

HyperSense[®]

Hypermedia Authoring for *Everyone!*

This README file contains a description of what HyperSense is, and contact information for obtaining answers to any questions you may have. This file also describes how to install the accompanying copy of HyperSense and explore the included demonstration documents in order to learn firsthand about some of HyperSense's capabilities.

Note: The current release of HyperSense (version 1.00B10b) is distributed in Multi-Architecture Binary format for Intel and Motorola computers. The release comes in the form of two Installer packages: **HyperSenseApp.pkg** and **HyperSenseDocs.pkg**. While it is possible to run HyperSense and use most of the documents available by FTP with only the first package installed, several features of the program are limited or unavailable unless the essential documents contained in the second package are installed as well. To fully evaluate HyperSense, you should obtain and install both packages.

Obtaining More Information

HyperSense is a Thoughtful™ Software product.

Thoughtful Software
616 E. Locust Street
Fort Collins, CO 80524

phone: (303) 221-4596
fax: (303) 221-0841
email: info@thoughtful.com

What is *HyperSense*?

HyperSense is the HyperCard®-compatible authoring environment that unlocks the power of NEXTSTEP for everyone. It lets you make your own *Interactive Documents*.

What is an *Interactive Document*?

A HyperSense Document can be as simple as a one-page memo or as complex as a complete multimedia application. Here are some ideas of things you can do:

- Create Hypertext Books
- Design Educational Courseware
- Construct Software For Yourself And Others
- Prepare Multimedia Presentations
- Develop Interactive Business Training Systems
- Create Flexible Personal Databases
- Lay Out And Publish PostScript Documents

By simply dragging buttons, fields, graphics and other elements into place, you can create Interactive Documents like these:

- Your own Custom Database or Multimedia Catalog, complete with pictures, sounds and text.
- An Interactive Book, which lets you click on "hot" areas of a picture or page to jump to another page, show pictures or play recorded sounds.

What about complete multimedia applications?

The **SenseTalk™** scripting language gives you the power and flexibility you need to create sophisticated applications. Yet SenseTalk's power is easy to use. SenseTalk scripts are similar to standard English, making them easy to read, write, and understand. For example, the script command for a button that takes a reader to the next page of a document is simply "go to the next page". We don't think you'll find an easier scripting language anywhere. As NeXTWORLD magazine said in its review of HyperSense, "Thoughtful Software has pulled off a real coup in providing NEXTSTEP users with such an accessible programming language."

Is HyperSense just for programmers?

No. It's true that experienced programmers will find HyperSense to be a useful tool for developing both prototypes and finished applications, quickly and easily.

But HyperSense is not designed primarily as a programming tool. HyperSense offers different things to different people. As a general-purpose tool for creating and manipulating multimedia documents and applications it can serve the needs of many different types of users. Many types of documents can be created without any scripting at all, by simply dragging the needed elements onto a page, including pre-scripted buttons, fields, and graphics.

When custom scripting is needed, our comprehensive online help system (created with HyperSense), and the ability to easily copy and modify pre-written scripts, will have you creating your own applications in no time ± even if you don't know anything about programming. Celia Duffy, who uses HyperSense to create detailed music tutorials at Glasgow University writes "Not everyone has the expertise or need to program with Objective-C and Interface Builder... that's why us ordinary non-programming mortals choose HyperSense as our preferred authoring software."

By combining a rich document architecture with the ease of drag-and-drop creation, plus a versatile, English-like scripting language, HyperSense offers a unique combination of *power*, *flexibility*, and *ease of use* that is unmatched by any other program.

What else?

Well...

If you've ever wished for software that would enable you to create a document that was not merely text and graphics, but could *interact* with the reader;

if you've ever used a program that was *almost* just what you needed, but you wished you could make a few changes to make it fit *your* needs;

if you've wanted a program that would allow you to easily create a database for storing and organizing your information, but would give you the *flexibility* to change the structure at any time, including the ability to have different sets of data items on different records;

if you've ever had ideas for programs you'd like to see, but didn't have the time or inclination to learn an arcane programming language in order to create them yourself;

if any of these ring true for you, or if you simply wish you had a program that would let you experiment with different ideas and quickly develop prototypes...

... then HyperSense was created with *you* in mind.

Why not take a look and see for yourself what HyperSense can do!

Installing the Demo Release

The version of HyperSense contained in this demo release is the complete application, in Multi-Architecture Binary (MAB) format for both Intel and Motorola machines. To install and use the HyperSense demo release effectively, you will need to install both the application (contained in **HyperSenseApp.pkg**) and the accompanying documents, including the online manual and other sample documents (contained in **HyperSenseDocs.pkg**).

Installing these two packages will create the HyperSense.app application in your Apps or LocalApps directory, and a HyperSense subdirectory within your Library or LocalLibrary directory. Altogether, the two packages require around 8.5MB of disk space when installed for a single architecture, or slightly more than 10MB if installed "fat".

Before you install **HyperSense**:

If you have an earlier version of HyperSense installed on your system, you should remove it before installing this release, following steps A, B, and C below.

- A. Preserve any files that are part of the original distribution which you have modified or would like to keep, by copying them to another directory. In particular, unless you have your installation code recorded elsewhere, you

may want to copy the **License** or **NetworkLicense** file located in HyperSense.app. The installation process should leave these files undisturbed, but just in case the entire HyperSense.app directory gets deleted it may be handy to have a copy of the license file elsewhere.

- B. Remove the earlier version of HyperSense by locating the package receipts in the /NextLibrary/Receipts directory. Double-click each one and click the "Delete" button in the Installer window that appears. You will need to be logged in under the same account which installed the packages in order to be able to delete them.
- C. Remove or rename your Home document (Home.sense, located in your home directory, or other directory specified in your HyperSense HomePath default). This will allow HyperSense to create a new Home document for you, containing any new changes or additions made to the Home document since the last release.

To install ***HyperSense***:

1. Double-click **HyperSenseApp.pkg**. This should launch the Installer application. Note: If you received the distribution as a .tar file from an FTP site, you may need to first select "Decompress" from the "File" menu in the workspace in order to get the .pkg file.

2. Click the Install button and select the directory where you would like to install the HyperSense application. You should install it either in your personal Apps directory (~/Apps), or in /LocalApps. This will install **HyperSense.app** in the selected directory.
3. Double-click **HyperSenseDocs.pkg** (from the second part of the distribution). Install this package in your personal Library directory (~/Library), or in /LocalLibrary.

This package will install a **HyperSense** directory in the selected Library. The HyperSense directory will have five subdirectories within it: **DemoDocuments**, **LocalDocuments**, **MainDocuments**, **ReleaseNotes**, and **XModDevKit**.

The **MainDocuments** directory contains the on-line manual (Help.sense), the tour of HyperSense (HSTour.sense), the document creation tools (DocumentTools.sense), the Importer (Importer.sense), and the Other Tools palette (OtherTools.sense).

The **DemoDocuments** directory contains a number of sample HyperSense documents.

The **LocalDocuments** directory is empty. It is for your own use for documents that you create. Along with the MainDocuments and

DemoDocuments directories, it is included in the default search path as one of the known places where HyperSense will look when searching for a document.

The **ReleaseNotes** directory contains the latest release notes and README files for the current release. Please read this information, and keep it as a supplement to the on-line documentation.

The **XModDevKit** directory contains documentation, header files, and examples describing how to develop external modules to extend the SenseTalk language. See the file XModules.README in this directory for more information.

If you have previously added your own files or documents in any of these directories, they should not be harmed by the installation process, unless the new release happens to contain new documents by the same name. In this case the installer will warn that some files already exist. Before continuing, check the Log View carefully to see that nothing important will be overwritten by the installation process.

4. Launch HyperSense by double-clicking HyperSense.app in your ~/Apps or /LocalApps directory. You may want to drag the HyperSense icon into your Dock to make it easily accessible in the future.
5. When the Welcome panel comes up, wait until the buttons at the bottom of

the panel are enabled (turn from gray to black). To register your copy, click the button labeled "Register", enter your registration information and license key in the panel that appears, and then click "Register" in that panel. The next time you launch HyperSense, the Welcome panel should go away by itself after a few seconds.

If you do not have a license key (i.e., if this is a Demo copy), you will have to click on "Demo Mode" each time HyperSense is started. A panel which briefly describes the restrictions of Demo mode will be displayed (see below). Click the "OK" button in this panel to proceed.

The first time you run HyperSense you should be presented with an alert panel indicating that a Home Document (Home.sense) does not exist, and asking whether you would like to create one. Click the "Create" button in this panel.

Important Note: If the "Home.sense" alert panel is NOT displayed the first time you launch HyperSense, but instead a Home document is displayed without the alert panel ever appearing, it indicates that you already had a Home document, possibly from an earlier release of HyperSense. If this happens, quit HyperSense and remove the old Home.sense file from your home directory, then restart HyperSense and follow the steps outlined above. This will ensure that you are using the Home document included with the demo package and will be able to access the demonstration documents.

Demo Mode Restrictions, and Limitations of This Release

The primary restriction placed on the use of HyperSense in Demo mode is that every document is treated as read-only. HyperSense gives full access to read-only documents, allowing text to be entered and changes to be made to the document without restriction. However, the changes are never saved to the disk, so the next time the document is opened it will be exactly as it was at the start of the session. A small padlock icon is displayed in the title bar of each read-only document to remind you that any changes you make will not be permanent.

For the most part, you will be able to take full advantage of HyperSense and the demo documents included in the package. For example, the PasteMaster document can be fully used in Demo mode as a multi-entry, multi-page auxiliary pasteboard ± simply click one of the "Store" buttons to record whatever is currently on the system pasteboard for later use. Click the "Use" button to restore an entry to the pasteboard, ready to be pasted into any document of any application. However, the entries will be lost when you close the document. When using a licensed copy of HyperSense, this would not be the case, and you could store any number of entries permanently, for later re-use.

This is a pre-release version of HyperSense. In this release, portions of the online manual (particularly those dealing with SenseTalk) are incomplete. The SenseTalk Browser (available from the Tools menu and from a button at the top of Script windows and the SenseTalk chapter of the online manual) gives a brief

but thorough overview of the language. A good book on HyperTalk will provide more details on most commands. This release also contains only a limited set of sample documents, and does not include the full utilities for translating HyperCard Stacks into HyperSense Documents.

If you'd like to evaluate HyperSense more fully, contact Thoughtful Software and request a temporary evaluation license key, which will remove most of the limitations of this release, allowing you to create and modify documents.

Accessing the Included Demo Documents

Most of the demonstration documents included with this release are directly accessible from buttons located on the two pages of the Home document. Simply click any of these buttons to open the associated document. A few additional documents may be accessed from buttons within other documents, so all of the demo documents may be accessed (either directly or indirectly) from the Home document, if you do a little exploring.

A variety of different documents have been included, to give you a feel for some of the many things HyperSense can be used for. These should not be considered an exhaustive sampling by any means, but merely a glimpse of the possibilities. If you are wondering whether HyperSense would be useful for a particular purpose but don't see anything similar presented here, please call us

(303-221-4596), or send a question by e-mail (to info@thoughtful.com), and we will do our best to realistically assess how well-suited HyperSense is for your particular needs.

To begin learning about HyperSense, a good place to begin is with the Tour of HyperSense, which provides a brief introduction to HyperSense and the tools available to you. Once you have explored in it thoroughly, you may browse freely through the other available documents. After you've gotten a feel for what it's like to use HyperSense documents, you may want to try creating your own. The online manual contains a short tutorial (Chapter 4) that will help you get started (*note*: this tutorial is slightly out of date and has not yet been rewritten to take advantage of the recently added DocumentTools palette). Please remember that nothing will be saved to disk when using the program in Demo mode, so you will need to complete the entire tutorial within a single HyperSense session, or else start over at the beginning if you must return to it at a later time.

Note: A few of the sample documents will not work well on machines with small screens (less than 1024 x 768 resolution). These have been noted in the descriptions of the documents below.

The HyperSense documents included with this distribution are:

Addresses.sense

This document is a useful address book and includes such features as marking of individual pages or sets of pages, sorting by the contents of any field, and creation of mailing labels. Please keep in mind that data entered while running in Demo mode will be lost when the document is closed.

Bookmarks.sense

This document enables you to create and maintain a list of markers which will take you directly to any page of any document by simply double-clicking on the marker in the list. A separate list of bookmarks is maintained for each user.

DDM.sense

This Defaults Database Manager is a graphical front-end to the NEXTSTEP defaults database (an included help page explains its use in more detail). DDM illustrates one use of the SenseTalk **doShell** command to interface with UNIX command line utility programs.

DemoAddressBook.sense

This document is a simple example of a database type of application for storing names and addresses and other contact information. Notice that the first page has a button labelled "Map" which does not appear on the other pages. Clicking on this button brings up the document called "Map.sense". Also notice that some pages have TIFF images on them.

DocumentTools.sense

The DocumentTools palette provides tools for creating and modifying

documents. There are pages within the palette for creating new documents (with certain properties set for you automatically depending on the type of document you will be creating); for changing the page size of a document (resize the document window and click a button to resize the page to match); and for changing page colors.

ElementsInText.sense

This document illustrates and describes the use of graphic elements and buttons embedded within text. Any element embedded within text in a HyperSense document is a first-class object which may have its own script and other properties associated with it.

Eyes.sense

This one is just for fun, although it illustrates some useful concepts in SenseTalk scripting.

Help.sense

This is the HyperSense on-line manual. It contains a complete reference to the features of HyperSense, as well as tutorial and introductory information. In addition, as a HyperSense document itself, it illustrates the use of HyperSense to create a fully indexed reference work. (*Note: may not work well on small screens.*)

HSTour.sense

The "HyperSense Tour" offers a quick introduction to HyperSense ± what it

is; how a document is structured; how to use it. This is a good place to start your exploration of HyperSense. (*Note: this document is not usable on small screens.*)

HyperCalc.sense

A simple calculator implemented in HyperSense. This document is accessed by a button on the frame of the DemoAddressBook. Unlike most calculators, since this one is created in HyperSense you can easily rearrange the layout, or add additional buttons for specific functions that are important to you.

Importer.sense

This document is used to import HIFF files to create HyperSense documents. A HIFF file is an intermediate representation of a HyperCard Stack, created on a Macintosh using the ConvertIt!™ software from Heizer Software. ConvertIt! is not included with the demo release of HyperSense. (See the file ImportingStatus.rtf in the ReleaseNotes directory, and the portions of the online manual dealing with HyperCard importing for more information).

Map.sense

The Map document (accessed from the first page of the DemoAddressBook) contains only one page, but illustrates one use of multiple layers on a page. By calling up the LayerPanel (type *Command-Shift-L*), you can see a list of all of the layers on the page. Clicking on the switches at the bottom of the page will alternately hide and show some of the layers. Moving the hand cursor over

one of the cities (when the Cities are showing) will display a different layer containing data about that city. Pointing to the heading at the top of the page will display information about the County. Clicking on the button labelled "Newspaper" will open another HyperSense document (Newsletter.sense).

Mathematics.sense

This example presents one idea for a simple arithmetic tutorial, with sound and graphic reinforcement. For best effect, this document requires a NEXTSTEP system with audio capabilities. Created by Todd Nathan.

Newsletter.sense

This document is another example using multiple layers on a single page, and shows the potential for using HyperSense for simple layout applications (the capability of flowing text automatically from one field to another is planned for a future release). With the LayerPanel open, you may Command-click on the names of the three layers (click while holding down the *Command* key) to hide and show the individual layers. (*Note: this document is too large to display properly on small screens.*)

OtherTools.sense

This panel, accessed by selecting "Other Tools" from the Tools menu, is a multi-page palette of drag-and-drop tool elements for creating your own documents. In addition, it is itself a fully-customizable HyperSense document. The *Commands* button at the top of the window will display several other buttons which make creating custom palettes easier (click anywhere outside

these buttons to hide them again).

PasteMaster.sense

If you work with text at all, you'll find this to be a handy place to store frequently-used phrases or paragraphs, or for those times when you are juggling paragraphs and wish you had more than one pasteboard. Simply copy some text to the pasteboard (using *Command-c* from any application) and click one of the "Store" buttons. To retrieve that piece of text later, click the corresponding "Use" button to restore it to the pasteboard; then paste it wherever you need it (using *Command-v*). This little application is a perfect illustration of HyperSense's usefulness for creating small utility programs ± it was conceived, designed, created, and refined in about an hour. [*note: when running in Demo mode, anything stored into PasteMaster will be lost when the document is closed*].

WindowFrame.sense

This document describes and illustrates the distinction between WindowFrames, Stacks, and Pages within a HyperSense document.