

Installation instructions for Mac OS X

This section gives an overview of the necessary procedures for installing the *machine learning framework (mlf)* for *Mac OS X*. Please follow these instructions for the installation of the *machine learning framework* and for its use in the *Mathematica* front end step by step.

Legal notice: The use of the *machine learning framework* is subject to a license agreement, which you have obtained together with this document. If you do not agree to be bound by the conditions of this license agreement, delete all files related to the *machine learning framework* (e.g. the downloaded archive and the extracted files) and do not install the *machine learning framework*.

■ Basic Requirements

The *machine learning framework* for *Mathematica* 2.0 requires a 64-bit compatible Intel Mac running *Mac OS X* 10.6 or higher and *Mathematica* 7.0 or higher. *Mathematica* is not part of the *machine learning framework* for *Mathematica* and needs to be installed beforehand. Follow the installation instructions for *Mathematica* given by its producer, Wolfram Research, Inc.

■ Installing the *machine learning framework* in the *Mathematica* Front End

Introduction

To make the *machine learning framework* available in the *Mathematica* front end, the following steps have to be performed:

- Install *Mathematica*
- Install the *machine learning framework* package

After these steps have been finished successfully, the *machine learning framework* may be started in the *Mathematica* front end.

Note: When the *machine learning framework* is loaded for the first time, the license management is invoked automatically; license management will be described in detail later on.

Installing *Mathematica*

If you have not installed *Mathematica* on your system yet, please follow the instructions for the installation of *Mathematica* as given by its producer, Wolfram Research, Inc.

Installing the *machine learning framework* Package

In order to install the machine learning framework on a Mac OS X system, mount the disk image `mlf-setup.dmg` by double-clicking it in the Finder. In the upcoming window titled `mlf-setup`, double click on the installer package `mlf-setup.pkg` to start the installation process.

After the Installer application has been started, just follow the setup instructions.

Note: If you want to install *mlf* for all users on your computer, you need administrator privileges.

Note: If you already have an older version of the *machine learning framework* installed, make sure that it does not run (quit the *Mathematica* kernel in case of doubt).

The *machine learning framework* will be installed in one of the *Mathematica* application package directories (in `/Library/Mathematica/Applications` for all users on the current machine or in `~/Library/Mathematica/Applications` just for the installing user). If a directory named “`mlf`” already exists in this directory, the existing installation of the *machine learning framework* will be upgraded to the new version.

You can find your actual application package directory of *Mathematica* by checking the value of the global *Mathematica* variable, `$BaseDirectory` or `$UserBaseDirectory` (and add `"/Applications"`). If the given directory does not exist yet, it will be created.

Start the *machine learning framework* in the *Mathematica* Front End

Now the *machine learning framework* may be started in the *Mathematica* front end:

```
In[2]:= Needs["mlf`"]
```

At the first start of the *machine learning framework* after installation, you will be informed that no license file was found. Please follow the instructions printed into the *Mathematica* notebook and send the required information to `mlf@unisoftwareplus.com`. The required "Machine ID" will identify your hardware. You will then be sent a hardware-locked licence file (`license.enc`) which you should copy into your *mlf* base directory. You can find the *mlf* base directory by checking the value of the *Mathematica* variable `$MLFBaseDirectory`, which is available after loading *mlf* (even if aborted due to a missing license). A typical *mlf* base directory is `/Users/<user>/Library/Mathematica/Applications/mlf`.

Now quit the *Mathematica* kernel and re-load *mlf*, which should now run on your computer.

For more details regarding licencing, see further below.

License management

This section gives an overview of the necessary procedures to get a valid licence for the *machine learning framework*. Please follow these instructions step by step.

■ Introduction

The license management is completely integrated into the *machine learning framework* and therefore no extra license management tool is needed. All you need is a hardware-locked license file which will be issued on request and which you have to copy to your mlf base directory. You can find the mlf base directory by checking the value of the *Mathematica* variable `$MLFBaseDirectory`, which is available after loading *mlf* (even if aborted due to a missing license). A typical mlf base directory is `"/Library/Mathematica/Applications/mlf"`.

Two kinds of license certificates for the *machine learning framework* are available:

- Temporary evaluation license
- Permanent single-user hardware-locked license

A license file can be requested by sending a mail with the required information to

`mlf@unisoftwareplus.com`

You will get the required information (including the "Machine ID") by evaluating `"Needs["mlf`"]"` in a *Mathematica* notebook. Please follow the instructions printed out there (if you do not already have a valid license file).

A permanent license requires a purchase of *mlf*. A temporary 30-day license will be issued for free.

■ Temporary Evaluation Licenses

For evaluation purposes, you can use a *free* evaluation license. This license allows you to evaluate the product for a period of 30 days. Simply install the *machine learning framework* and evaluate `"Needs["mlf`"]"` in a *Mathematica* notebook to get the required information as explained above. A temporary evaluation license is *absolutely free*.

■ Permanent Licenses

Permanent hardware-locked licenses are distributed by `mlf@unisoftwareplus.com` following a purchase of the *machine learning framework*.

To purchase the *machine learning framework*, contact your distributor. To subsequently get an license file, contact `mlf@unisoftwareplus.com`.

Warning: If you change hardware items on your computer (network card, hard drive, etc.), your

license file may become invalid. In this case please contact us and you will receive a new one.

■ Uninstalling the *machine learning framework*

For uninstalling the *machine learning framework*, simply delete the directory "mlf" in the respective application package directory of *Mathematica* (e.g., `"/Library/Mathematica/Applications/mlf"`). You can find your actual add-ons directory of *Mathematica* by checking the value of the global *Mathematica* variable, `$BaseDirectory` (and add `"/Applications"`).