

# Greylag Installation Guide

## Prerequisites

Building greylag requires [Python](#) version 2.5 or later, [SWIG](#) 1.3.31 or later, and reasonably recent versions of `g++` and `libstdc++`, and `make`. Recent Linux distributions will likely have sufficiently new versions, but you may have to install some of them. Under [Ubuntu](#) or [Debian](#) Linux, this should suffice:

```
$ sudo apt-get install python{,-dev} swig g++ make
```

If you also want to run the test suite and build the documentation, add:

```
$ sudo apt-get install python-{nose,profiler,docutils}  
$ sudo apt-get install texlive-latex-{extra,recommended} texlive-lang-french
```

Greylag was developed and tested on GNU/Linux, but in principle it should work (perhaps with minor modifications) under other flavors of Unix, Mac OS X, and [Cygwin](#) on Windows.

## Compiling

For a standard compile, just use

```
$ make
```

There are additional options you can try that might give a little extra speed--see the Makefile for more details.

Next, run the test suite:

```
$ make check
```

This will run a number of unit tests and several small searches.

Then

```
$ make install
```

will install to `/usr/local/lib/greylag`, or you can use

```
$ make DEST=/my/favorite/directory install
```

to install it elsewhere. Once it's installed, you can add this directory to your `$PATH`, or symlink the programs into an appropriate directory with a command like

```
$ cd /usr/local/bin  
$ ln -s ../lib/greylag/greylag-* .
```

(The programs must be able to find the module files: `greylag.py` and the `cgreylag` shared library. The easiest way to arrange this is to place them in the same directory as the programs, which the above steps accomplish.)

If `greylag-chase --help` gives you a usage message rather than a Python error, your installation is probably correct.

If you wish to install the documentation, which is a local copy of the [website](#), use

```
$ cd doc
$ make install
...or...
$ make DEST=/my/doc/directory install
```