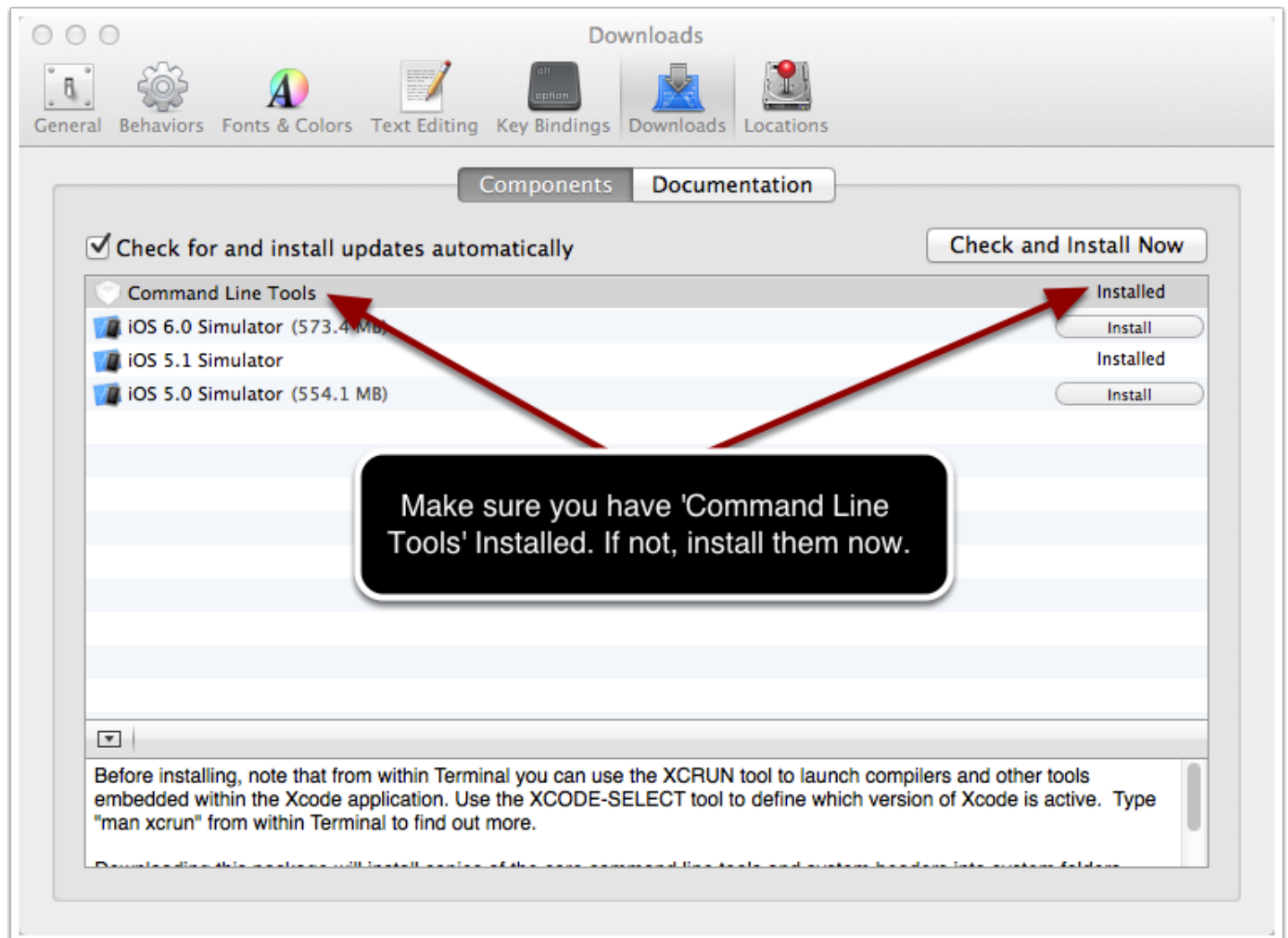


Installing the Perl Libraries

Ensure you have the Xcode command line tools installed.



Installing the PERL libraries...

If you have the command line tools installed, you should have perl.

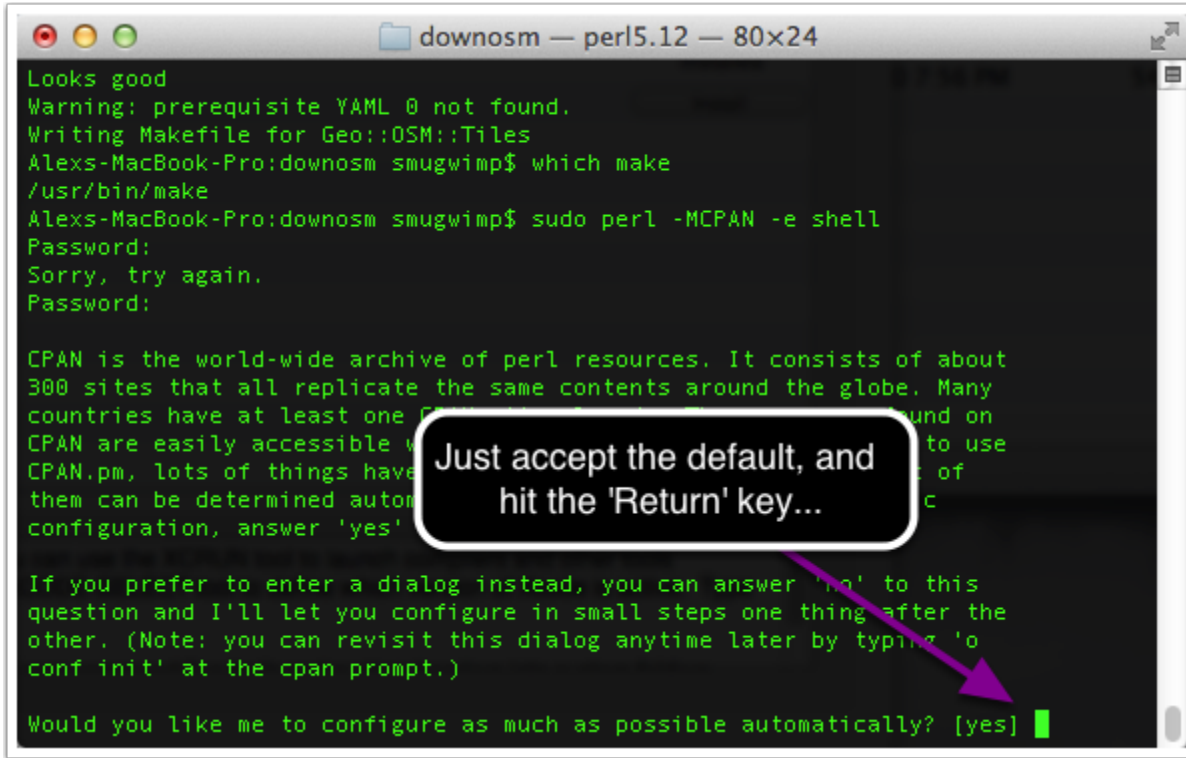
- 1) By default not the entire perl library is provided, so we'll need to download and install the other perl libraries.
- 2) To ensure you have the basic 'perl' installed, type '**which make**' at the command line.
- 3) If the response is '**/usr/bin/make**' then you're good. If not, you need to reinstall the command line tools.
- 4) If you're ready to download the extra perl libraries, type (at the terminal) "**sudo perl -MCPAN -e shell**" and press return. Enter your administrator password. Enter it correctly, unlike me.
- 5) The cursor will sit there for a while, like it's not doing anything. This is normal. I wish there was better feedback, but worry not; it's doing something.

```
Alexs-MacBook-Pro:~ smugwimp$ cd ~/Desktop/downsm
Alexs-MacBook-Pro:downsm smugwimp$ perl Makefile.PL
Checking if your kit is complete...
Looks good
Warning: prerequisite YAML 0 not found.
writing makefile for Geo::OSM::Tiles
Alexs-MacBook-Pro:downsm smugwimp$ which make
/usr/bin/make
Alexs-MacBook-Pro:downsm smugwimp$ sudo perl -MCPAN -e shell
Password:
Sorry, try again.
Password:
█
```

The screenshot shows a terminal window titled 'downsm — perl5.12 — 80x24'. The terminal output is annotated with five numbered circles and arrows: 1 points to the 'Warning: prerequisite YAML 0 not found.' line; 2 points to the 'which make' command; 3 points to the '/usr/bin/make' output; 4 points to the 'sudo perl -MCPAN -e shell' command; 5 points to the cursor at the end of the terminal output.

Downloading Perl Libraries...

Pretty soon text will start scrolling by. Sometimes you'll need to make a choice. You can pretty much accept the default choices provided...



The image shows a terminal window titled "downosm — perl5.12 — 80x24". The text in the terminal is as follows:

```
Looks good
Warning: prerequisite YAML @ not found.
Writing Makefile for Geo::OSM::Tiles
Alexs-MacBook-Pro:downosm smugwimp$ which make
/usr/bin/make
Alexs-MacBook-Pro:downosm smugwimp$ sudo perl -MCPAN -e shell
Password:
Sorry, try again.
Password:

CPAN is the world-wide archive of perl resources. It consists of about
300 sites that all replicate the same contents around the globe. Many
countries have at least one [redacted] found on
CPAN are easily accessible w[redacted] to use
CPAN.pm, lots of things have [redacted] of
them can be determined autom[redacted] c
configuration, answer 'yes'

If you prefer to enter a dialog instead, you can answer 'no' to this
question and I'll let you configure in small steps one thing after the
other. (Note: you can revisit this dialog anytime later by typing 'o
conf init' at the cpan prompt.)

Would you like me to configure as much as possible automatically? [yes] █
```

A callout box with a white border and rounded corners is overlaid on the terminal. It contains the text: "Just accept the default, and hit the 'Return' key...". A purple arrow points from the bottom of the callout box to the "[yes]" prompt in the terminal.

Downloading Perl Libraries...

You can pretty much accept the default choices provided...



The image shows a terminal window titled "downosm — perl5.12 — 80x24". The text in the terminal is as follows:

```
300 sites that all replicate the same contents around the globe. Many
countries have at least one CPAN site already. The resources found on
CPAN are easily accessible with the CPAN.pm module. If you want to use
CPAN.pm, lots of things have to be configured. Fortunately, most of
them can be determined automatically. If you prefer the automatic
configuration, answer 'yes' below.

If you prefer to enter a dialog instead, you can answer 'no' to this
question and I'll let you configure in small steps one thing after the
other. (Note: you can revisit this dialog anytime later by typing 'o
conf init' at the cpan prompt.)

Would you like me to configure as [yes]

Autoconfigured everything but 'url'

Now you need to choose your CPAN mirror sites. You can let me
pick mirrors for you, you can select them from a list or you
can enter them by hand.

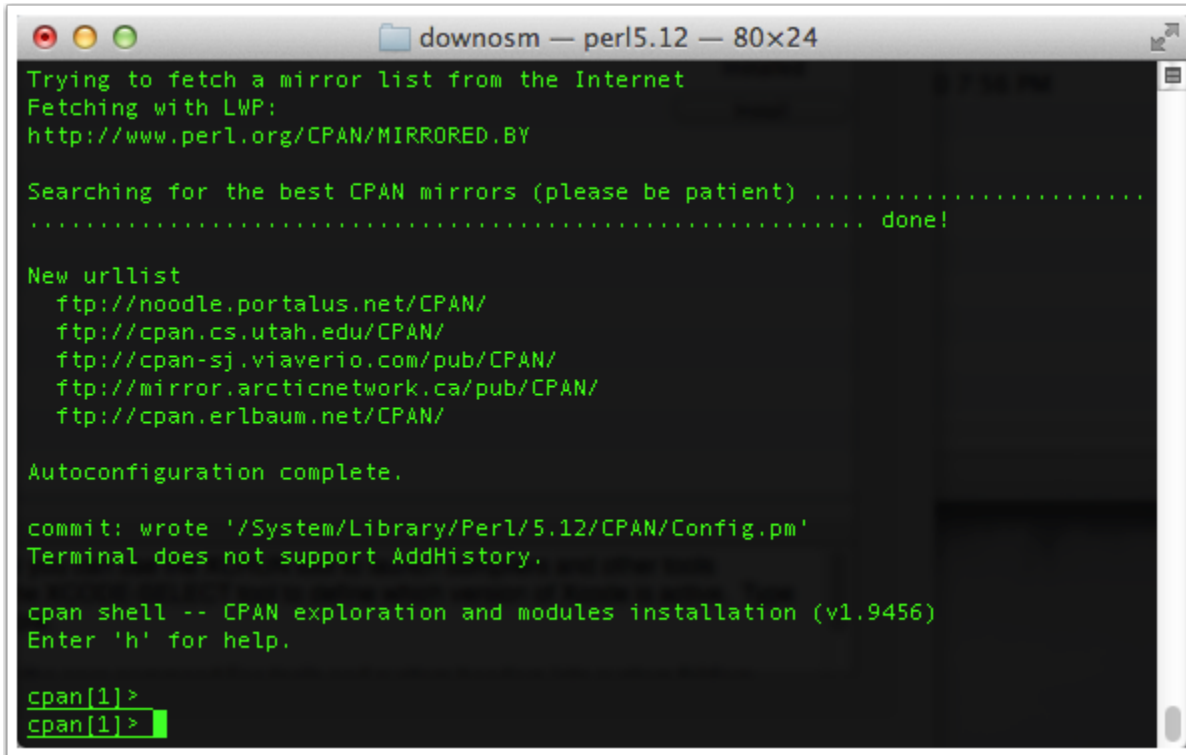
Would you like me to automatically choose the best CPAN mirror
sites for you? (This means connecting to the Internet and could
take a couple minutes) [yes] █
```

A callout box with a white border and black background contains the text "Accept the default and hit the 'Return' key...". A purple arrow points from this box to the "[yes]" prompt at the end of the terminal line.

Downloading Perl Libraries...

When you're finished, you should end up at a **cpan** prompt.

Type 'EXIT' to get out of cpan and back to your command prompt.



```
downosm — perl5.12 — 80x24
Trying to fetch a mirror list from the Internet
Fetching with LWP:
http://www.perl.org/CPAN/MIRRORED.BY

Searching for the best CPAN mirrors (please be patient) ..... done!

New urllist
ftp://hoodle.portalus.net/CPAN/
ftp://cpan.cs.utah.edu/CPAN/
ftp://cpan-sj.viaverio.com/pub/CPAN/
ftp://mirror.arcticnetwork.ca/pub/CPAN/
ftp://cpan.erlbaum.net/CPAN/

Autoconfiguration complete.

commit: wrote '/System/Library/Perl/5.12/CPAN/Config.pm'
Terminal does not support AddHistory.

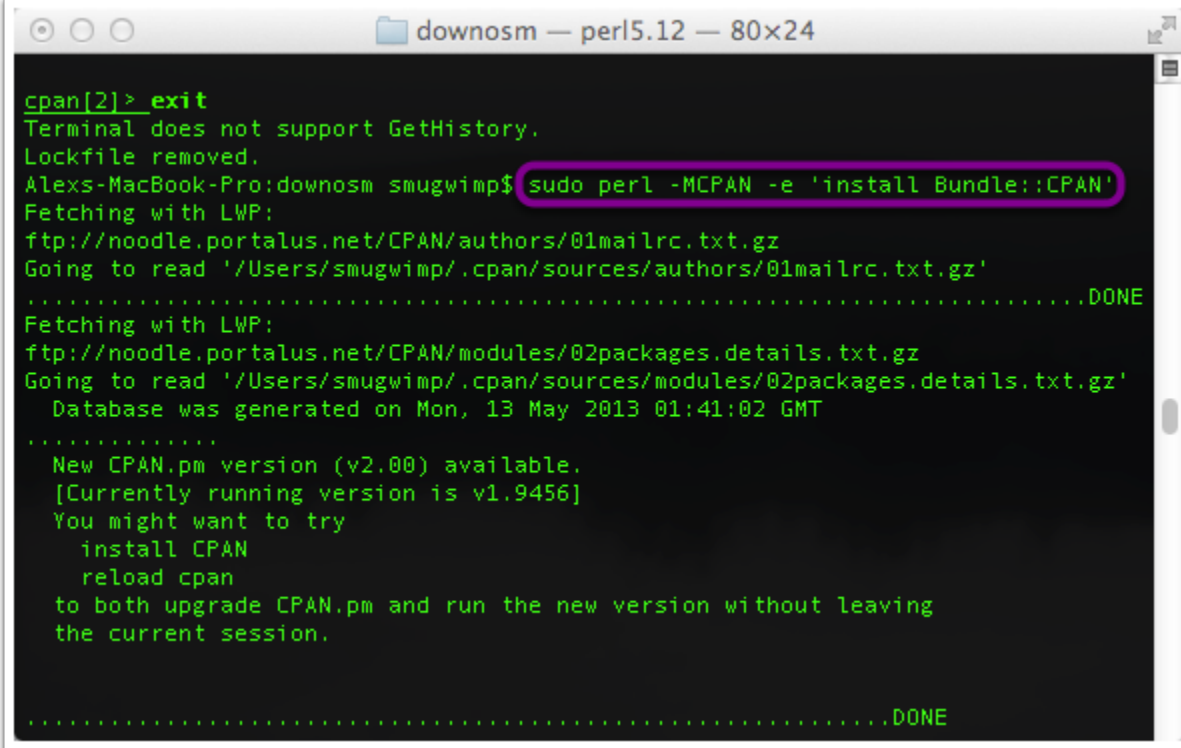
cpan shell -- CPAN exploration and modules installation (v1.9456)
Enter 'h' for help.

cpan[1]>
cpan[1]>
```

Installing Perl Libraries...

At the prompt type `'sudo perl -MCPAN -e 'install Bundle::CPAN'`

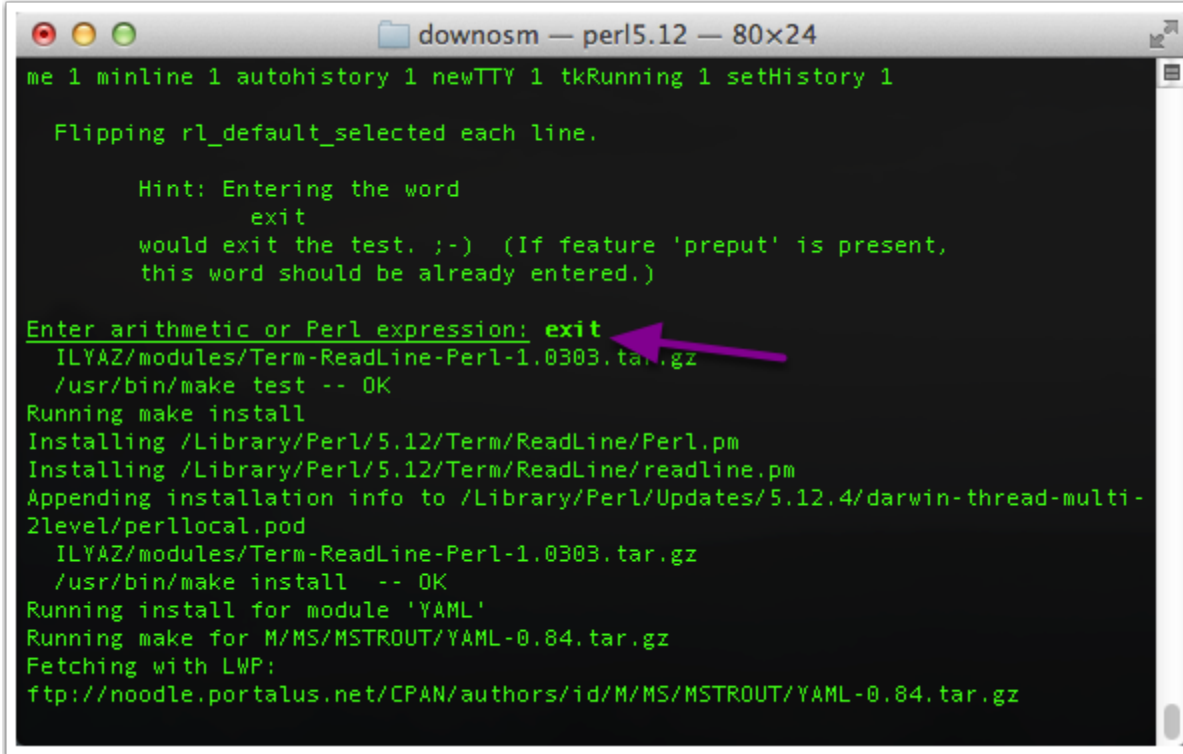
and return. This will take a bit...

A terminal window titled "downosm — perl5.12 — 80x24" showing the execution of the command `sudo perl -MCPAN -e 'install Bundle::CPAN'`. The terminal output includes messages about fetching files from CPAN, such as `ftp://noodle.portalus.net/CPAN/authors/01mailrc.txt.gz` and `ftp://noodle.portalus.net/CPAN/modules/02packages.details.txt.gz`. It also displays a notice about a new CPAN.pm version (v2.00) being available, suggesting to run `install CPAN` or `reload cpan`. The terminal ends with `.....DONE`.

```
downosm — perl5.12 — 80x24
cpan[2]> exit
Terminal does not support GetHistory.
Lockfile removed.
Alexs-MacBook-Pro:downosm smugwimp$ sudo perl -MCPAN -e 'install Bundle::CPAN'
Fetching with LWP:
ftp://noodle.portalus.net/CPAN/authors/01mailrc.txt.gz
Going to read '/Users/smugwimp/.cpan/sources/authors/01mailrc.txt.gz'
.....DONE
Fetching with LWP:
ftp://noodle.portalus.net/CPAN/modules/02packages.details.txt.gz
Going to read '/Users/smugwimp/.cpan/sources/modules/02packages.details.txt.gz'
Database was generated on Mon, 13 May 2013 01:41:02 GMT
.....
New CPAN.pm version (v2.00) available.
[Currently running version is v1.9456]
You might want to try
  install CPAN
  reload cpan
to both upgrade CPAN.pm and run the new version without leaving
the current session.
.....DONE
```

Installing Perl Libraries...

Eventually a prompt will come up after some self tests have performed. The default entry will be 'exit'. Just hit your return key, and let it continue...



```
me 1 minline 1 autohistory 1 newTTY 1 tkRunning 1 setHistory 1

Flipping rl_default_selected each line.

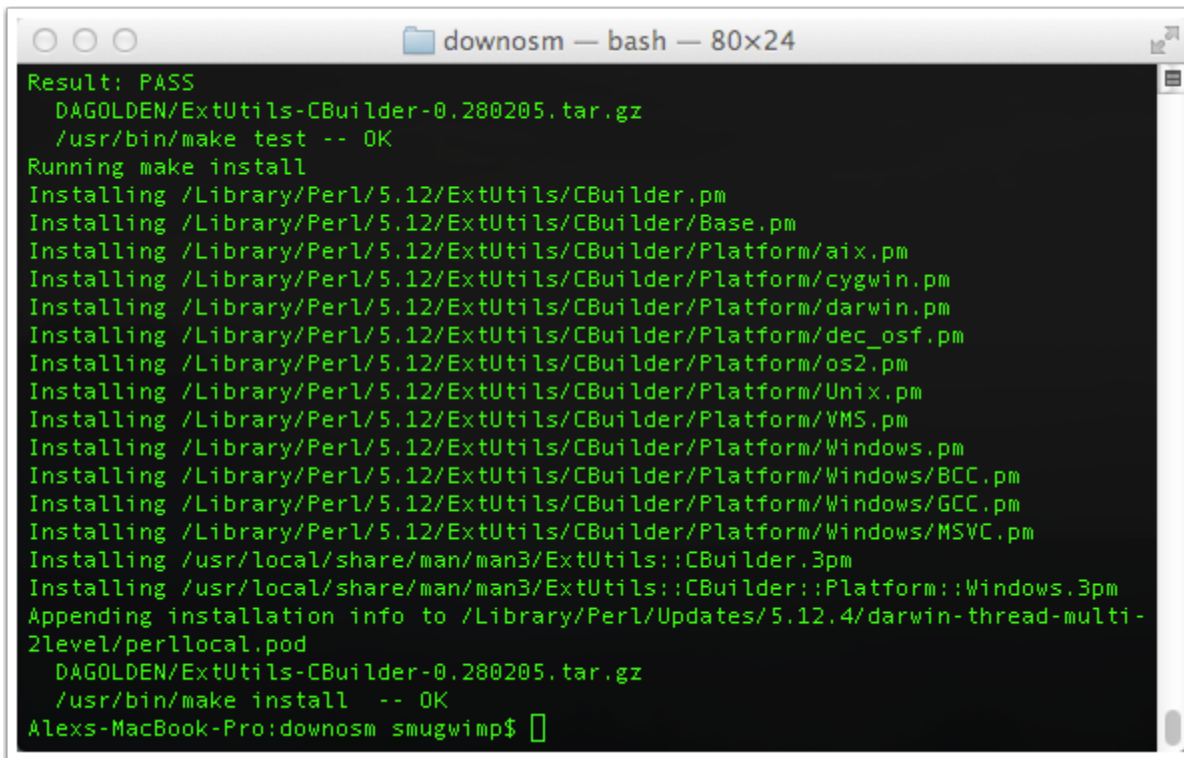
Hint: Entering the word
      exit
would exit the test. ;-) (If feature 'preput' is present,
this word should be already entered.)

Enter arithmetic or Perl expression: exit
ILYAZ/modules/Term-ReadLine-Perl-1.0303.tar.gz
/usr/bin/make test -- OK
Running make install
Installing /Library/Perl/5.12/Term/ReadLine/Perl.pm
Installing /Library/Perl/5.12/Term/ReadLine/readline.pm
Appending installation info to /Library/Perl/Updates/5.12.4/darwin-thread-multi-2level/perllocal.pod
ILYAZ/modules/Term-ReadLine-Perl-1.0303.tar.gz
/usr/bin/make install -- OK
Running install for module 'YAML'
Running make for M/MS/MSTROUT/YAML-0.84.tar.gz
Fetching with LWP:
ftp://noodle.portalus.net/CPAN/authors/id/M/MS/MSTROUT/YAML-0.84.tar.gz
```

Finish Installing Perl Libraries...

Finally, after some time (time varies, machine speed, internet connection... 30 minutes is not unusual) but you need to hang around to hit the 'Return' key from time to time... Accepting the default values is recommended.

Once you return to your prompt, you're done! All required Perl libraries have been installed. Yay.

A terminal window titled 'downosm — bash — 80x24' showing the output of a Perl installation process. The text is as follows:

```
Result: PASS
  DAGOLDEN/ExtUtils-CBuilder-0.280205.tar.gz
  /usr/bin/make test -- OK
Running make install
Installing /Library/Perl/5.12/ExtUtils/CBuilder.pm
Installing /Library/Perl/5.12/ExtUtils/CBuilder/Base.pm
Installing /Library/Perl/5.12/ExtUtils/CBuilder/Platform/aix.pm
Installing /Library/Perl/5.12/ExtUtils/CBuilder/Platform/cygwin.pm
Installing /Library/Perl/5.12/ExtUtils/CBuilder/Platform/darwin.pm
Installing /Library/Perl/5.12/ExtUtils/CBuilder/Platform/dec_osf.pm
Installing /Library/Perl/5.12/ExtUtils/CBuilder/Platform/os2.pm
Installing /Library/Perl/5.12/ExtUtils/CBuilder/Platform/Unix.pm
Installing /Library/Perl/5.12/ExtUtils/CBuilder/Platform/VMS.pm
Installing /Library/Perl/5.12/ExtUtils/CBuilder/Platform/Windows.pm
Installing /Library/Perl/5.12/ExtUtils/CBuilder/Platform/Windows/BCC.pm
Installing /Library/Perl/5.12/ExtUtils/CBuilder/Platform/Windows/GCC.pm
Installing /Library/Perl/5.12/ExtUtils/CBuilder/Platform/Windows/MSVC.pm
Installing /usr/local/share/man/man3/ExtUtils::CBuilder.3pm
Installing /usr/local/share/man/man3/ExtUtils::CBuilder::Platform::Windows.3pm
Appending installation info to /Library/Perl/Updates/5.12.4/darwin-thread-multi-2level/perllocal.pod
  DAGOLDEN/ExtUtils-CBuilder-0.280205.tar.gz
  /usr/bin/make install -- OK
Alexs-MacBook-Pro:downosm smugwimp$
```