

HandWeb™ 1.1

Internet Web Browser
for PalmPilot™ Professional Organizers



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Preface

Put the Internet in the palm of your hand

Congratulations and thank you for choosing HandWeb. With this software you will be able to use your PalmPilot Professional or compatible computer to navigate through the World Wide Web as easily as if you were using a full-sized desktop machine.

HandWeb will provide you with an extremely convenient mobile browsing solution. Use it to connect right to the Internet to read your favorite on-line news service, check the stock market, or even to keep up with current postings on your company's Intranet when you travel.

Whatever your specific needs, HandWeb will help you get the information you want when you want it, wherever you go.

New features

This version (HandWeb 1.1) offers new features and greater browsing power with respect to HandWeb 1.0. Among these are:

- Support for Web sites with fill-in *forms*, allowing you to perform searches, on-line registrations, and other types of browsing which require you to enter information
- Support for buttons, pull-down menus, lists, and checkboxes
- Off-line browsing, allowing you to read Web pages that you save on your PalmPilot at any time
- Adjustable Cache size, complete with purge functions
- Better visual handling of Web pages in general, including a redesigned user interface and additional pop-up menus

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1 Overview

What is HandWeb?

HandWeb is a powerful Web browser designed to run on all PalmPilot Professional and compatible computers. This application displays the text contents of World Wide Web pages regardless of their graphical appearance, allowing you to gather data from your favorite Internet sites just as you would from a full-sized desktop computer. HandWeb's main features include:

- Direct connections to your Internet Service Provider using the PalmPilot Professional's integrated PPP software
- Compatibility with most Web sites
- Intuitive navigation buttons
- Customizable folders for organizing your bookmarks
- "Save as Memo" and "Save Page" functions for off-line browsing
- The ability to download PalmPilot program files, documents, and databases over the Internet

Supported Internet standards

Web protocols

HandWeb supports HTML 2.0 and HTTP basic authentication and redirection. This means that HandWeb can access most of the Web sites it encounters with pleasing results. However, HandWeb does not yet support certain types of sites and functions, such as sites with Java scripts and Frames.

Note Please check our Web site (www.smartcodesoft.com) for status on updates with new features.

Communication protocols

HandWeb uses the PalmPilot's integrated TCP/IP stack (PPP, SLIP, or CSLIP) to connect to your Internet Service Provider(s) or corporate system via dial-in connections.





The table below gives a summary of the various Internet protocols that HandWeb uses:

Term	Description
HTML	<i>HyperText Markup Language</i> — HTML is the standard language that is used to define Web pages. HTML codes provide text formatting, hyperlinks (which take you to other locations), and many other advanced features.
HTTP	<i>HyperText Transport Protocol</i> — HTTP is the mechanism by which hypertext files move across the Internet between computers. HandWeb is an HTTP <i>client</i> program; you will be connecting to HTTP <i>servers</i> through your service provider.
TCP/IP	<i>Transmission Control Protocol / Internet Protocol</i> — TCP/IP is the data transport protocol used on the Internet to allow computers of all kinds to communicate with each other. PPP, SLIP, and CSLIP are forms of TCP/IP specially designed for dialup connections.

Supported protocols

Notation conventions in this manual

If you are already a PalmPilot user, then you should be familiar with the terms used in this manual. Here are a few that we use frequently:

Term or symbol	Meaning
	This is the PalmPilot "Menu" icon, located to the left of the Graffiti writing area
Tap	On a PalmPilot, you "tap" on the touch-sensitive screen with a stylus, just as you would "click" with your mouse in conventional desktop computer software.
Graffiti	Graffiti is the character recognition mechanism used by the PalmPilot to turn your stylus strokes into letters. The standard way to show you what to write is like this:  ,  , and  M (for "command-M").
PalmPilot	This term to refer to all PalmOS 2 compatible computers (i.e. 3Com PalmPilot Professional organizers and IBM WorkPad PC Companions)
ISP	Internet Service Provider

2 Installation

System requirements

To run HandWeb you will need:

- A 3Com PalmPilot Professional organizer or compatible with Palm OS 2.0 or higher and around 125 Kb of free memory
- A PalmPilot clip-on or other compatible modem (if you use a modem other than the PalmPilot clip-on, we highly recommend that you use a certified PalmPilot modem cable)
- A Windows or Macintosh computer with a standard PalmPilot cradle connection, HotSync, and Application installer software (only used for copying HandWeb onto your organizer)

Package contents

In this package, you will find:

HWeb110.prc	The HandWeb application to install on your PalmPilot
Readme.txt	General product information
User manual	This document — complete instructions on how to use HandWeb. The user manual is also provided in electronic format on your distribution floppy or electronic download.
Register.txt	Product registration form
License.txt	HandWeb user license

Installing HandWeb on your PalmPilot

Updating from a previous version

In general, we recommend that you make a backup of your PalmPilot by running HotSync before installing *any* new software.

If you have a version of HandWeb already installed in your PalmPilot, you may go ahead and install the current version of HandWeb directly over it without losing any information (i.e. your Bookmarks will not be lost).

Update versions

If you acquired your update as an UPGRADE PACKAGE, then you should follow the special instructions provided with your delivery.

Installation procedure

HandWeb software operates entirely on your PalmPilot machine. There is no interaction with your desktop computer, except during installation. At that time, you will need to connect your PalmPilot to a PC or Macintosh computer in order to run HotSync and upload the HandWeb program file (with a .PRC extension) to your PalmPilot. To install HandWeb:

1. Copy the file HandWeb.prc to your hard disk, or install it directly from your distribution floppy or electronic download directory.
2. Place the PalmPilot in its cradle, and connect the cable to your Windows or Macintosh desktop computer.
3. Start the PalmPilot application installer in your desktop computer.



The PalmPilot application installer on Macintosh is called InstallApp



Windows users should run Instapp.exe

4. Use the **Browse** button to locate and select the file HW110.prc:



Click on **Install** and confirm your selection. HandWeb will be copied to your PalmPilot next time you run HotSync.

Lastly, perform a HotSync to load the application onto your organizer:

1. Start the HotSync Manager application in your desktop computer.
2. Press the HotSync button on the PalmPilot cradle to begin file transfer.

Starting HandWeb



Start HandWeb by tapping on the HandWeb icon in your PalmPilot's Applications screen.

Product serialization

The first time you start HandWeb, you will be asked to enter your product's serial number:



Product serialization

Serial numbers are given in the format: 1234-1234567-1234. You must enter the dashes ("-") as well. If you bought an off-the-shelf package, you will find the serial number on the floppy disk. If you purchased an electronic version of HandWeb through an on-line reseller, you should have received a serial number from them via e-mail.

3 Connecting to your ISP

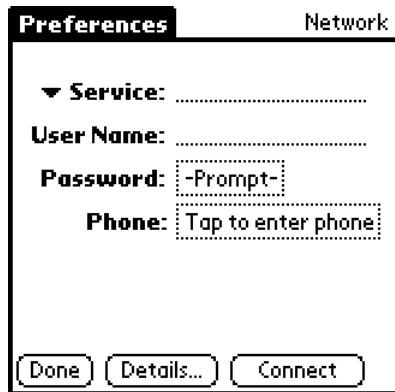
Note If your dialup connection is already correctly configured, you may skip this chapter, and move on to Chapter 4 “Using HandWeb”.

HandWeb is a very intuitive program to use, and in most cases you will not need much help from the User Manual. However, before you can begin using HandWeb at all, you will have to configure your PalmPilot organizer to correctly dial into your Internet Service Provider. For this, HandWeb uses the PalmPilot’s own PPP (TCP/IP) software.

This chapter covers the basics on how to use the PalmPilot’s integrated PPP stack. If you need more details, please consult your PalmPilot Professional user manual.


Configuring PalmPilot PPP

You may access the network panel either through the PalmPilot **Preferences** icon (**Network** option), or from within HandWeb by selecting **Menu** (🌐) ⇒ **Options** ⇒ **Network Panel** (graffiti “/M”). This opens the PalmPilot network configuration screen as shown here:



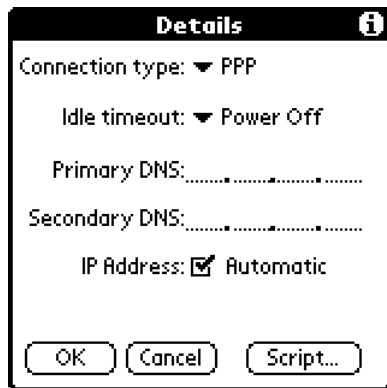
Filling in your ISP information

Here is where you will enter the information for your dialup connection. Fill in the fields as follows:

- Service** This name is for your reference only. You may enter a new service ( ⇒ **New**), select an existing service by tapping on **Service**, or overwrite a service that you do not intend to use.
- User Name** Enter the login name for your account here.
- Password** Enter you account password here, or leave **Prompt** in order to enter your password manually each time you connect.
- Phone** Tap here to enter your service provider's access telephone number, and your own calling card information if necessary.

TCP/IP details

Tap on **Details** to setup the specifics of your TCP/IP stack:



TCP/IP stack configuration

Connection type

Here you should choose the TCP/IP protocol (PPP, SLIP, or CSLIP) that your provider uses.

Idle timeout

The idle timeout represents the period of elapsed time after which an unsolicited TCP/IP stack automatically disconnects from a host. In order to avoid unexpected shutdowns, we recommend selecting **Power Off**. Do not set this "Immediate".

Primary/Secondary DNS

Enter the IP addresses of the Domain Name Server(s) given to you by your ISP. Domain name servers provide resolution of machine *names* to *IP addresses* (for Web servers entered in the format `www.domain.name`). A DNS IP address should be in the form:
44.151.06.15

Automatic IP address

Most service providers dynamically assign their dial-in subscribers an IP address upon connection. However, if you need to specify a fixed IP address, deselect this checkbox, and enter your IP address in this field.

Connection scripts

Many service providers do not require connection scripts at all, as the TCP/IP stack gives them the login information that you entered in the main configuration screen as

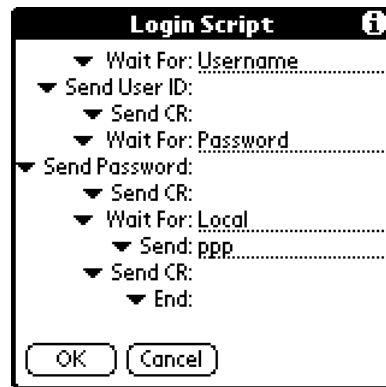
described earlier. When scripts are necessary, ISPs readily provide examples of the connection scripts they require to access their systems. It is important to check with your ISP or system administrator to get the exact details.

Connection scripts execute a series of instructions, such as **Login** and **Password**, instead of requiring you to enter them manually for each connection. They can also pause for a specified length of time, wait for a host machine to send specific character strings, and then respond with pre-determined responses.

For example, here is how a typical Internet Service Provider would give you details on how to connect:

```
expect Username>
Enter your UserID and return
expect Password>
Enter your Password and return
expect Local>
Enter ppp and return
```

The corresponding connection script would look like this:



Sample connection script

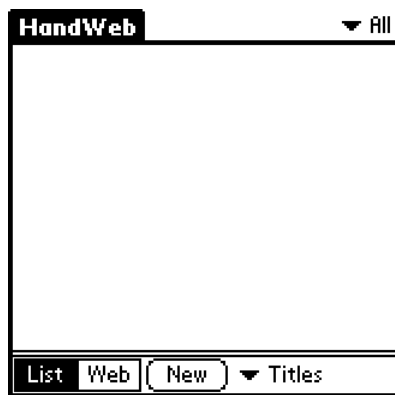
Most connection scripts are similar to the above, though they may present slight variations depending on the host system. You should check with your ISP for the exact connection script, and consult your PalmPilot user manual for more information.

4 Using HandWeb

Getting started

After you have configured and tested your dialup connection (which is best done *independently* of HandWeb), you are ready to browse the Web with your PalmPilot organizer. Follow these steps to begin:



1. Start HandWeb (and enter your serial number if this is the first time that you are running the application). HandWeb automatically opens to the bookmark list window:

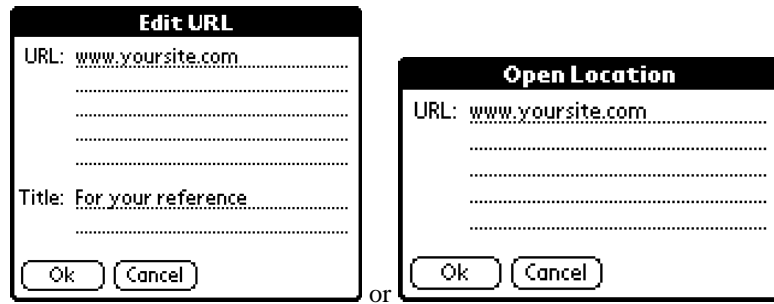


The starting point...

Your main options in this screen are:

- | | |
|---------------|---|
| List | Displays your current list of URLs |
| Web | Switches to the Web browsing window |
| New | Allows you to enter a new URL |
| Titles | Allows you to switch list URLs by their complete names or by their titles |

2. Tap on **New**, or select  ⇒ **Open** (Graffiti  **O**) and enter the name of the Web site you wish to access, and tap on **Ok**.




Entering Web addresses

Select **New** to save the URL in your list; select **Open** to go straight to the site without saving the URL.

3. If you selected **New** in step 2, you should then highlight the new entry with your stylus, select **Open** from the pop-up menu.

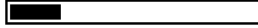


HandWeb then initiates the dial-up connection process and opens the Web site you specified.

Note HandWeb does not automatically close connections when you are done browsing. While you are connected, a blinking vertical line is displayed in the upper right corner of the screen. If you experience transmission problems, it is best to close the connection (**Options** ⇒ **Disconnect**, or Graffiti  **D**) and re-dial.

Loading pages

While HandWeb loads Web pages, it displays the progress status at the bottom of the screen. When HandWeb is able to determine the size of the current page, it displays a “classic” status bar like this:

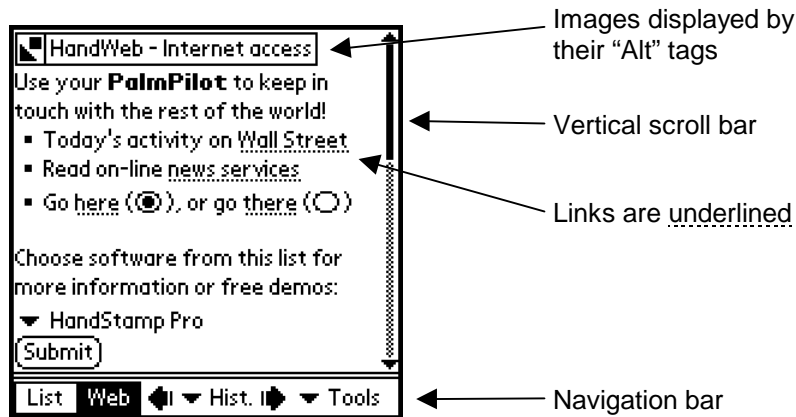


When HandWeb is unable to accurately determine the size of a page it displays a “barbershop” status bar like this:



Browsing

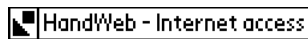
After connecting to your ISP, HandWeb will display the specified Web page as shown here:



HandWeb browser window

Due to the PalmPilot’s size and type of screen, HandWeb “simplifies” the Web pages it encounters in order to display them as clearly as possible. As HandWeb is a text-mode browser, you will notice that:

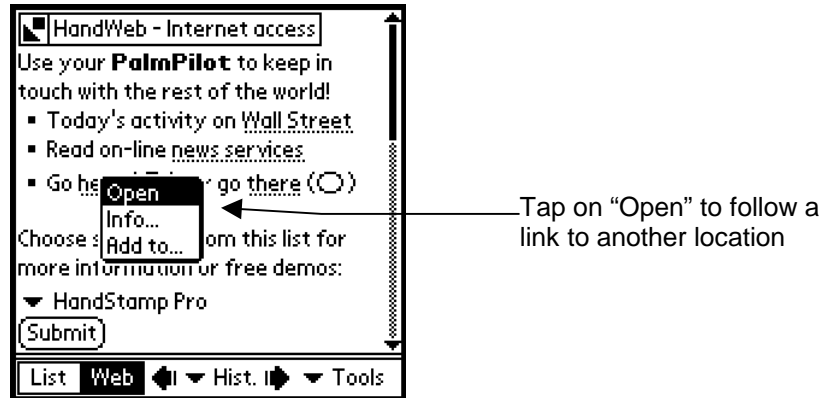
1. Images are shown as boxes containing the graphic’s text description (using the HTML “Alt” tag) like this:



You may tap directly on graphics if they contain links to another location.

- When links are contained within text (also known as *hypertext*) on a Web page, HandWeb underlines the words like this: news services.

When you tap on a hypertext link, HandWeb opens the new location. If you hold your stylus down on the link for a second, a pop-up window appears as shown here:






URL pop-up menu

This popup menu allows you to **Open** the new location in the browser window; to obtain **Information** on the URL before going there, or adding the URL to your bookmark list (**Add to...**).

HandWeb's navigation bar

At the bottom of the screen, you will find several buttons and pop-up menus:

- | | |
|---|--|
|  | Switches to the Bookmark list |
|  | Switches to the Web browsing window |
|  | “Back” and “Forward” — brings you back to the previous location, or forward to the next page (i.e. from which you just did “back”) |

▼ Hist.

This button opens a pop-up list of the last *ten* (10) URLs you have accessed during this browsing session, allowing you to reload them easily. Note: the history **folder** holds up to *twenty* (20) entries.

▼ Tools

This pop-up window offers four options



Info

Displays the location of the current page and its title at the top of the screen like this:



Reload

Goes back to the Web site to get a fresh copy of the current page.

Add URL

Saves the Web address of the current page into your bookmark list.

Save Page

Saves the current page in browsable format. A black diamond (◆) in the bookmark list indicates saved pages. You may instantly view saved pages at any time.

“Hotspots”

When you tap on *hotspots* (either images or hypertext), HandWeb displays a pop-up menu that gives you three options:



Open

HandWeb will open the specified page in the browser window.

View

This displays the link’s URL coordinates.

Add to

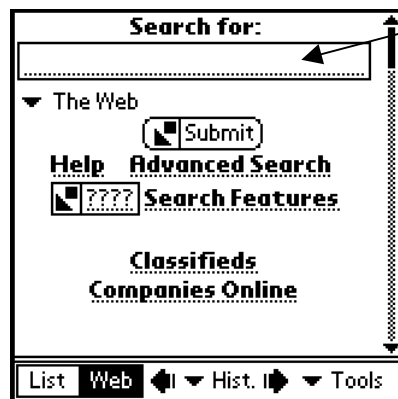
This allows you to add the link to your bookmark collection (discussed in the next chapter).

Web pages with “fill-in” fields

While you are browsing the Internet, there are many situations which require you to enter text before continuing. For example, you may need to enter data manually in order to perform searches or to fill in on-line registration forms.

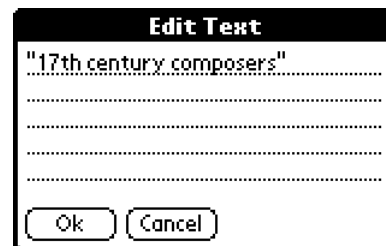
A sample search

When you tap on data entry fields, HandWeb opens a data entry window as shown here:



Tap in the field in which you need to enter text...

And type it in the pop-up window:



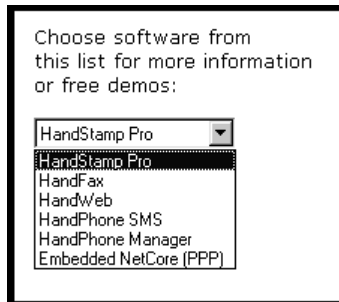
Tap on **Ok** in the text editing window when you are done, and your text will be placed in the text field on the Web page, and you may press the Submit button (or continue with whatever type of action the context calls for):



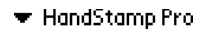
Pull-down menus

Web pages that offer “multiple-choice” selections often use pull-down menus to let you choose the relevant subject or name.

In a classic browser, pull-down menus look like this:

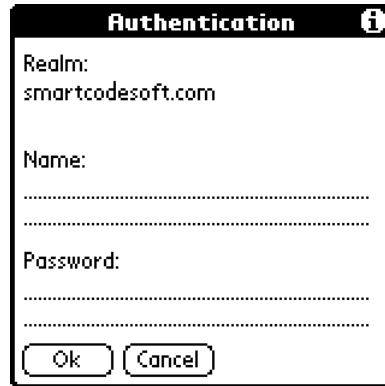


In HandWeb, pull-down menus look like this:



Accessing password-protected sites

Some Web sites are password-protected, and require you to type a name and password before entering. When HandWeb encounters a site that requires this type of *basic authentication*, it displays the following window in which you may enter your name and password:

A screenshot of an 'Authentication' dialog box. The title bar is black with the word 'Authentication' in white and an information icon on the right. The main area is white and contains the following text: 'Realm: smartcodesoft.com', 'Name:' followed by two dotted lines, and 'Password:' followed by two dotted lines. At the bottom, there are two buttons: 'Ok' and 'Cancel'.

Entering your password for protected sites

Simply type in your name and password, and tap on **Ok**.


Saving Web pages on your PalmPilot

HandWeb allows you to store Web pages in browsable format right on the PalmPilot. To store the current Web page, tap on ▼ **Tools** and select **Save Page**, then choose a category in which to file it. Pages that you have saved in this way will appear in your bookmark list marked with a small black diamond (◆):



Note URLs marked with an empty diamond (◇) are currently being held in HandWeb's cache, but have not been saved. Older cache entries will be flushed by new pages as they arrive.

Saving Web pages as Memos

As you browse, you may find it useful to be able to save the text content of the current page for future reference. To do this, select  ⇒ **Save as Memo**. The page will be stored directly in the “Unfiled” category of your PalmPilot's Memo Pad application.

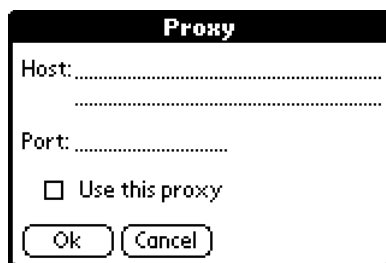
Note Pages up to 4 Kb in size may be saved as Memos. You will hear a beep tone. No confirmation appears on the screen for this operation.

Using a Proxy server

A Proxy server is a host machine that serves as a “Web access helper” for browsers. A proxy can, for example, pre-format or filter Web pages before passing them to your browser. It can also store frequently accessed Web pages locally so that your browser does not have to go all the way to the original site to read requested pages. Proxy servers are most often used in corporate environments.

HandWeb does not require the use of a proxy server, as it accesses the Internet directly and analyzes the Web pages “on the fly”. You may, however, use a proxy server if you choose.

To identify your proxy server, select **Menu** ⇒ **Proxy setup**:



Identifying a proxy server

Fill in the fields accordingly:

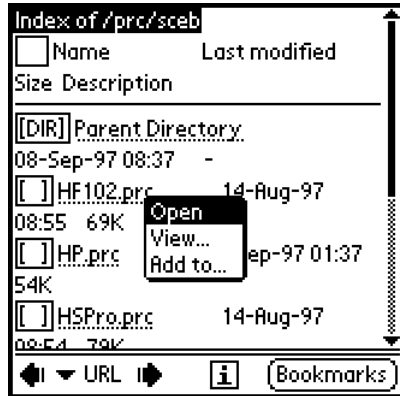
- | | |
|-------------|---|
| Host | Enter the name or numeric IP address of the proxy server you intend to use. |
| Port | Enter the port number used by the proxy. We recommend that you check with your system administrator to get the exact details. |

Tap on the checkbox “**Use this proxy**” in order to force HandWeb to use the specified proxy server.

Downloading PalmPilot files

HandWeb has an integrated file loading mechanism that allows you to load PalmPilot application files and database files (with .PRC or .PDB extensions) directly over the Internet. To do this, simply enter the URL address of the file you wish to install, and let HandWeb do the rest.

For example, you could connect to a site such as the one shown below, which contains a listing of various .PRC files:



Downloading .PRC files

Notice that the file names are underlined and treated as *hypertext*. Select **Open** from the pop-up menu, and HandWeb will begin downloading the file.

Server setup for preparing downloads

Read this section if you intend to make .PRC or .PDB files available for download from your own Internet or Intranet server.

In particular, it is important to know that:

1. HandWeb is able to install downloaded files only when they are transmitted in binary format. This will not work if you use a “Content-transfer-encoding” scheme such as *Base64*.
2. HandWeb downloads files with “.prc” and “.pdb” extensions (case irrelevant).
3. HandWeb also recognizes the following two “Content-type”, respectively for PRC and PDB files:

“application/x-pilot-prc”
“application/x-pilot-pdb”

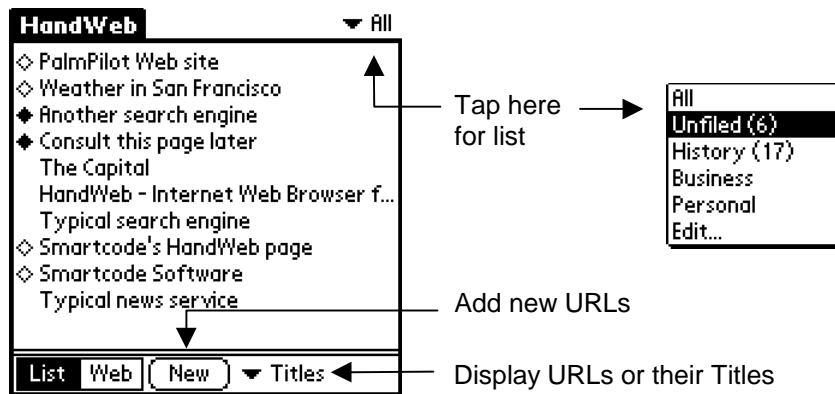
This means that HandWeb will try to install any downloaded file marked with such content types regardless of the name.

5 Using bookmarks

HandWeb lets you organize your Web site references as Bookmarks on your PalmPilot. This will keep you from having to enter Web addresses each time you want to browse the Web. Bookmarks may be organized in customizable folders, or left as “unfiled”. HandWeb’s bookmark management operates in the same way as the PalmPilot’s categories in other applications. You may enter up to eight user-definable folders for storing your bookmarks.

The bookmark window

As mentioned earlier when you start HandWeb, it automatically opens to the bookmark window, as shown here:



Bookmark window

Using the bookmark pop-up menu

Use your stylus to highlight an entry in your bookmark list, and select the appropriate option from the pop-up menu:




- Open** Tap here to open a Web page
- Edit** Tap here to change an entry's settings
- Move to** This allows you to move the current selection to another folder
- Duplicate** Makes a copy of the current selection
- Delete** Removes the current selection from the bookmark list

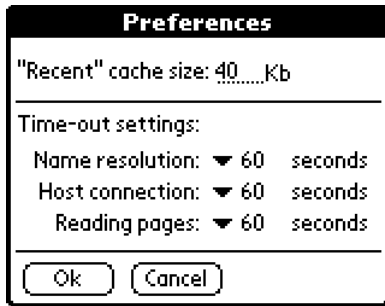
You may display your bookmarks either as complete URLs, or by their Titles (if you entered them). Use the "▼ Titles / ▼ URLs" pop-up at the bottom of the screen to choose the display you prefer.

6 HandWeb Preferences

Setting cache size

HandWeb temporarily stores recently accessed Web pages in cache memory. Pages currently in cache are marked with an empty diamond (◊) in your bookmark list.

You may adjust cache size by selecting  ⇒ **Preferences**:



By default, “Recent” cache size is set to 40 kb. You may adjust this with respect to the amount of free memory you have in your PalmPilot.

Time-out settings

You may also use the **Preferences** screen to adjust the time-out values for various network-related options. Depending on the speed of your connection, you may need to increase some or all of these values.

Name Resolution

This refers to the PPP process of correlating a Web address *name* you specify to its actual IP address. If you frequently encounter “error resolving host name”, you may try increasing this value. The default value is 60 seconds.


Host connection

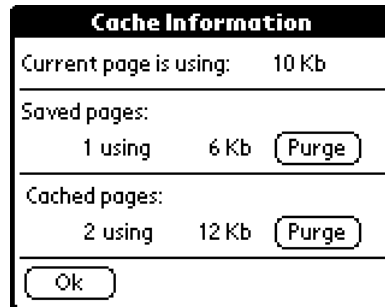
This value determines how long HandWeb will wait for a given host to respond. The default value is 60 seconds.

Reading pages

This value determines how long HandWeb will wait for data after it has started reading a page. The default value is 60 seconds.

Clearing memory

It may be useful or necessary for you to clear out either your saved pages or cache memory (considered as two separate types of storage). To do this, simply select  ⇒ **Cache**, and tap the **Purge** button next to the item you wish to clear:



Note You may not clear the current Web page.

7 Technical issues

Modem cabling

The easiest modem to use with the PalmPilot is, of course, the PalmPilot clip-on modem. This modem is specially designed for the PalmPilot and does not require any cabling.

If you do not use a PalmPilot modem, we recommend one of the following three ways for connecting your PalmPilot organizer to a modem:

1. Use a PalmPilot modem cable (part no. 1011U). This cable allows you to connect the PalmPilot directly to a modem.
2. Use the standard PalmPilot cradle adapter, and attach a null-modem adapter to the end of the cable.
3. Use a HotSync cable, and attach a null-modem adapter.

It is important to configure your modem to not drop DTR (Data Terminal Ready). Usually this can be done through a proper modem initialization string, or by setting Dip switches on the modem. If DTR is configured improperly, you will get an error. For additional information on modem configuration, please consult your PalmPilot and/or modem user manuals.

HandWeb messages

HandWeb can display two types of error messages: those specifically related to Web protocols, and those generated by HandWeb itself.

Note Unpredictable communication errors may occur when the batteries in your modem are low.

Here is an alphabetical listing of the various messages you may encounter while using HandWeb:

A TCP error occurred while downloading.

This usually means that there was a timeout while loading a page (i.e. it took too long...)

An error occurred while downloading. Maybe the file format is not correct or you do not have enough free memory.

Check to make sure you have enough free memory in your PalmPilot to download files.

Code 404 – Not found

The URL you tried to reach was not at the specified address

Connection error

The specified server could not be reached or did not respond.

Error resolving host name

This implies that the server you specified either could not be found at this time or does not exist.

HandWeb requires a PalmPilot with Rom 2.0 (or higher) and Palm's TCP/IP stack.

HandWeb only runs on PalmPilot Professional and compatible computers.

Not enough free memory

HandWeb needs more free memory to perform the selected operation. Try deleting unused applications or purging the cache.

Protocol error

An HTTP-level error. Please contact our technical support.

Technical support

Our support policy

Support for HandWeb may be obtained from either our U.S. or European offices by phone, fax, or e-mail.

We provide standard technical support for HandWeb free of charge for 30 days after purchase. Due to the volume of telephone calls, priority is given to questions asked via e-mail.

Please register your product so we can keep you informed on new releases, upgrades, or patches.

Contacting technical support

You may contact our technical support staff at the following addresses:

North America

Smartcode Software, Inc.
Sorrento Towers
5355 Mira Sorrento Place, Suite 100
San Diego, CA 92121

<http://www.smartcodesoft.com>
e-mail: support@smartcodesoft.com
Phone: +1 (619) 597-7544
Fax: +1 (619) 597-7444

Europe

Smartcode Technologie, S.A.
Cap Alpha
Avenue de l'Europe, Clapiers
34940 Montpellier, France

<http://www.smartcode.fr>
e-mail: support@smartcode.fr
Phone: +33 (0)4 67 59 30 40
Fax: +33 (0)4 67 59 30 48

Registration form

Copy or print this form, fill it in, and mail or fax it back to us in order to register your copy of HandWeb. (Packaged versions contain a registration card that you may send to us by mail if you prefer).

Fax in U.S.: 1 (619) 597-7444 • Fax in Europe: +33 (0)4 67 59 30 48
E-mail: register@smartcodesoft.com

Serial No. _____

Your name: _____

Title: _____

Company name: _____

Address _____

City _____

State/Province _____ Zip/Postal code _____

Country _____

Phone: _____

Fax: _____

E-mail: _____

Where did you purchase your product? _____

How did you hear about HandWeb? _____

Your PalmPilot model and desktop computer (PC, Mac)? _____

What kind of modem do you use? _____

Which ISP? _____

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