

I think I got libsvm to install ok on perl. Here's how...

```
sr@debian:~$ sudo perl -MCPAN -e shell
Terminal does not support AddHistory.
```

```
cpan shell -- CPAN exploration and modules installation (v1.9205)
ReadLine support available (maybe install Bundle::CPAN or
Bundle::CPANxxl?)
```

```
cpan[1]> install Algorithm::SVM
CPAN: Storable loaded ok (v2.18)
Going to read /home/sr/.cpan/Metadata
  Database was generated on Mon, 30 Mar 2009 22:27:06 GMT
CPAN: YAML loaded ok (v0.68)
Going to read /home/sr/.cpan/build/
.....DONE
Found 10 old builds, restored the state of 10
Running install for module 'Algorithm::SVM'
Running make for L/LA/LAIRDM/Algorithm-SVM-0.13.tar.gz
  Has already been unwrapped into directory /home/sr/.cpan/build/Algorithm-SVM-
0.13-iNvnly
Could not make: Unknown error
Running make test
  Can't test without successful make
Running make install
  Make had returned bad status, install seems impossible
```

Now open a new command window, and go to the directory where the package was downloaded and un-tarred (you will need to sudo to get access rights)

```
sr@debian:~$ cd /home/sr/.cpan/build/Algorithm-SVM-0.13-iNvnly
```

```
debian:/home/sr/.cpan/build/Algorithm-SVM-0.13-iNvnly# ls -all
```

```
total 577
drwx----- 4 root root      768 2009-01-21 18:46 .
drwxr-xr-x 12 root root      912 2009-01-21 18:47 ..
-rw-r--r--  1 508 1000025  9745 2008-01-22 16:14 bindings.cpp
-rw-r--r--  1 508 1000025  2245 2009-01-21 18:46 bindings.h
-rw-r--r--  1 508 1000025  2225 2009-01-21 18:37 bindings.h~
-rw-r--r--  1 root root    16080 2009-01-21 18:46 bindings.o
drwxr-xr-x  8 root root      192 2009-01-21 04:31 blib
-rw-r--r--  1 508 1000025  1864 2008-01-22 16:37 Changes
drwxr-xr-x  3 508 1000025     80 2004-11-16 14:10 lib
-rw-r--r--  1 508 1000025  62019 2008-01-22 14:19 libsvm.cpp
-rw-r--r--  1 508 1000025   2156 2008-01-22 14:17 libsvm.h
-rw-r--r--  1 root root    90456 2009-01-21 18:46 libsvm.o
-rw-r--r--  1 root root   26812 2009-01-21 04:31 Makefile
-rw-r--r--  1 508 1000025    719 2005-12-23 14:32 Makefile.PL
-rw-r--r--  1 508 1000025    811 2004-11-16 13:40 Makefile.PL.solaris
-rw-r--r--  1 508 1000025    171 2002-10-30 16:00 MANIFEST
-rw-r--r--  1 root root         0 2009-01-21 04:31 pm_to_blib
-rw-r--r--  1 508 1000025   4446 2008-01-22 16:32 README
-rw-r--r--  1 508 1000025   1315 2004-11-16 13:40 README.solaris
-rw-r--r--  1 508 1000025  61530 2005-12-23 16:46 sample.model
```

```

-rw-r--r-- 1 508 1000025 61530 2008-01-22 16:25 sample.model.1
-rw-r--r-- 1 root root 0 2009-01-21 18:46 SVM.bs
-rw-r--r-- 1 root root 33072 2009-01-21 04:31 SVM.c
-rw-r--r-- 1 root root 139376 2009-01-21 18:46 SVM.o
-rw-r--r-- 1 508 1000025 4265 2008-01-22 16:24 SVM.xs
-rw-r--r-- 1 508 1000025 4867 2006-01-15 05:16 test.pl
-rw-r--r-- 1 508 1000025 0 2002-10-30 16:00 TODO
-rw-r--r-- 1 508 1000025 735 2006-01-14 05:34 typemap
debian:/home/sr/.cpan/build/Algorithm-SVM-0.13-iNvnly#

```

now edit **bindings.h** and add the lines highlighted in green.

```

#ifdef __BINDINGS_H__
#define __BINDINGS_H__

using namespace std;

#include <vector>
#include <map>
#include <assert.h>
#include <cstdlib>
#include <string.h>

#include "libsvm.h"

class DataSet {
    friend class SVM;

private:
    double label;
    struct svm_node *attributes;
    .
    .
    .

```

Build the package from the command line using **make** and then **make install**. This should automatically build and install the package into the perl repository. To check, return to the CPAN prompt

```

cpan[2]> install Algorithm::SVM
Algorithm::SVM is up to date (0.13).

```

This was done on Debian with GCC4.3 (I had the same problem with GCC4.1) i'm not sure why these include statements are missing from the source code, nor why it works on perl5.8...