Lotus® Improv™ Application Programming Interface (API) Toolkit

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The Lotus Improv API Toolkit

The Lotus Improv Applications Programming Interface (API) consists of a set of C-language calls that execute commands and retrieve information from Improv. Use these calls to extend the capabilties of Improv by automating procedures and building customized panels.

Installing the API Toolkit and Examples

The single Lotus Improv API Toolkit diskette contains all the files necessary for installation. The installation procedure should take about one minute. To build the API Examples will take a few minutes more.

Before you start

Make sure you have Lotus Improv 1.0 installed on your hard disk. You must have a NeXT developer's system with NeXTStep 2.0 extended to install and use the Improv API Toolkit.

To install Improv API Toolkit on your NeXT computer hard disk

- 1. Power on you NeXT computer and log in using your user name and password.
- 2. Insert the Improv API Toolkit diskette into the disk drive.
- 3. Locate the file /Lotus Improv API Toolkit/ImprovAPIToolkit.pkg in the File Viewer. Double-click the icon for the ImprovAPIToolkit.pkg file to begin the installation

process.

- 4. The Installer application launches and displays a panel named Improv API Toolkit and Documentation.
- 5. Click the Install button in the upper-left corner of the panel.
- 6. A File Viewer panel is displayed in which you can select the directory for the Improv API Toolkit installation. Click your home directory and click OK.
- 7. A confirmation panel is displayed indicating that the Improv API Toolkit will be installed in your home directory. Click Install. All the files in the Improv API Toolkit package are copied into your home directory automatically.
- 8. The Installer tells you when the installation is complete. At that time select **Quit** to leave the Installer application.
- 9. From the File Viewer, open your home directory. Choose View Update Viewers.

Contents of the Lotus API Toolkit

The following directories should be installed on your hard disk in the directory ImprovAPIToolkit:

Doc online documentation for the API Toolkit, including specification of each

function, information on how to run examples, and information about how

to build modules. You can install the API Documentation in Digital

Librarian for handy reference.

Examples includes a READ ME Examples file with instructions for running API

Toolkit examples. Each example is contained in a subdirectory and

contains a **READ ME** describing the operation of the example.

Library API include file and library objects

makefile compiles the Library objects and Example modules and installs them into

your local .oakum directory

Source utility routines for adding new menu items and dynamically loading

modules (includes a makefile that compiles the modules and builds

OakumInit.o and imxClient.o)

Building the Improv API Toolkit Examples

The API Toolkit examples show some of the types of applications that can be built. See the **READ_ME_Examples** file in the **Examples** directory for instructions on running the examples.

1. Click the directory folder /ImprovAPIToolkit. The contents are listed above.

- 2. Open a terminal shell by double-clicking the icon for the NextApps/Terminal application.
- 3. Change the directory to the ImprovAPIToolkit directory by typing the following command and pressing Return:

cd ImprovAPIToolkit

4. Build the Improv API Toolkit Examples by typing the following command and pressing Return:

make install

What make install Does (Optional Reading)

- Builds the MenuServer and Loader objects (/Source) and binds them with the Server object to create the OakumInit.o file. OakumInit.o enables Improv to dynamically load modules created using the API Toolkit. (The file ClientInit.o is also created by binding the MenuServer and Loader with the Client object to give the stand-alone GenericApp the same functionality. For more information, see Building API Modules in the documentation.) Also copies the OakumInit.o and ClientInit.o files into the .oakum directory.
- Builds all the modules in the Examples directory
- Copies all the example module objects from the /Examples subdirectories into .oakum. Modules are automatically loaded and the Tools menu populated when Improv is launched if their object (.mod) files are copied into the .oakum directory in the home directory. (The .oakum directory appears in the File Viewer only if UNIX Expert has been chosen in the **Preferences**.)
- Issues the command dwrite Improv enableOakumPort YES. It is essential to the operability of the API Toolkit.