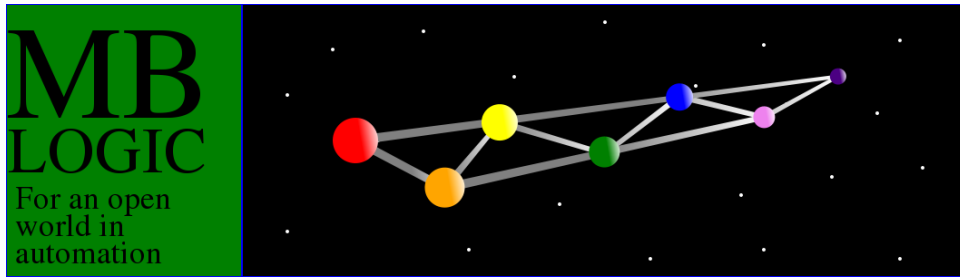


# HMIBuilder - Installation (17-Mar-2011)



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## General

This document provides help with initial installation. Full documentation is available after installation via the on-line help feature. See below for information on how to access on line help.

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## Downloading the Software

MBLogic HMIBuilder can be downloaded from the following location:

```
http://sourceforge.net/projects/mblogic/
```

For more details, visit the website at the following location:

```
http://mblogic.sourceforge.net/
```

If you need help on how to download the files, you will find more information there on the main web page.

You will also need the Inkscape drawing editor to create the HMI drawings. This is a free open source third party program and can be downloaded from the following location:

```
http://inkscape.org/
```

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## Installing the Base Application

### Overview:

The application is distributed as a source archive file. For most platforms (including Linux), this is a "tar.gz" file. For MS-Windows, this is a "zip" file. The MS-Windows version has the special new-line character combination (CR-LF) required by that platform, but is otherwise identical to the standard version.

### Installation:

- 1. Select or create a directory into which to extract the application files.
- 2. Extract the archive file into the desired location.
- 3. Several sub-directories will be created as part of the extraction process.
- 4. The application itself will now be installed. However, you cannot run it until you install the third party support software (see the help instructions on how to perform that step).

You should see the following items present in the application directory.

### HMIBuilder Application Directory Contents:

There will be a directory called "hmibuilder". It will contain a number of files with ".py" extensions. These are part of the application program itself. These files will be automatically compiled to ".pyc" files when the application first starts. There will also be several sub-directories with additional files, as well as html web pages for the help system. There is nothing in these directories that you will need to change.

### HMISVGArt SVG Widget Directory Contents:

There will be a directory called "HMISVGArt". It will contain a number of subdirectories, each of which in turn contains a number of SVG files. Each SVG file is a "widget" such as a push button or pilot light. You can use these widgets to help create your HMI drawings. There will be more than 1000 widget files in total.

You can move this directory to wherever you may find convenient. You will copy (drag and drop) these files into your HMI drawing using Inkscape.

## Template Directory Contents:

There will be a directory called "templates". These contain various template files that you will need to use to create your finished HMI web page.

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## Installing Third Party Support Software

### Overview:

The system is built on the following third party package which must be installed separately before the system will function. This third party packages is called "Python" and is the run time language support for the Python programming language.

The system has been tested with Python version 2.6. Other versions may work but have not been tested, so version 2.6 is recommended.

### Obtaining and Installing Third Party Software:

The required third party software can be obtained from the following locations.

#### For Linux:

For Linux, Python is usually already installed as part of the standard OS distribution.

#### For MS Windows:

Python may be downloaded from the following location:

Python - <http://Python.org>

Make a note of where you installed this, as you may need to adjust your start-up batch file if it is in an unexpected location. (Note, the actual install screen may look slightly different from the one shown below). Run the installer and follow the instructions in the install menus.



## Installing on Mac OS/X:

There is no documentation for installing on Mac OS/X. However, newer versions of OS/X may come with Python already installed.

## Testing Third Party Software:

To test if the third party software installation is working, you can do the following (you can skip this step if you wish).

### For MS Windows:

For MS-Windows, open a command shell window and run the Python interactive command interpreter. When starting Python, you will need to include the full path name to the Python interpreter. For example: "C:\Python26\python" You should see something like the following:

```
Python 2.6.2 (release26-maint, Apr 19 2009, 01:58:18)
[GCC 4.3.3] on linux2
Type "help", "copyright", "credits" or "license" for more information.
>>>
```

To exit Python, press "control-Z" (press the control and "z" keys simultaneously).

---

## Starting the Application

When all software has been installed, you can start the application.

### Starting from Linux:

Do *one* of the following:

- If you are using Gnome, double click on the "hmibuilder.py" file.
- **Or from the command line, type `./hmibuilder.py`. You can also create**  
a desktop launcher and add it to your menus using the normal Gnome or KDE techniques.

### Starting from MS Windows:

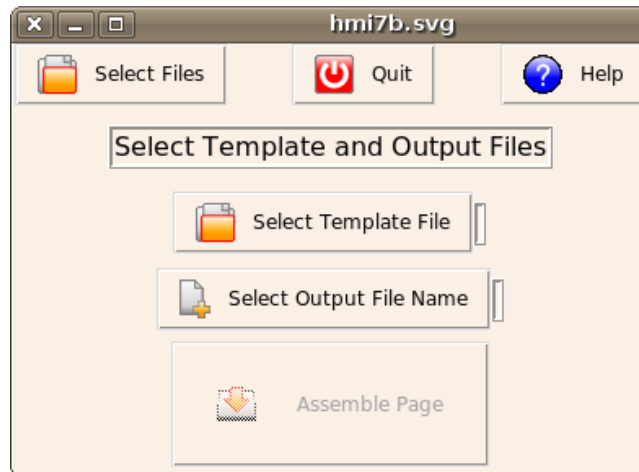
Do *one* of the following:

- If you are using the MS-Windows GUI, double click on the "hmibuilder.bat" file.
- *Or* from the command line, type "hmibuilder.bat".

The batch file ("hmibuilder.bat") assumes that you have installed Python version 2.6, and that you have installed it in the default location ("C:\Python26"). If you have a different version of Python installed, or have installed Python in a different location, you will have to edit the batch file accordingly. To edit the batch file, open it with a text editor (e.g. MS Notepad), and change the "C:\Python26\python hmibuilderhmibuilder.py" to match the version and location of your Python installation.

## Start Up Screen

When the program starts up, you should see a window which looks something like the following:



---

## Accessing Help Documentation

Once you have started HMIBuilder, you can access the documentation by clicking on the "help" button. This will start a small web server and then launch your default web browser



If your web browser does not launch for some reason, or if you wish to use a different (non default) web browser, you can access the default help web page with the following URL (you must click "help" first however):

```
http://localhost:8880/index.html
```

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## Exiting the Program

You may exit HMIBuilder by clicking on the "quit" button. The program should exit immediately.