NewtCase

Version 3.1

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NewtCase 3.1
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Registration Number_____

Contents

Introduction

Overview of the NewtCase suite

NewtCase is a suite of utilities that allow you customize your Newton's interface, have more control over your packages and memory use, manage your power use, and get more information about your system. "Power Users" can also do soup editing and create their own scripts for use with Gesture Launch. The utilities in the NewtCase suite can be installed separately, and do not require the other parts be installed to run. However, some of the utilities may require you to install more than one package to use all of their functions. The utilities, their function, and their associated packages are listed below.

Note: The package names may be followed by version numbers in the file you received.

Application	Associated package(s)	Description
Package Manager	pkmgr.pkg	Displays package information, enables freezing and thawing of packages.
Extensions Manager	extmgr.pkg	Allows you to designate "sets" of packages to be frozen, thawed and launched together.
Desktop	dsktp.pkg	Provides a memory saving backdrop with a customizable button bar.
	tiles.pkg	Provides different background patterns for your backdrop.

	rotate.pkg	Puts a screen rotation button on the desktop button bar.
QuickPicker	qckpk.pkg	Provides a pop-up overview of the extras drawer contents.
SleepAid	sa.pkg	Control the shut-off time of your Newton based on battery or plugged-in power.
NewtInfo	ni.pkg	Generates reports about the system.
SoupKitchen	soup.pkg	View and delete system soups.
GestureLaunch for Newton 2.0	gl.pkg	Launch packages or execute scripts with a gesture written over the button of your choice on the built-in button bar.
	scripts20.pkg	Pre-written GestureLaunch scripts.

For 2.1 or later operating system only:

GestureLaunch for Newton 2.1

	glbk.pkg	Launch packages or execute scripts with a letter or number written over the button of your choice on the built-in button bar. Includes BarKeep, which allows you to customize the appearance and size of the built-in button bar and it's icons.
	scripts21.pkg	Pre-written GestureLaunch scripts.
	newstats.pkg script.	Enables heap measurement

NewtCase

Freezing, Thawing, and Heap Memory

Heap Memory (DRAM) is similar to RAM on a desktop computer. It is the memory the Newton uses to run applications, and the amount you have available can affect the performance of those applications. If you've ever seen the message "The Newton does not have enough free memory to do what you asked", you've run out of Heap memory. Heap memory is not the same as the storage memory, and cannot be expanded with Flash memory cards.

Generally, the more heap space you have available, the better your applications will perform. The MessagePad 2000, eMate 300, and MessagePad 130 have 1 Megabyte of Heap memory, the MessagePad 120 has 512k. The majority of this memory is used by the system and the built-in applications, leaving a small portion of the memory left for the operation of programs on your Newton. When you run an application, it uses the remaining heap space to operate. When you run more than one program, they are competing for that free space. Unfortunately, applications use up some heap memory whether or not they are running. The more programs you have installed, the more space is used. The remedy for this problem is to "Freeze", or disable, packages when they are not in use. When a package is frozen, it doesn't use any heap space, increasing the amount available to the other programs that you are trying to use. When a package is frozen, any features it adds to the Newton (e.g., Find, Assist, Printing) are not available.

Frozen packages have to be thawed (reactivated) before you can use them. NewtCase makes it easier for you to use a package that is frozen by automatically thawing and launching it when you tap it's icon, and by automatically freezing it again when it is closed. Extensions manager adds further to this functionality by allowing you to create "sets" of packages where each package knows whether it should freeze or thaw when the set's icon is tapped. Tasks such as thawing all the parts you need for web-browsing become a one step process. See the following chapters for a further explanation of the features Package Manager and Extension Manager add to your Newton.

Information for previous users of NewtCase

If you were a NewtCase 3.0 user, the applications that had the most changes with this version are Extensions Manager, SleepAid, and for Newton 2.1 users, GestureLaunch. The interfaces for both Extensions Manager and GestureLaunch for Newton 2.1 are completely new, so you'll want to take a look at those chapters in this manual.

If you used NewtCase 2.2 or earlier, all of the utilities will be new to you, so we recommend using this manual to get acquainted with the new versions!

Compatibility note: Sets created with Extensions Manager 1.0 will not be compatible with Extensions Manager 2.0. If you have Extensions Manager 1.0 installed, you should delete your old sets before deleting it to install the new version.

Package Manager

Package Manager adds the ability to freeze and thaw packages to the Extras Drawer, as well as offering an alternative interface and enhanced features for package management. The Package Manager application doesn't have to be running in order to utilize it's features. Once Package Manager is installed, the freeze/thaw features are automatically added to the Extras Drawer in it's Routing ▣ menu. However, running the Package Manager application can be useful for managing large numbers of packages at once, and it is generally faster than using the Extras drawer.

Package Manager offers several advantages over other applications that simply enable the freeze feature of the operating system. When you tap a frozen package with Package Manager installed, it is thawed, launched, and then refrozen again when it's closed. When a package is frozen without Package Manager installed, it appears as a large snowflake. With Package Manager installed, frozen icons retain their original appearance but are dimmed with a small snowflake attached. Also, the "Freeze" command in the Extras drawer changes so that it will thaw selected frozen packages, enabling you to thaw multiple packages at once.

If you're not familiar the advantages of freezing packages, see the Introduction in this manual for a discussion of Heap Memory.

Installation

You should install the Package Manager on your Internal store. Package Manager will work if installed on a card, but you will lose all of it's functionality if the card is removed. If you never plan remove your card, you can safely put NCPM on the card.

Using the Package Manager Application

To open the Package Manager, tap it's icon in the Extras drawer.
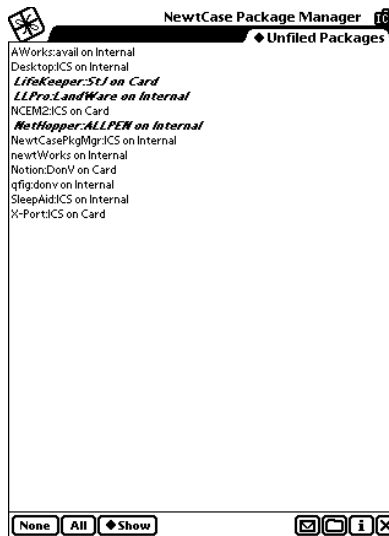
When you first launch the Package Manager, it will display a list of all packages on all stores. Frozen packages will appear in a bold italic typeface. Only those packages on which you can actually perform actions will be displayed - packages which are built-in to the ROM will not appear in the package list.

You can change the size of the font used by selecting the "use small/large list font" item in the Info menu. You can also toggle the display of package sizes in the package list by using the "Show/hide package sizes" item in the Info menu. Turning this feature off can significantly improve display time.

Scroll the list with your Newton's standard scroll arrows. Select and deselect

NewtCase 11

packages by tapping on them. You can select a range of packages by tapping and dragging from the first package to the last package in the range. You can also use the None and All buttons to clear the selection or select all packages in the current list. NewtCase remembers the selection state of items when you scroll, but the selection is cleared if you switch to a new folder with the folder tab or change the view with the show button.

Use the folder tab at the top of the list to show packages in a particular folder or on a particular store. Use the Show button to limit the list based on whether a package is frozen or active.

Using Package Manager to beam, freeze, thaw, or delete a package

To beam, freeze, thaw, or delete a package, select it and tap 📧. You can freeze, thaw or delete more than one package at once.

PLEASE NOTE: You will be performing the selected action on all selected packages, which may include packages you selected and scrolled off screen.

The top half of the action/routing menu lists available transports for your package. The MessagePad has one built-in transport, Beam Packages. If you have any additional transports installed that support packages (X-port, for instance), they will appear in the list with Beam. Tapping on a routing option will act on the selected package(s) using the selected transport.

The bottom half of the Routing menu is devoted to Package Manager functions:

❄ Freeze

Freeze allows you to de-install a package without removing it from your MessagePad.

🔥 Thaw

Thaw is the opposite of Freeze. It will take a frozen package and reinstall it.

🗑 Delete

Delete will permanently remove the package from your Newton.

ⓘ Get Info

Get Info provides detailed information on the currently selected package or, if a group of packages are selected, summary information for the group. When getting info on a single package, you can set or clear the backup flag that determines whether or not a package is backed up (when backing up with the NBU or NCU). A check mark in the box indicates that the package is included in backups. If you're missing packages in your backups, verify that this flag has been set.

Using Package Manager to file packages

To file package(s), select the package(s) you wish to file and tap ▢.

A slip that lets you set the current folder for the selected packages will open. In addition, you can create a new folder, or edit the current folder. You can also use the filing slip to move a package to another store.

ℹ The Info Menu

"About" displays information about NewtCase Package Manager.

"Show/hide package sizes" allows you to display package sizes in the package list. This will slow the list down a little.

"Use small/large list font" allows you to choose the font size for the package list.

"Install package to <storename>" temporarily changes the default store to the one you selected and launches the Connection/Dock application to download a package from your desktop computer.

NewtCase

Freezing and thawing packages in the Extras Drawer

When the Package Manager is installed, it enables the freeze feature of the Newton and enhances the way the feature works. Instead of having to tap a frozen package to thaw it, and then tap it again to launch it, NewtCase will perform these functions after one tap. It will also freeze the package again when it's closed. Additionally, NewtCase replaces the large snowflake that would normally represent a frozen package with an easier to keep track of, grayed-out version of the package's icon.

To freeze a package or group of packages, select the package(s) and choose "Freeze" from the Routing menu. To select a package, place your stylus on it until a heavy mark appears and you hear a squeak.

To thaw a package and automatically launch it, tap it's icon. Frozen packages will appear grayed out with a mini-snowflake overlay. If you would like to thaw a package without launching it, select the package and choose "Freeze" from the routing menu (the Freeze menu item will thaw the package if you tap it when the selected package is already frozen).

NewtCase can freeze and thaw extensions as well as packages, just follow the same procedure. NewtCase cannot freeze data, so it will not work on Storage Icons.

Note: When freezing a group of packages it may take some time for the icons to change in the Extras Drawer - you need not wait for this to happen before continuing your work.

Extensions Manager

Overview

NewtCase Extensions Manager is a utility that provides semi-automated control over the freezing and thawing of groups, or "sets", of packages. It is particularly useful in situations where there are groups of related packages that need to be frozen or thawed "en masse.", or where there are known software conflicts (NCEM can be set to freeze one and thaw/launch the other).

The central premise of NCEM is that you can create sets of packages where all of the packages in the set have been instructed to freeze, thaw, or do nothing when the set is applied. Applying a set is like applying a text macro- with one action you can do what would normally require many steps. Sets can also be reversed, in which case all of the packages will do the exact opposite of what they were instructed to do when applied.

A "key" package can be associated with a set so that when the set is applied, it will automatically launch the key package. You could, for instance, create a set that freezes most of your packages, thaws NetHopper and the Newton Internet Enabler with all of it's extensions, and then launches NetHopper. You can optionally configure a set so that when the key package is closed, the set will reverse (all the packages that had been thawed will be refrozen).

An Extras Drawer icon can be created for a set. You can configure this icon to apply or reverse the set when tapped, or to apply or reverse the set depending on whether or not the key package is frozen.

Definition of Terms

APPLYING a set executes the instructions in the set exactly as configured. Packages set to THAW are thawed, packages set to FREEZE are frozen, and everything else is ignored. If you have specified that the key package is launched, then it will be launched. If you have specified auto-refreeze, then some or all of the packages set to THAW will be refrozen when the key package exits.

REVERSING a set executes the OPPOSITE of the instructions in the set. Packages set to THAW are frozen, packages set to FREEZE are thawed. No action is taken with the key package.

FREEZING a set simply treats the set as a list of packages instead of a list of instructions - all packages in the set (i.e.; any packages set to THAW or FREEZE) will be frozen, all other packages are ignored. No action is taken with the key package.

THAWING a set simply treats the set as a list of packages instead of a list of instructions- all packages in the set (i.e.; any packages set to THAW or FREEZE) will be thawed, all other packages are ignored. No action is taken with the key package.

Using Extensions Manager

Extensions Manager has two views, one is an overview of the sets you have created, the other is the window where a selected set can be edited. When you run the Extensions Manager, it will open to the overview of your sets. When you choose to edit a new or existing set, the set editing window will open.

Creating a new set

Create a new set by tapping the "New" button. The set must be named, "untitled" is not a valid set name and will not be accepted. You cannot have

two sets with the same name. Try to keep the name short if you're going to create an extras drawer icon for the set. Once the set has been named, it's ready for editing. Tap to select it, then tap the "Edit" button. Proceed to the Editing sets instructions.

Editing sets

When a set is selected for editing, the Set Editing window appears:

Name of the set being edited.

Editing Set: Pro

Sets:

List of other sets that can be "chained" to the set you're editing. Use the scroll arrows at right if the list exceeds the length of the window.

<Freeze All>
<Thaw All>
Pro
Web Browsing

Tap to change folders as in the Extras Drawer.

◆ **All Packages**

qfexch:donv on Card
QFigure on Internal
QFNewtWorks:donv on Card
*QF_QChart:donv on Card
qsort:donv on Card
*quadsolver:donv on Card
Read Me Bundled on Internal
Read Me Newton on Internal
*Resolve inet URL on Internal
rotate:ICS on Internal
*scrollerTool:qfpro:donv on Card
Serial 9600 on Card
SleepAid on Internal
solver:donv on Card
TemplateBrowser:Notion on Card
X-Port on Card

List of packages that can be configured to freeze, thaw, or do nothing when the set is applied or reversed. Use the scroll arrows at right if the list exceeds the length of the window.

Tap to choose a key package for the set (optional).

◆ **Key Package** qfig:donv

☑ Launch Key Package ◆ **Refreeze** **All marked thaw** ☒

Check if you'd like the key package to run when the set is applied.

Choose whether (and which of) the packages in the set will freeze automatically when the key package is closed.

NewtCase 17

To edit a set, follow these steps:

1. Tap to select a set for editing in the overview, then tap "Edit"

2. The Set Editing window will appear with a list of all possible packages, sorted by the same folders you use for the Extras Drawer. This is where you designate whether a package will freeze, thaw, or do nothing when the set is activated. To configure a package in the list, tap the name of the package you wish to configure. Repeat taps on the name will cycle the state of the package between IGNORE (blank), FREEZE (snowflake), and THAW (dewdrop). You can tap in the column next to the package to get a pop-up list with the same choices.

3. You can choose a "key" package that, when launched, will trigger the applying or reversing of the set. For instance, if you want to make a set that is configured for good performance while web-browsing with NetHopper, then you would probably want to make NetHopper the key package. You can select a key package to by either selecting it from the 'key package' pop-up menu, or by dragging the package and dropping it onto the pop-up. Only applications (i.e.; no autoparts, no books) can be key packages.

The state of the key package determines what to do with a set when you tap it's icon. If the key package is frozen, the set will be applied. If the key package is thawed, the set will be reversed.

You have several options for the key package's behavior when the set is activated, and for when the key package is closed.

      a. Check the box titled "Launch key package" if you want the key package to open when you activate the set. You cannot configure a set to autolaunch a package if you have not specified that package is to be thawed.

      b. Tap the "Refreeze" button to see the choices for the set's behavior when the key package is closed. These options will apply to all of the packages in the set when the key package is closed. You can choose to have only those packages which actually had to be thawed refrozen, or you can choose to refreeze all the packages in the set that were set to "thaw," regardless of whether or not they actually had to be thawed. (The distinction here is that you

may not want to refreeze something if it was not explicitly thawed by the set. It may have been thawed for a reason.)

4. When you're done configuring the set, close the Set Editing window and save the changes.

Applying a set

To apply a set, either select it in the Extensions Manager overview and choose "Apply" from the Routing button, or create an Extras Drawer icon for the set that will apply the set when tapped. When you apply a set, your packages will be scanned and either frozen, thawed, or ignored as necessary to match the set as you configured it the Set Editing window.

If you chose to have the key package auto-launched, it will launch (open) when the set is applied. If you selected auto-refreeze, those packages that were thawed will be refrozen when you quit the "key" application.

Keep in mind that it takes a few seconds to freeze or thaw a package, so applying a set of packages may take a few moments. Obviously, the more packages you designate to freeze or thaw, the longer it will take.

Creating an Extras Drawer icon for a set

To make it easier and faster to use your sets, one or more icons for a set can be created and will appear in the Extras Drawer. There are multiple options for what will happen when the icon is tapped, the default being to simply apply the set as you have it configured. Alternatively, the icon can be made to thaw all packages in the set that are frozen, to freeze those that are thawed, to reverse the configuration of the set, to conditionally apply or reverse the set, or to ask you which option you prefer.

To create an icon for a set, tap it's name in the Extensions Manager overview and choose "Make Extras Icon" from the Action menu. This will bring up a dialog where you can set the following options for the icon:

NewtCase

Icon caption - This will denote the name that appears under the icon.

Use icon from key package - If this is unchecked, a generic icon will be used. If this is checked, then the icon from the key package will be dimmed, and a small suitcase added to the lower right to identify it as an icon for a set.

Action - the action you wish the set to perform when the icon is tapped. You may choose Apply, Reverse, Freeze, Thaw, Conditionally apply or reverse, or Ask. Apply, reverse, freeze, thaw do what they imply. Conditionally apply/ reverse will check the state of the key package, and if the key package is frozen, the set will be applied. If the key package is not frozen, the set will be reversed. The Ask option will bring up a dialog asking what to do each time the icon is tapped.

Applying a set automatically after a restart or turning the power on

You can now specify a set to be applied on power-on (every time you turn your Newton on) or on start-up (each time your Newton restarts).

To choose a set to be applied on start-up and/or power-on, drag the set name from the Sets list and drop it on the "On PowerOn/Wakeup" box on the main screen. If you don't have a set there already, you can tap the "On PowerOn/ Wakeup" box and choose the set from the list that appears. To configure the behavior of the set you've chosen, tap the "On PowerOn/Wakeup" box to open a configuration window.

When you power on your Newton device, a dialog will come up when NCEM is about to activate the set, and you'll have an opportunity to abort it before it happens. If you don't respond within a few seconds, the operation will either continue or abort. You can set the default behavior (continue or abort) and the time-out value (time before the default kicks in) in the configuration window mentioned above.

Chaining sets

Different sets can be linked together by "chaining". Chaining can be used to reference one set to another so that when one is applied, the other is applied, reversed, frozen or thawed. You could create a single NIE/Internet Extension set, for instance, that your web-browsing or e-mail sets could link to so that it thaws when they are applied. With chaining, you can avoid making multiple sets that include the same packages.

To chain one set to another, select the set you want to start from in the Extensions Manager overview and tap Edit. The top portion of the Set Editing window lists the possible sets you can choose from. Choose the set you want to chain to your primary set and tap it's name. This will add a check mark to it's left, indicating that the set will be applied when the primary set is applied. To change whether the chained set will apply, reverse, freeze, or thaw when the primary set is applied, tap the check mark and a pop-up list with these options will appear. The options are explained below:

Apply - When you apply a set from within another, the instructions in that set (including references to still other sets) are followed exactly as they were defined. This means that packages set to "Thaw" will be thawed, and packages set to "Freeze" will be frozen.

Reverse - When you reverse a set from within another, the instructions in that set (including references to other sets) are followed in exactly the opposite way than they were defined. This means that packages set to "Thaw" will be frozen, and packages set to "Freeze" will be thawed.

Freeze - When you freeze a set from within another, the instructions in that set are essentially ignored. All packages in the set that are not set to "ignore" are frozen. Any sets included in that set are frozen as well, as are sets included in that set, and so on.. This option is probably less useful than apply or reverse, but can be handy if you know a set references a group of packages that you want all to be frozen.

Thaw - When you thaw a set from within another, the instructions in that set are essentially ignored. All packages in the set that are not set to "ignore" are

NewtCase

21

thawed. Any sets included in that set are thawed as well, as are sets included in that set, and so on.. This option is probably less useful than apply or reverse, but can be handy if you know a set references a group of packages that you want all to be thawed.

Keep in mind that you can chain as many sets as you want - NCEM will follow the chain of referenced sets until it comes to the end, and it's smart enough not to get caught in a loop if two sets reference each other. In fact, there may be times where it is appropriate to have two sets reference each other, so there's no problem if you do this. Keep in mind also that if you choose to include a set and have it FROZEN or THAWED that all packages in that set and all packages in sets referenced by that set will be frozen or thawed.

Note: Only the primary set's key package autolaunch preference will be used - key package/autolaunch settings are ignored for chained sets.

What happens when packages included in a set are deleted or moved

Set information is now stored on the same card/store as the actual package. Settings are preserved when a package is moved from one store to another. This means that if you configure a set to thaw QuickFigure Pro, it only applies to the actual copy of QuickFigure Pro that was installed when you configured the set. If you have QuickFigure Pro on another card as well, it will not be affected. If you delete a package that is part of a set, the set information will be deleted with it. The information will not return if you reinstall the package, so the package would need to be re-configured.

Desktop

Overview

The NewtCase Desktop is a substitute backdrop for your Newton that uses less heap space than the built-in applications do when they are used as backdrops. The Desktop backdrop can be set in a variety of background patterns, the default being blank. Desktop also adds a button bar for launching packages, storing text clippings, and for support of buttons that other packages might add to the backdrop.

Installation notes

Desktop includes four separate parts that have to be installed separately. For basic functionality you should install "dsktp.pkg". The "tiles.pkg" can be installed if you would like a choice of backdrop patterns, and "rotate.pkg" can be installed if you would like a button in your backdrop that can rotate the screen. In addition, "qckpk.pkg" can be installed to add a pop-up picker for the extras drawer contents. See the QuickPicker section for more details.

Desktop MUST be installed on the internal store to run, and cannot be moved to a storage card. Once installed, open the Extras Drawer and hold your pen on the Desktop icon until the heavy mark appears, then drag the mark across it until it highlights. Tap the Route (envelope) button and select "Make Backdrop" from the list. Now desktop will appear as the backdrop when all other packages are closed.

Note: Do not try to remove, freeze or move desktop while it is the backdrop.

Using the button bar

While the Desktop backdrop is displayed, a button bar with various buttons for quick access to packages, text clippings, and screen rotation appears at the bottom of the screen. This bar can be made to "float" so it appears while other applications are running. This allows you to avoid trips to the Extras Drawer when you want to run additional applications, or rotate the screen. This also allows you to use the text clipping or quickpicker buttons while another application is running. The buttons and their functions are explained below.

The Rotate button

On a Newton 2.1 device, tap to get a list of screen orientation choices. Choose one and the screen will rotate appropriately. On a Newton 2.0 device, tapping the button automatically rotates the screen. This button is optional.

The Tear button

Tap to create a "floating" version of the Desktop button bar. To move the bar, drag it by the "zipper" tag at it's far left edge. Tapping the zipper hides the bar on the right hand side of the screen, with only the zipper showing.

"Zipper" for the floating strip.

When you want to get rid of the floating bar, or return it to it's fixed place in the Desktop backdrop, tap the "x" button on the far right side of the strip .

The Package Pop-up button

The Package Pop-up button allows you to create a pop-up list of the packages that you want to quickly access. To add a package to the list, first make the

button bar "float" (see the Tear button instructions above). Then, open the Extras Drawer and select the icon for the package you wish to add to the list. Drag the icon to the Package Pop-up button (on the floating strip), and lift your pen when it's directly over the button. This will add it to the list. You can use the Info/Preferences button to control whether the package appear as an icon or plain text.

⊱⊰ The Text-Clipping button

The Text-Clipping button allows you to create a pop-up of text clippings that can be added wherever the caret appears. To add a clipping to the list, first make the button bar "float" (see the Tear button instructions above). Then, select the text you wish to add to the pop-up list and drag it to the Text-Clipping button (on the floating strip). Lift your pen when it's directly over the button, and it will be added to the list.

🖾 The QuickPicker button

Tap this button to get a small pop-up overview of the Extras Drawer contents. See the QuickPicker section for more details. This button is optional, and requites you to install the QuickPicker Extension.

ⓘ The Info/Preferences button

Tap this button for information about Desktop, or to open the preferences window.

NewtCase
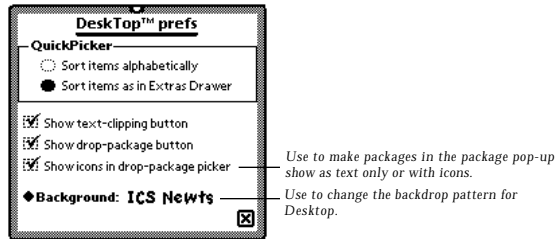
QuickPicker

The QuickPicker is a small, floating window that shows an overview of the contents of the Extras Drawer. It can be left open and will appear while other applications are running.

Tap the folder tab to view the contents of another folder in the Extras Drawer.

```
◆ Unfiled
Extras
Net Hopper
Calls
Calculator
Formulas
Clock
Card
Time Zones
Owner Info
Names
Find
Dates
[F]   [X]      [₱]
```

Tap and drag to re-size the QuickPicker.

Tap to close the QuickPicker.

Tap to switch between the larger and smaller font.
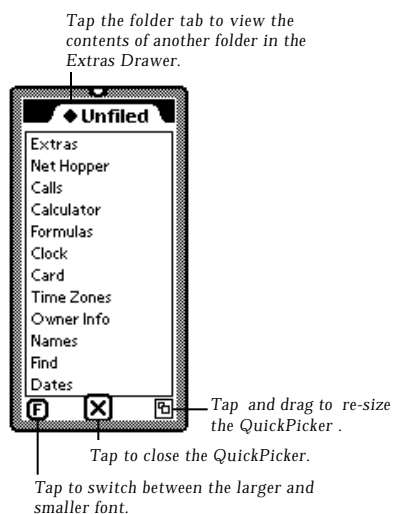
When installed, a QuickPicker button 🔘 will appear in the backdrop application. A QuickPicker icon will also appear in the Extras Drawer. On a Newton 2.1 MessagePad, this can be dragged into the built-in button bar. To open QuickPicker, either tap the QuickPicker icon, or tap the backdrop button.

If using a keyboard with a 2.1 Newton device, you can press cmd-opt-q to launch the QuickPicker. On an eMate, you can use ctrl-extras.

To scroll through the list of contents, use the built-in button bar's up and down arrows. To open an application on the list, tap it's name.

If using the keyboard, you can also use the up down arrows to move through the list. You can also type the first few letters of a package name and QuickPicker will scroll to that package. Pressing enter will launch the selected application.

GestureLaunch for Newton 2.0

Overview

GestureLaunch is a tool that allows you to configure the Newton's built-in buttons so that when you write a gesture over the button, a predetermined action will be performed. Unlike traditional button bars and package launchers, GestureLaunch allows you to assign up to four actions to each built-in button for a total of 24 different actions without using any additional screen space. You can launch any package with a simple gesture (select, caret, line, or scrub) or even execute small NewtonScript programs entered with GestureScript.

Installation

This program is made up of three separate packages. GestureLaunch is the extension that takes the gestures and performs your configured actions. You configure GestureLaunch by selecting (tapping and holding) the overview button on the bottom of the screen.

The Scripts package installs sample scripts for use with GestureLaunch and GestureScript. It is a dispatch-only extension (which means that it automatically deletes itself after you install it).

The GestureScript package is an optional program for advanced users who want to write their own NewtonScript programs for use with GestureLaunch.

Using GestureLaunch

There are four possible gestures that you can use with your buttons. The first is select. To do so, hold the pen on the icon until you hear a sqeak.. The caret is

drawn like the roof of a house, like "^". It should be drawn from left to right. The line is a simple horizontal line from left to right. The final gesture, scrub, is drawn as a series of up and down strokes like an M or W.

You can configure GestureLaunch by selecting the overview button (tap and hold on the dot between the arrows at the bottom of the screen). After holding the pen down for a second, release it and the first GestureLaunch menu will appear.

PLEASE NOTE: The GestureLaunch configuration screen is only available while in portrait mode. If you attempt to configure it in landscape mode, you will be prompted to switch back to portrait mode.

NewtCase
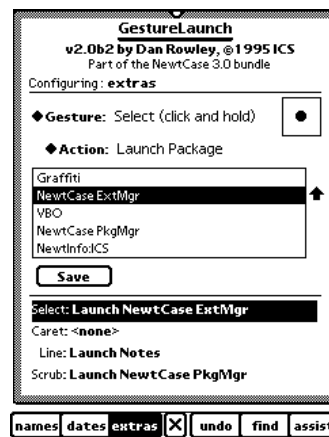
From the first menu, you can select the button you wish to configure. Once you select a button, the configuration screen for that button appears. For each button, you can assign an action for the four gestures (select, caret, line, and scrub). Select a gesture by selecting it from the menu at the top, or tapping on its name at the bottom of the configuration screen.

This version of GestureLaunch supports two actions: Launch a Package and Execute a GestureScript. After selecting an action, you need to choose a package or GestureScript for that action. Once you have configured a gesture, you need to tap on the Save button to save your changes.

Once you have configured GestureLaunch, tap on the close box of the first menu to exit the configuration screens. Now you can perform a gesture on one of the buttons to have GestureLaunch perform the associated action.

Using GestureScript

GestureLaunch includes a package of sample scripts. You only need to install GestureScript if you want to change those scripts or write your own. If you want to modify the sample scripts, please modify a copy instead of the original. Future releases of Script packages may replace the sample scripts with updated versions. You can delete all of GestureScript's scripts by selecting "Delete All Scripts" from the Info button.

The GestureScript interface is very straightforward. When you edit a script, be sure to tap the "check" button to verify that it compiles correctly.

If you have questions about GestureScript or wish to distribute a package of scripts, please contact dan@newts.com. If you want us to include some of your scripts in a future release, e-mail them to gscripts@newts.com.

GestureLaunch for Newton 2.1 MessagePads

Overview

GestureLaunch allows you to configure the MessagePad's built-in buttons so that when you write a gesture over a button, a predetermined action will be performed. A gesture can be a letter, number, punctuation mark, or a double-tap. Examples of some possible actions are launching a package, initiating a Dock, displaying heap statistics, or toggling the backlighting on or off without using the power switch. These are just a few of the many actions available, and advanced users who are familiar with NewtonScript can add their own.

The actions you can choose from in GestureLaunch are called scripts. When you want to configure a button with GestureLaunch, first associate a gesture to the button, then associate a script to the Gesture. GestureLaunch comes with over thirty pre-designed scripts.

If you are familiar with the NewtonScript programming language, you may be able to design your own scripts. A small NewtonScript expression can be made into a GestureLaunch script with the Script Editor. It's instructions are not included in this documentation, see the electronic readme for details.

Installing GestureLaunch

GestureLaunch is not compatible with Apple eMate devices. GestureLaunch and it's associated packages should be installed on the internal store. See the Introduction for a list of the appropriate packages.

Important Note: When GestureLaunch is installed, icons on the built-in button

bar cannot be selected and moved as usual. To select an icon, tap the icon, then tap it again and hold your stylus down until you hear a sqeak and it highlights. It can then be dragged.

Using GestureLaunch

A. To select a button for configuration, hold your pen on it until the configuration window appears. The icon for the button you are configuring and the button's name will appear at the top of the window.

B. To configure a different button, you can either select it in the button bar, or tap the button's name at the top of the configuration window and a pop up list of all available packages will appear. The latter option allows you to configure icons which are not currently visible on your button bar.

C. Tap New to get a pop up list of the predefined gestures that can be assigned to a button. Valid gestures are 0-9, A-Z, and the following symbols: !, #, $, %, &, *, ?, ^, and ~. You may have difficulty using some of them due to their similarity (i.e., "oh" and "Zero"). To select the gesture you want to use, either tap it on the list, or perform the gesture on the sample icon box. When you write on the sample icon, the screen will briefly display the letter it recognized.

In addition to regular gestures, there are three "events" that can be assigned to a button. These appear on the pop up list of gestures. The "BeforeScript" is executed for all gestures before the configured script is executed. The "AfterScript" is executed for all gestures after the configured script is executed. The "DefaultScript" executes if the user writes a gesture which has no defined action.

D. You can also choose the gesture to be configured by writing it on the sample icon. If GestureLaunch recognizes the gesture, it will ask you if you would like to create a configuration for it. If so, tap Yes and proceed.

E. Once you've selected a gesture to configure, choose the action you would like it to perform from the list of available scripts.

F. When you choose a script, a description of that script will appear in the information box below the list.

G. Some scripts have "parameters" that need to be set. For the launch application script, the package you would like to launch when the gesture is performed is the parameter. Other scripts take text or lists of text items as parameters. The information box for the script will specify when it needs a parameter, and what the parameters are. When a script requires it, an Edit Parameter button will appear. To enter the parameters, tap the button and enter them according to the instructions that appear in the script's description. Once saved, the information box will show the current parameter for the script with the rest of the description.

H. When finished configuring your button for a gesture, tap the Save button. If you try to change icons or gestures without saving, you will be prompted to save. Tap Revert to throw away your changes.

Barkeep and KillBB

Overview

BarKeep is an extension which allows you to customize the location and appearance of the systems's built-in button bar. It is compatible only with MessagePads with Newton 2.1. Key features include the ability to:
• Store more icons by adjusting the space between icons.
• Store more icons by turning off text labels.
• Customize the button bar with different settings for each screen orientation:
> - Button bar location (all four sides allowed)
> - Button bar width
> - Location of scroll/overview controls
> - orientation of scroll/overview controls

Also included with BarKeep is the "KillBB" extension, which allows the user to temporarily disable the button bar altogether, permitting the use of the entire screen.

Installing BarKeep

BarKeep is built-in to GestureLaunch for Newton 2.1. When you install GestureLaunch for 2.1, it will install the BarKeep extension in the Extras Drawer Extensions folder. BarKeep should be installed and stored on the internal store.

BarKeep installs a new item in the Newton's system Preferences application. Tapping the BarKeep icon in your extras drawer has no effect. To configure your button bar with BarKeep, launch the Newton's built-in Preferences application and choose BarKeep.

Setting the BarKeep preferences

There are two different types of button bar settings controlled by BarKeep - global settings, and orientation-specific settings. Global settings apply to all screen orientations, and orientation-specific settings apply only to a single screen orientation (note that the two possible landscape orientations and two possible portrait orientations are distinct from each other, giving a total of four possible screen orientations).

Global settings

Icon spacing - Adjusts the amount of space between icons on the button bar. Choose smaller settings to fit more icons on the button bar. If your icons are very close together, you will probably want to turn off text labels. Note that the more icons you have on your button bar, the more heap space it will use. Also, smaller icons can hinder the GestureLaunch character recognition.

Icon text labels - Controls whether text labels are displayed under icons in the buttonbar. You may choose to display labels ALWAYS, NEVER, or only when the screen is in portrait or landscape orientation.

Orientation-specific settings

ButtonBar location - Controls the location of the button bar. The button bar may be positioned on the TOP, LEFT, RIGHT, or BOTTOM of the screen.

ButtonBar thickness - Controls the thickness (width or height) of the button bar. A narrower button bar allows more screen space for running applications, but may clip larger icons.

Note that if your button bar is very narrow, you will probably want to turn off text labels. If you choose the smallest thickness ("Tiny"), your icons will be shrunken to approximately 60% of their original size.

Scroll/Overview location - Controls the location of the scroll/overview control cluster. If the button bar is located on the left or right, the controls may be located at the TOP or BOTTOM. Similarly, if the button bar is located on the

top or bottom, the controls may be located on the LEFT or RIGHT. Overview position - Controls the location of the overview button relative to the scroll arrows. You may choose to place the overview button INSIDE the arrows (towards the inside of the screen), OUTSIDE the arrows (towards the edge of the screen), or on the LEFT or RIGHT of the arrows.

Using KillBB

BarKeep includes the "KillBB" extension, which allows you to temporarily remove the button bar altogether, allowing you to use the entire screen. If you choose to install KillBB, it will add an icon to your extras drawer called "KillBB," which you can drag to your buttonbar if you like. When you tap on the button, the button bar will be closed, and the screen redrawn to occupy the entire screen area. In the button bar's place will be a small floating button bar. The floating button bar provides access to the extras drawer, the scroll arrows and overview, an undo button, and a button to bring the full button bar back.

The button at the bottom/right of the floater is used to bring back the full button bar, either temporarily or permanently, depending on how you tap it. If you simply tap it, the button bar will appear *on top of* where it usually resides (as opposed to redrawing the screen to accommodate it), and will disappear when you choose a button. If you tap and hold for a second or so, you will hear a second click, and then the screen will be redrawn with the button bar restored to it's previous location.

The KillBB button bar may be drawn in either horizontal or vertical orientation. To change the orientation of the floating button bar, simply double tap on the drag handle at the top/left of the button bar. You may drag the floater partially off screen if you wish.

A note about potential conflicts

BarKeep exposes a number of button bar related preferences which allow the user to configure their button bar in ways that although "legal", could certainly

be considered to be "non-standard" (landscape with the button bar on the bottom is a typical example). Since applications like BarKeep are the first which expose these situations, we're finding that a number of application developers have made assumptions about screen orientation and size which are not necessarily "safe." The symptom of this problem is that some applications will refuse to open when the button bar is configured in these "non standard" ways. As a rule of thumb, if the application did not allow rotation on the MessagePad 120/130, it will not work in Landscape orientation with the button bar on the top or bottom. We have contacted the developers as the conflicts come to our attention, and are working with them to resolve the issues. The fixes are generally simple, so if you encounter any apparent conflicts, feel free to contact our technical support service.

BarKeep is incompatible with ButtonBar Plus and other related utilities.
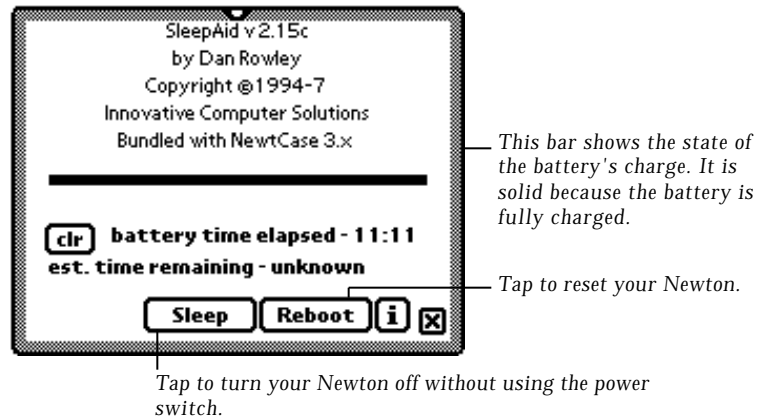
SleepAid

Overview

SleepAid gives you control over all aspects of power management on your Newton. It replaces the default Sleep preferences, allowing you to set two sleep times- one for battery and one for AC ("sleeping" is the Newton's metaphor for having the power off). It also can add two small, invisible buttons that are present on the screen at all times, and that can be placed at any of the screen's or button bar's corners. One is the SleepAid button, which allows quick access to sleeping, rebooting, screen rotation, and turning the backlight on or off. The other is the Heap Status button, which gives an instant reading of free heap space.

Note: If you are using the Newton rechargable (nickel-metal-hydride) battery, SleepAid may not give you an accurate measure of your elapsed battery time. Recharging the battery before it's power is completely drained will throw the measurement off, so the only way to get an accurate reading would be to let the battery run down all the way before you recharge it. To get an accurate reading, insert the battery and wait until it is charged until you calibrate the SleepAid power monitor to %100. Then, clear the elapsed time counter, and do not charge your battery (plug in your Newton) until it is nearly depleted.

Installing SleepAid

SleepAid will work on internal memory or a storage card, but installling to internal is recommended. If SleepAid is on a card that is removed, it will deactivate itself.

The SleepAid window

```
                    SleepAid v 2.15c
                     by Dan Rowley
                  Copyright ©1994-7
               Innovative Computer Solutions
                  Bundled with NewtCase 3.x
```

This bar shows the state of the battery's charge. It is solid because the battery is fully charged.

```
  [clr]  battery time elapsed - 11:11
  est. time remaining - unknown
         [ Sleep ] [ Reboot ] [i] [x]
```

Tap to reset your Newton.

Tap to turn your Newton off without using the power switch.

To open this window, tap the SleepAid icon in your Extras Drawer, or select "Open SleepAid" from the SleepAid Now button's menu.

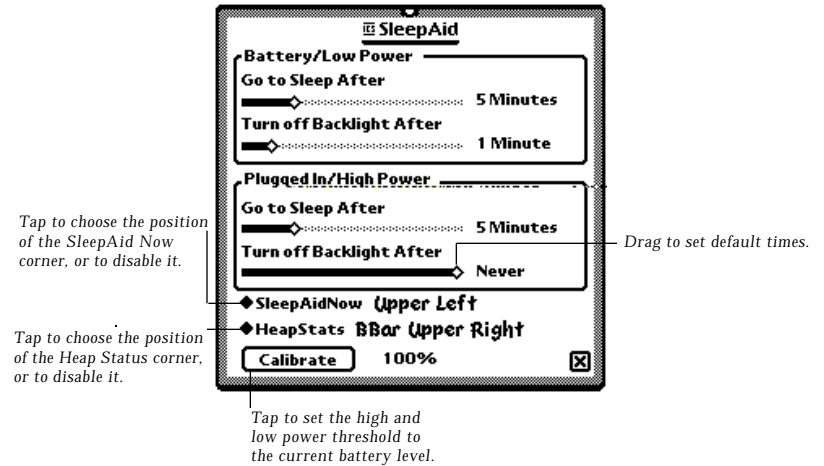The battery status bar displays the current power remaining.

The "battery time elapsed" counter is a timer that counts every minute the Newton is on and not plugged in. You should reset the timer with the "clr" button when you change batteries, or the time remaining estimate will not be accurate.

"Est. time remaining" is an estimation of the remaining battery life. It is a value that is calculated using the current battery level and the battery time elapsed value. This estimate is not very accurate, and requires that you clear the "battery time elapsed" timer whenever you change the batteries.

To open the SleepAid preferences from this window, tap "i" and select "Open Prefs". To undo the preferences you have set, tap "i" and select "kill prefs". This should be done if you plan to remove SleepAid from your Newton.

Setting the SleepAid preferences

To set your preferred Sleep times, open the Newton's built-in Preferences
window. Once installed, SleepAid will appear on the list. Tap it, and set your
preferences as you wish. When the SleepAid preferences are set, they will
replace the Newton's default Sleep preferences.

*Tap to choose the position
of the SleepAid Now
corner, or to disable it.*

Drag to set default times.

*Tap to choose the position
of the Heap Status corner,
or to disable it.*

*Tap to set the high and
low power threshold to
the current battery level.*

SleepAid monitors battery status and updates the Sleep time accordingly.

The calibrate button allows you to set the threshold at which SleepAid switches
from the "High Power/AC" setting to the "Low Power/DC" setting. Not all
Newton devices can reliably sense AC power, so you may need to calibrate
SleepAid to switch settings at %100 instead. In that case, SleepAid would
switch to the low power setting when the power dropped below %100. You
may also decide to set the threshold to a lower figure if you want to maintain
the "high power" settings until the batteries are drained to a certain level. To set
the calibration threshold, tap the Calibrate button and choose a value from the
pop-up menu. If you wish to use the AC sensing, your Newton must be plugged

in when you hit the Calibrate button. If you don't see <AC SENSE> in the pop-up menu, then you can't use AC sensing on your Newton device, and you should use %100 instead.

SleepAid Now corner

Tap the SleepAid Now corner to get the following menu:

```
Open SleepAid™
Sleep
Reboot
Rotate Screen
Toggle Backlight
```

The SleepAid Now corner is not visible on the screen. If it has been activated, the SleepAid preferences slip will show where it is located. It can be moved to any corner of the screen, or to any corner of the button bar. Use the SleepAid preferences slip to set the location.

HeapStatus Now corner

Tap the HeapStatus Now corner to get an instant reading of your availabe free heap (system) memory.

The HeapStatus Now corner is not visible on the screen. If it has been acti-vated, the SleepAid preferences slip will show where it is located. It can be moved to any corner of the screen, or to any corner of the button bar. Use the SleepAid preferences slip to set the location.

NewtInfo

NewtInfo
by Dan Rowley
©1994-5 Innovative Computer Solutions

[ ] List General Newton Statistics
[ ] Calculate Soup Stats
[ ] More soup details
[ ] List Packages
[ ] Detailed Heap Stats (very slow)
[ ] List Add-on Prefs and Formulas
[ ] List System Notifications
[ ] List Idlers
[ ] List Find-enabled Applications
[ ] List Intelligent Assistant info

Check desired info and press Start -> [**Start!**]

Newt Info Main Screen

NewtCase

Overview

NewtInfo is a system profiler for the Newton Operating System. It can generate a detailed report of soups, packages, memory usage, add-on prefs and formulas, system notifications, idlers, find-enabled packages, and intelligent assistance packages. These reports can be printed, faxed, e-mailed or mailed. Users can find out things like what's taking up so much memory space on their device, what a new "patch" affects, or why software is suddenly running slower. It can serve as an excellent resource when trouble-shooting software problems.

Installation

NewtInfo will work if installed internally or on a memory card. Do not attempt to remove the card if NewtInfo is running. NewtInfo must be available while printing a report, but it doesn't have to be running.

Using NewtInfo

When you run NewtInfo, it presents you with a list of possible reports to run. Select the reports you would like to generate, and tap the Start button. NewtInfo will build the reports and display them in a scrollable window. Building the reports may take a couple of minutes.

Use the up and down arrows to scroll from one report to another, or use the overview button to see an overview of the reports. Tap to open a report from the overview.

Generating reports requires significant free heap memory, and the more reports you run at once the more heap you'll need. If you have trouble generating them, try doing fewer at once. If you encounter heap limitation while trying to print a report, close NewtInfo and print from the OutBox .

Reports can be printed, faxed, or e-mailed if you're set up to do so. Simply use the Routing button while the report is open.

The NewtInfo reports

List General Newton Statistics

Provides information about the version of NewtInfo, the type of Newton device, ROM version, and information about stores. The information about stores includes the the number, names, locked or unlocked status, size, space used, and space available.

Calculate Soup Stats

Provides names of all soups on both stores with the number of non-index entries, and the total memory used, including indexes. Soups listed as "<none>" do not have any entries or indices on that store. Because of indices, it is possible to have a soup with zero entries that still takes up space. Also, it is possible for numbers to not add up due to rounding. NewtInfo totals the memory used by soups on each store.

More soup details

Prints information on the directory and system soups. Also checks for orphans (soups of deleted packages).

List packages

Lists all installed packages (including autoparts) and the storage used by each.

Detailed Heap Stats

Lists the estimated heap memory used by all packages. The packages must be closed for NewtInfo to calculate their heap use. The report will not include any packages left open while the report is being generated. This report will temporarilly disable each of your installed packages. If it the report fails, you should reset your Newton device.

List Add-on Prefs/Formulas

Lists new or modified entries to your Preferences or Formulas.

List System Notifications

Lists any programs that will be notified when the Newton is turned on, off, or changes a soup If you have a Newton that won't go to sleep, it could be caused by a package included in this report.

List Idlers

List any idling programs, their frequency, and their owners. Some idlers may not be identifiable to NewtInfo.

List find-enabled applications

Lists programs that are checked when a "Find All" is performed.

List Intelligent Assistant Info

Lists the built-in and add on verbs that the Intelligent assistant understands.

SoupKitchen

Overview

SoupKitchen is a full featured soup browser and editor for the Newton. It was designed for advanced users who like to play with the Newton soups now and then. If you are not familiar with Newton soups, you should avoid SoupKitchen.

Warning/Disclaimer

Innovative Computer Solutions and PelicanWare, Inc. assume no responsibility for any damage done with SoupKitchen. When editing soups, you should know what you're doing. Play it safe and make a copy of an important soup before editing it. Be extra cautious with the system soup. If you delete or change important entries, you may have to do a hard reset and restore your system from a backup. SoupKitchen is a very powerful tool, and dangerous if you don't know what you're doing!
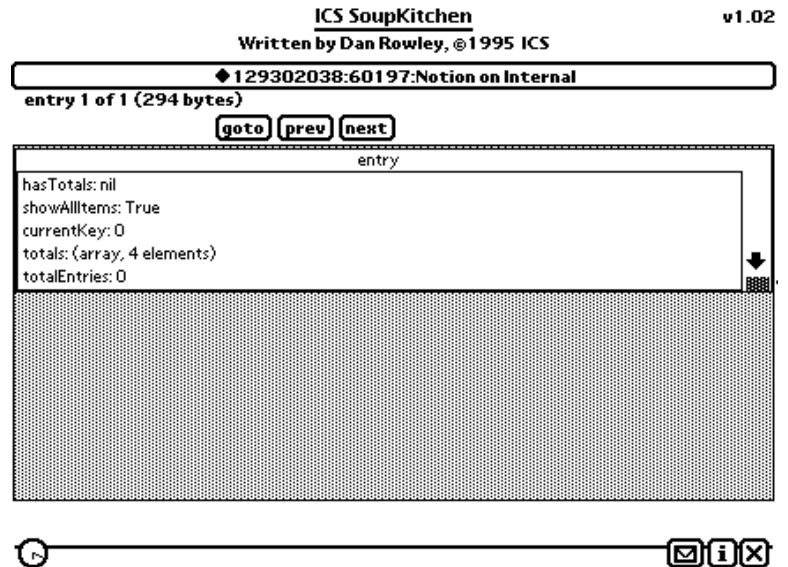
Using Soup Kitchen

When you start SoupKitchen, you'll be presented with a list of the soups that can be edited. To choose one, tap it. SoupKitchen will provide information about that soup, like the number of entries, storage used, index slot, etc.. Then tap the Browse button to enter the soup browser.

When editing, it's important to understand the structure of soups and how SoupKitchen displays their contents. A soup is a linked list of entries. Each entry is a frame, and each frame contains slots. A slot can be an integral value (character, string, integer, real, boolean, symbol, etc.), an array of slots, or another frame. SoupKithcen displays each frame in it's own browser. When you click on a slot in a frame, SoupKitchen will respond by loading an editor

for that slot if it is an integral value. If it is an array or another frame,
SoupKitchen will open another browser below the current frame containing the
new frame.

Once you have chosen to browse a soup, the SoupKitchen main editing screen
appears:

ICS SoupKitchen   v1.02
Written by Dan Rowley, ©1995 ICS

♦ 129302038:60197:Notion on Internal

entry 1 of 1 (294 bytes)

goto   prev   next

entry

hasTotals: nil
showAllItems: True
currentKey: 0
totals: (array, 4 elements)
totalEntries: 0

At the top of the screen is a button with the name of the current soup. Tap the
button to go back to the list of soups.

Below the button is a status indicator that tells you which entry you're
browsing, and the total number of entries in the soup. The Prev, Goto and Next
buttons allow you to move between entries in the soup.

Each frame of the soup is presented in a browser on an endleass roll. You can
scoll through the slots in a frame's browser by using the up and down arrows at

NewtCase   47

the right side of the broswer. You can re-size the browser window using the gray box in the lower right-hand corner of the browser. You can scroll through the endless roll of browsers using the silk screened/built-in arrows on the Newton button bar.

Routing 📧

Remove soup removes the soup you're browsing.
Rename soup asks you to re-name the soup you're browsing.
Copy soup lets you make another copy of the soup with a new name.
Copy soup to <store name> lets you make a copy of the soup on the named store.
Remove entry removes the current entry from the soup.
Remove slot removes the selected slot in the last browser.

Information/Help 🔲

About Soup Kitchen displays credits screen.
Make dummy soup creates a soup called "dummy soup" that you can experiment with.

Technical Info

SoupKitchen may report that a soup "contains <items> for a <package>." When a program creates a union soup, it provides the operating system with a symbol for the soup and two words describing the contents of the soup. SoupKitchen uses this information, which is stored in the information frame of the soup, to display the "contains" message. If this information is not present, SoupKitchen will display <item> because it can't tell what kind of data the soup stores.

Bugs, Questions, Comments, Suggestions...

If NewtCase crashes, please write down the error code (especially if it is an "Unexpected error") and e-mail or fax a bug report to us. Please be sure to write down the entire error message, all of the information is important. We also gladly accept suggestions for future versions.

Technical Support for NewtCase is available from PelicanWare, Inc. at the following e-mail addresses and numbers:

Internet: support@pelicanware.com
Phone: (503) 221-1148
Fax: (503) 224-0582

In addition, you can visit our Website for technical information, frequently-asked questions, and information on updates. The address is:
http://www.pelicanware.com.

The program's author, Dan Rowley, can also be reached for comments and suggestions at dan@newts.com. If you prefer to e-mail bug reports directly to him, you can send them to bugs@newts.com, or support@newts.com.

You can also get support for ICS products in the Newton Vendor Forum on CompuServe. Just "GO ICS".

Special Thanks To...

The many people who have supported us by registering our shareware and buying NewtCase. Without you, NewtCase couldn't have made it this far.
The NewtCase beta testers (you know who you are).
PelicanWare for helping us get this thing to market.
David Aikins (AikinsD@aol.com) for creating a beautiful box and manual cover.

About Innovative Computer Solutions

ICS was started in 1989 by high school friends Dan Rowley and Tom Collins when they were back in Allentown, Pennsylvania after their freshman years at Arizona State and Penn State (respectively). Things got off to a slow start until Tom transferred to ASU and moved into Dan's tiny apartment in Tempe. Since then, they have both graduated with Computer Science degrees and continued to grow their little company.

Along the way, they've done everything from selling IBM clones (hasn't everyone?) to writing educational software to consulting and tutoring to developing Newton software. They don't know what they'll do in the future, but you can bet that it will include writing Newton software for a few more years.

ICS on the Internet

Net surfers can check out our official World Wide Web page: <http://www.newts.com/>
ftp directory: <ftp://ftp.newts.com/pub/>
and infobot: <mailto:info@newts.com>

CompuServe users can check out our section in the Newton Vendor Forum. Just "GO ICS". You can get a free CompuServe membership kit by calling 1-800-524-3388 and asking for representative 595.

We try to keep both sites up to date with information on the latest versions of our freeware, shareware and commercial Newton software. E-mail tom@newts.com with comments or questions about our network presence.

LEGAL MUMBO JUMBO

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NewtCase

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