID function 1-96 to 1-97

UnloadScrap function 2-40

UnregisterComponent function 6-62

unregister request 6-24 to 6-25

Up Arrow key 4-48

update events

- handled by the Help Manager 3-26, 3-81 to 3-82
- in lists 4-33 to 4-34

UpdateResFile procedure 1-92 to 1-93

UpdateTranslationProgress function 7-35, 7-52 to 7-54

user comments

- removing 9-22
- retrieving from desktop database 9-16
- setting 9-19 to 9-20

UseResFile procedure 1-69 to 1-71

user information resources 1-127

user interface guidelines

- for control panels 8-12 to 8-14
- for handling copy and paste 2-6 to 2-8, 2-10 to 2-11
- for Help Manager 3-18 to 3-23, 3-37 to 3-38, 3-39 to 3-40, 3-57 to 3-58, 3-70 to 3-71
- for lists 4-4 to 4-21
- for monitors extensions 8-49 to 8-51

user name 1-127

## INDEX

### V

---

variation codes for help balloons 3-9 to 3-11  
version request 6-22 to 6-23  
video cards  
    icons for 8-57  
    and Monitors control panel 8-10  
    and sResource data structure 8-57  
volumes, Finder's desktop database for 9-3 to 9-26

### W, X, Y

---

window frames, help balloons for 3-13 to 3-16, 3-87 to 3-89  
window help resources. *See* 'hwin' resource type  
windows  
    containing multiple lists 4-20 to 4-21  
    help balloons for 3-13 to 3-16, 3-63 to 3-84, 3-87 to 3-89  
    position of lists in 4-8  
WritePartialResource procedure 1-113 to 1-115  
WriteResource procedure 1-93 to 1-94

### Z

---

ZeroScrap function 2-35  
    using TextEdit with 2-28, 2-35  
zoom boxes, help balloons for 3-14 to 3-16, 3-87 to 3-89

This Apple manual was written, edited, and composed on a desktop publishing system using Apple Macintosh computers and FrameMaker software. Proof pages were created on an Apple LaserWriter Pro printer. Final page negatives were output directly from text files on an Optrotech SPrint 220 imagesetter. Line art was created using Adobe™ Illustrator and Adobe Photoshop. PostScript™, the page-description language for the LaserWriter, was developed by Adobe Systems Incorporated.

Text type is Palatino® and display type is Helvetica®. Bullets are ITC Zapf Dingbats®. Some elements, such as program listings, are set in Apple Courier.

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Special thanks to Elizabeth Moller,  
Dean Yu, Beverly Zegarski.

Acknowledgments to Dave Collins,  
Chris DeRossi, Bill Guschwan,  
Peter Hoddie, Nick Kledzik,  
Wendy Krafft, Guillermo Ortiz,  
Frank Stanbach, John Wang, and the  
entire *Inside Macintosh* team.