Starting Up

Obtaining a Password

If you have not purchased a license for A WorkLife FrameWorkTM you can do so at the Scientific Arts website:

http://scientificarts.com/worklife/purchase

After purchasing a license you can then request a password with the following form (click on the link to open the form):

Password Request Form

If you do not wish to purchase a license at this time you may still use A WorkLife FrameWork™ for a 15 day trial period. To request a trial password use the following form (again, click on the link to open the form):

Trial Password Request Form

Each of these password request forms opens a Mathematica notebook that has input fields for your name and email address. (The links above and other links and buttons in this document only work when it is viewed in its Mathematica notebook format rather than in its PDF format.) When the button on the form is clicked an email will be generated in your default email client that you can then send from it. Please do not change any of the information that is contained in the email as this may delay the processing of your password request. For any questions please send email to support@scientificarts.com.

Quick Start

To install the package and its password without reading the rest of this file first, follow the following directions.

To install the package, open the InstallWorkLifeFrameWork.nb notebook (located in the top level Directory of the WorkLife FrameWorkTM distribution directory) from within *Mathematica* or click on the following Button:

Install A WorkLife FrameWork TM

The password installation dialog will open after you install the product. To install the password separately (after installing the product) you can open the InstallWorkLifeFrameWorkPassword.nb notebook (located in the top level Directory of the WorkLife FrameWorkTM distribution directory) from within *Mathematica* or click on the following Button:

Install WorkLife FrameWorkTM Password

Installing the Package

This ReadMeFirst notebook is contained within the top level Directory of the WorkLife FrameWorkTM distribution directory. If you received this software via a download from the web, it will generally be in compressed form. To proceed further you must extract the files from the compressed archive using the standard method provided by your Operating System. Once this is done you should reopen this ReadMeFirst.nb file from within *Mathematica*.

- Within your WorkLife FrameWork™ distribution there are two versions of the ReadMeFirst file:

 ReadMeFirst.nb and ReadMeFirst.pdf. The ReadMeFirst.pdf file is provided so that you can read this material even if you do not have Mathematica installed on your system. However, to install A WorkLife FrameWork™ you must be using the ReadMeFirst.nb Mathematica notebook version. In the ReadMeFirst.pdf version the buttons that follow in this document will not work.
- Note that on some Operating Systems, and with some compression/decompression tools, you can open this file without having properly extracted the files first. The installation of this software requires that you first extract all of the files and then proceed with the installation from the extracted files.
- When extracting the files from the compressed distribution of A WorkLife FrameWork™ you should use the option Extract All if that is available.
- To install A WorkLife FrameWorkTM you must be working from a fully functional version of Mathematica rather than, for example, Mathematica in its MathReader mode.

To install the package, open the InstallWorkLifeFrameWork.nb notebook (located in the top level Directory of the WorkLife FrameWorkTM distribution directory) from within *Mathematica* or click on the following Button:

Install A WorkLife FrameWork TM

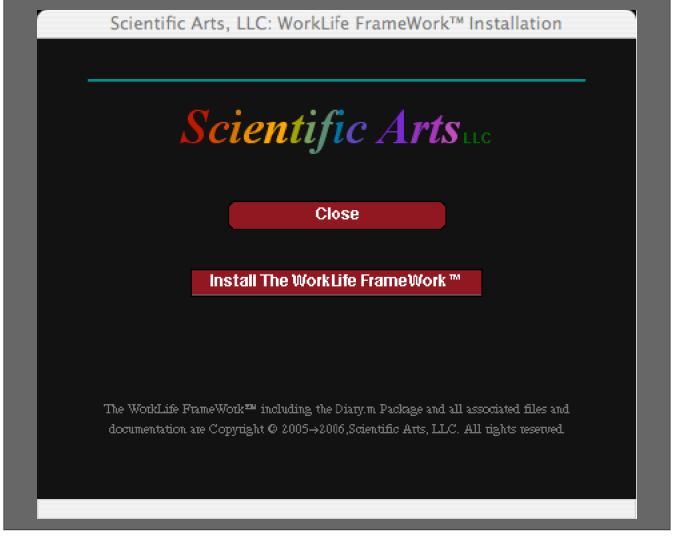
The InstallWorkLifeFrameWork.nb notebook is located in the WorkLifeFrameWork directory of the distribution that you downloaded. You can either open this installer directly from *Mathematica* or from the Button above.

After the installation is complete a dialog will also open in *Mathematica* to allow you to enter a password. A valid password can be obtained by purchasing a software license from *Scientific Arts*, **LLC** or one of it's authorized distributors.

If you have not yet paid for and obtained a license you can do so at the following web site:

http://scientificarts.com/worklife/purchase

The Installer Dialog looks like:



The WorkLife FrameWorkTM Installation Dialog

To Install the WorkLife FrameWorkTM package simply click on the package installs, several progress messages will appear below the button. After installation, the *Mathematica* Help Browser will be updated and then it will open to the WorkLife FrameWork'sTM documentation so that you may read about how to begin using the WorkLife FrameWorkTM.

Installing the Password

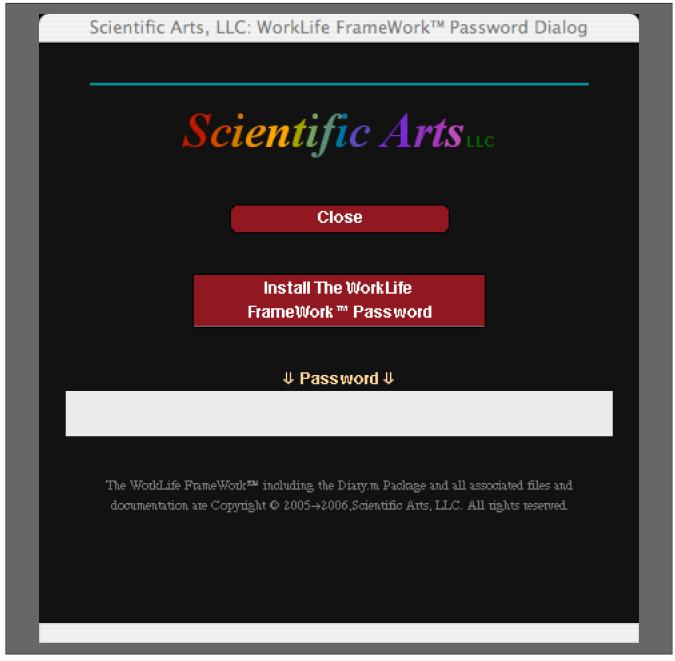
To use the WorkLife FrameWorkTM package it must be supplied with a password. After paying for the package and registering you will receive a password via email from *Scientific Arts*, **LLC**.

The password installation dialog will open after you install the product. To install the password separately (after installing the product) you can open the InstallWorkLifeFrameWorkPassword.nb notebook (located in the top level Directory of the WorkLife FrameWorkTM distribution directory) from within *Mathematica* or click on the following Button:

Install WorkLife FrameWorkTM Password

The InstallWorkLifeFrameWorkPassword.nb notebook is located in the WorkLifeFrameWork directory of the distribution that you downloaded. You can either open this password installer directly from *Mathematica*, from the Button above, or use the password installer that opens when you have completed installing the WorkLife FrameWorkTM.

The Password Installer Dialog looks like:



The WorkLife FrameWorkTM Password Dialog

Type your password in the Text field under the \$\psi\$Password\$ and then click on the Install The WorkLife FrameWork Password Button. The Password that you supplied with then be installed.

Note that, if the Password that you supplied is incorrect, when you attempt to load it the WorkLife FrameWork TM will not load and error messages will be generated. If this happens, run the Password Dialog again and reinstall your Password.

Introductory Slide Show

You can view an introductory self-paced Slide Show on the WorkLife FrameWorkTM by clicking on the following button after the package has been installed (viewing the Slide Show doesn't require that the password has been installed):

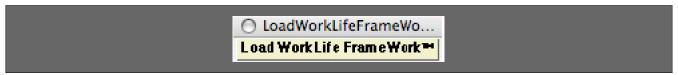
Starting the package

Initialization

If the package has been properly installed, then executing

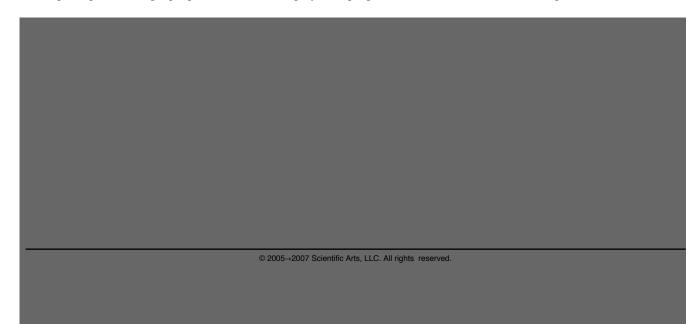
will make the package available for use.

There also is a small palette that will appear on your File>Palettes menu as the Load WorkLife FrameWork Palette. Clicking on its single button will load the Worklife FrameWorkTM if it has been properly installed. That Palette looks like:



The Load WorkLife FrameWorkTM Palette

As the package is loading a progress screen will display. The progress screen looks like the following:



Scientific Arts: A WorkLife FrameWork™ Package Loading...

Scientific Arts LLC

A WorkLife FrameWork for MATHEMATICA®

http://www.scientificarts.com/

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Code Loading: Initializing Parameters...

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The WorkLife FrameWorkTM Startup Screen

First Time Use of the Package

If this is the first time you are using the WorkLife FrameWorkTM Package a special dialog will appear.



The WorkLife FrameWork'sTM Select Directory Dialog: It only opens the first time you use the WorkLife FrameWorkTM

The two buttons on this dialog have the following behaviors.

Create Standard Directory

The Create Standard Directory button creates and chooses a default directory for Diaries.

Choose Directory

The **Choose Directory** button brings up the Directory Browser dialog box that allows you to navigate your computer's directories and choose one for the current Diary directory.

General use of the Package

After loading is complete, a number of palettes will display. Which palettes are opened depends on which ones were open the last time you used the package. One palette that is always opened upon loading the package is the WorkLife Tools Palette. (The one exception to this is the first time you use the package where the special palette described earlier will open.)

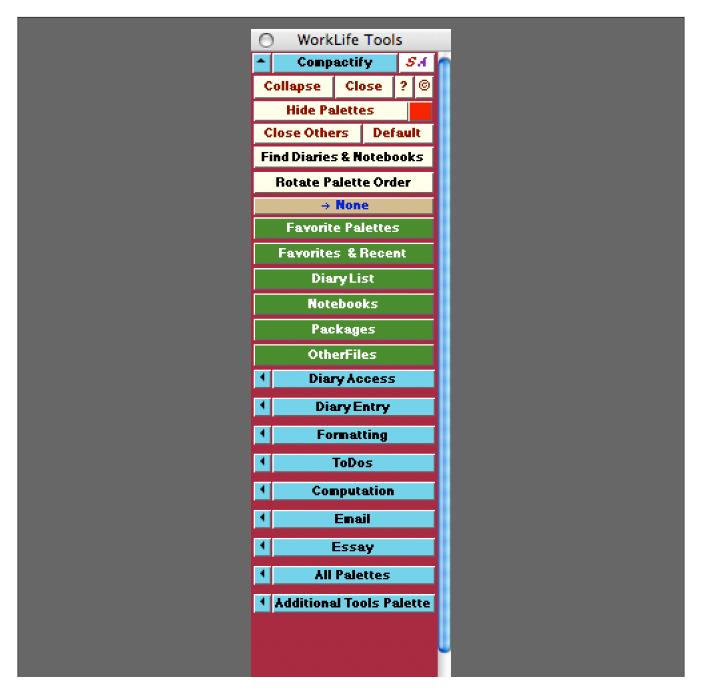
The WorkLife Tools Palette

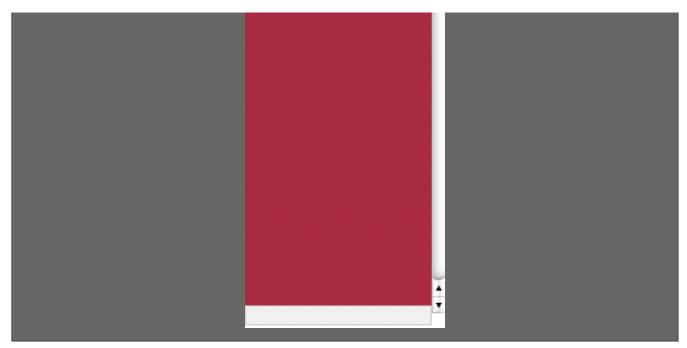
The WorkLife Tools Palette the general starting point for using the WorkLife FrameWorkTM Package. If it is not visible it can be opened by executing

WorkLifeToolsPalette[];

or by clicking the WorkLife Tools button on the All Palettes Palette.

When first opened or when Compactified the WorkLife Tools Palette looks like the following.



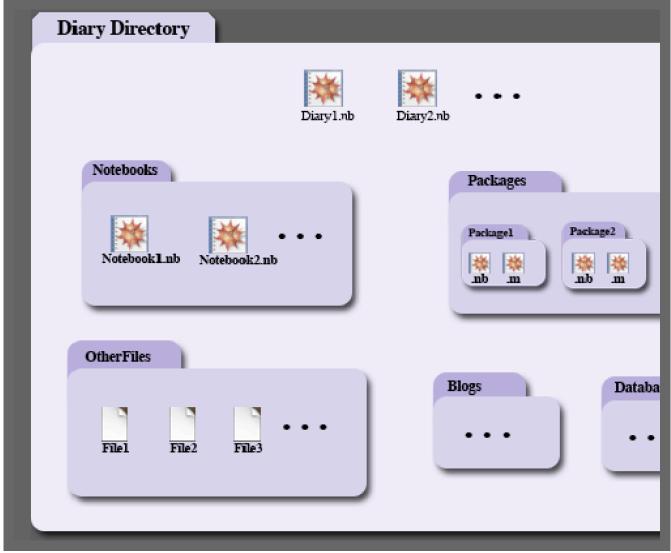


The WorkLife Tools Palette as it appears when first opened

In this image of the WorkLife Tools Palette all of its sub-palettes are seen to be closed. You can toggle between each of these sub-paletts by clicking on their main button—the **Diary Access** button in the cse of the **Diary Access** Palette. If you click on the • button to its left, the **Diary Access** Palette will open as a separate Palette in its own right, and this is the case for the other sub-palettes as well.

Notebook Types and Directories

The WorkLife FrameWorkTM, organizes your work in *Mathematica* into Diaries, Work Notebooks, and Package Notebooks. A Diary or group of Diaries sits in a directory that contains directories for the Work Notebooks and Package Notebooks that are associated with it. This is a simple organizational structure, but it becomes very powerful in the Work–Life FrameWork'sTM environment.



The Directory Structure of a Diary or an Associated Group of Diaries

Here the name "Diary Directory" could be any name that you have chosen for this particular set of diaries. There is no restriction on the number of Diary directories (or their names) or on the number of Diaries in a given Diary directory.

In the WorkLife FrameWorkTM, as in all *Mathematica* work in the FrontEnd, your work is done in *Mathematica* Notebooks. The architecture of *Mathematica* is remarkable and unique in that everything that you encounter is an expression even if, at first glance, it does not appear to be one. Prime examples are *Mathematica* Notebooks themselves. This architecture gives *Mathematica* the ability to interact with itself programmatically.

Every notebook that you make use of is an expression and, by making use of the right programming tools, the contents of the notebooks can be accessed, tracked, modified, and be made use of in further calculations.

From a very conventional perspective a *Mathematica* notebook is an arbitrary generalization of a spreadsheet; but, indeed, it is much more than that.

The WorkLife FrameWorkTM organizes and adds functionality to Notebooks so that they may be used more efficiently as a resource for these arbitrary generalizations. To do this notebooks are categorized into several types with some useful relationships between them.

While most people have a way of organizing their work on their computer's file system, the WorkLife FrameWorkTM provides a simple way to keep track of your work and enforces a very basic structure on how notebooks are stored. This structure, as you will see, still allows full creative license about what sorts of things you can do with notebooks, but makes it much easier to do things that you often avoid, and much simpler to keep track of your various distinct projects. But, in addition to this is opens up *many* new ways that you will ultimately use *Mathematica* in your day-to-day work flow.

There are three basic types of notebooks: Diaries, Work Notebooks, and Package Notebooks.

Diaries are the central organizational element of the WorkLife FrameWorkTM. They are of course notebooks, but with special properties and uses, some of which we will explore shortly. They also automatically exist in a directory structure that organizes them with their associated Notebooks and Packages (as well as Databases and other useful things).

Work Notebooks are traditional *Mathematica* notebooks, but with some additional internal structure that allows them to be tracked and processed more easily. Also these are automatically placed in a directory that organizes them with their associated Diaries. In the **WorkLife FrameWork**TM, these notebooks are simply referred to as "Notebooks."

Package Notebooks are where you create and organize *Mathematica* code that you want to reuse and share by exporting the code as a .m file that can be read in using *Mathematica*'s function Needs. This is done automatically upon saving these Package Notebooks using a standard *Mathematica* mechanism. The Package Notebooks are automatically placed in a directory that organizes them with their associated Diaries.

In addition to these three basic notebook types there are other elements that we will discuss later including Databases, Blogs, Tracking Notebooks and other interesting tools.

Each time you choose a directory and create a Diary in it with the WorkLife FrameWorkTM, that Diary's directory is populated with several subdirectories:

Notebooks

The Work Notebooks are located here. In addition, there is a subdirectory to the Notebooks directory called Scratch. In here are Scratch Notebooks. Often when working in *Mathematica*, even though you are writing things carefully in a Notebook, you will want to do some quick free form calculations to figure various things out, just as you would with a spare pad of paper while writing something in a more organized fashion. Scratch Notebooks can be created for this purpose (by using the New Scratch button on the Notebooks Palette) and will be automatically stored in the Scratch subdirectory.

♦ Packages

The Package Notebooks are located here.

♦ OtherFiles

Any other files that are relevant to your set of diaries and their associated notebooks are located here. These might be text documents, various types of data files, image files, any other files that are intended to be opened by other applications, or any files other than *Mathematica* notebooks that are of importance to the work of the particular set of diaries in the containing directory.

♦ Databases

WorkLife FrameWork™ Databases that you have created are located here.

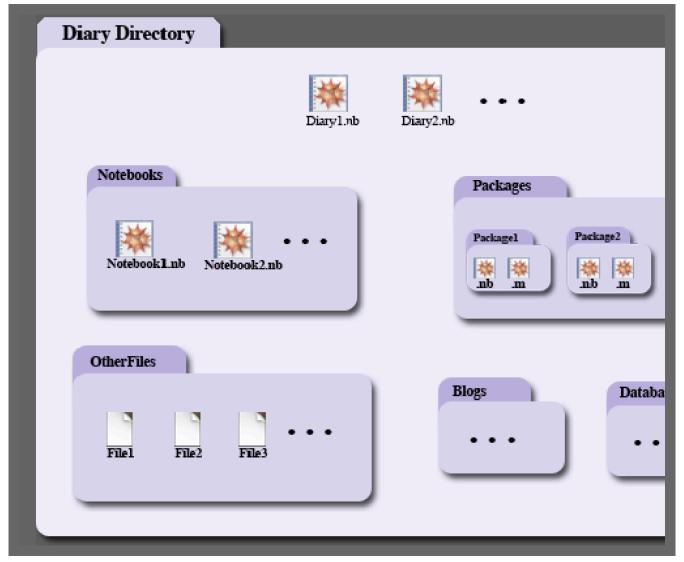
♦ Blogs

Blogs associated with the Diaries in the containing directory are located here.

Other Directories that depend on actions taken on or within a diary...

There may be other directories within a Diary's directory. Whereas all of the preceding directories are always present (and created automatically when a new Diary is created) there are several other directories that might be created if particular actions are taken.

Again, the schematic illustration of the directory structure of a set of Diaries shows how this is organized:



The Directory Structure of a Diary or an Associated Group of Diaries

- As a very general rule to follow, you should not place Diaries within any of the standard subdirectories of a Diary folder: Notebooks, Packages, OtherFiles, Blogs, and Databases. Nothing terrible will happen, but it can cause confusion and disorganization. The WorkLife FrameWork™ does check whether you are creating Diaries in such directories, but if you wish you can subvert these checks. However, it's best not to. Note though, that it is fine to create another Diary Directory within a Diary Directory. This nested Diary Directory will have its own Notebooks, Packages, OtherFiles, Blogs, and Databases subdirectories.
- Here the name "Diary Directory" could be any name that you have chosen for this particular set of diaries.

 There is no restriction on the number of Diary Directories (or their names, though of course it's sensible to give each Diary Directory a different name) or on the number of Diaries in a given Diary directory.
- However, within a Diary Directory, the subdirectories Notebooks, Packages, OtherFiles, Blogs, and Databases always have exactly those names.

Next Steps

The material in this ReadMeFirst file is the starting point.

To explore some of the features of this package you can click through several slide shows that are opened with the following buttons.

Introductory Overview

You can view an introductory self-paced Slide Show on the WorkLife FrameWorkTM by clicking on the following button after the package has been installed (viewing the Slide Show doesn't require that the password has been installed):

'kLife FrameWork TM Introductory Slide S

Creating a Diary

An introductory self-paced Slide Show on how to create a Diary. Click on the following button after the package has been installed (viewing this Slide Show doesn't require that the password has been installed):

Creating a Diary Slide Show

Simple Journaling

An introductory self-paced Slide Show on how to create a Diary. Click on the following button after the package has been installed (viewing this Slide Show doesn't require that the password has been installed):

Simple Journaling Slide Show

More Details

To learn how to use the various Palettes and functions in the WorkLife FrameWorkTM in detail please explore the full documentation supplied in the *Mathematica* Help Browser after the WorkLife FrameWorkTM has been installed. To access the WorkLife FrameWorkTM documentation please click on the following button, or go to the *Mathematica* Help Browser under Add Ons and click on Worklife.

pen WorkLife FrameWork™ Documentatio

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