

Presentation for PerlSemNY



"New CPAN Utilities in perl 5.10 Core:

CPANPLUS, cpanp, cpan2dist"

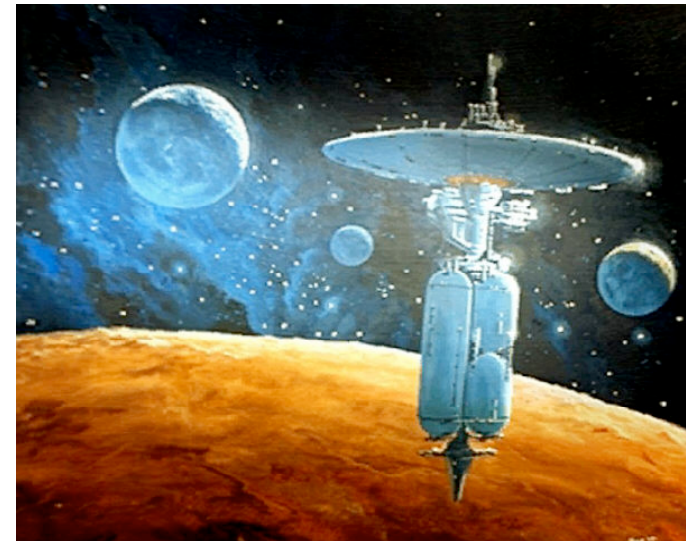
by Josh Rabinowitz

<http://joshhr.com>

<http://skateboarddirectory.com>

What We'll Cover:

- * CPAN in general: What is CPAN?
- * CPAN.pm: the old way
- * CPANPLUS: the future
- * cpanp: the CPANPLUS launcher
- * cpan2dist!



CPAN

The "Comprehensive Perl Archive Network"

- * code repository, & utilities for use, & websites
- * online since 1995-10-26
- * as of today:
 - * 4236 MB (4.2GB of tarballs)
 - * 236 mirrors
 - * 6503 authors
 - * 13220 modules



CPAN Websites

- * cpan.org -- master repository
- * search.cpan.org -- search engine for CPAN
- * kobesearch.cpan.org -- another search engine for CPAN
- * (the various mirrors)



The Good Ol' CPAN Shell

```
% perl -MCPAN -e shell  
or  
% cpan
```

invokes the "CPAN Shell"

- * can be used as a non-interactive installer
- * or as an interactive shell to find, examine, test, and install perl modules



The Good Ol' CPAN Shell, Part II



- * But the original CPAN Shell is not what this talk is about.
- * The old "CPAN.pm" module is old news.
- * Enter Stage Left: CPAN++ (aka "CPANPLUS")

CPANPLUS (aka CPAN++)



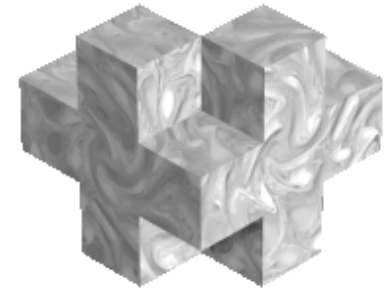
Brought to you by Jos Boumans,
Ann Barcomb, and Autrijus Tang
(not pronounced "outrageous")
and a cast including chromatic,
Schwern and others.

"A new and flexible method of perl module management and
installation using the Comprehensive Perl Archive Network"

CPANPLUS (aka CPAN++), Part II

Key Features and Things To Know:

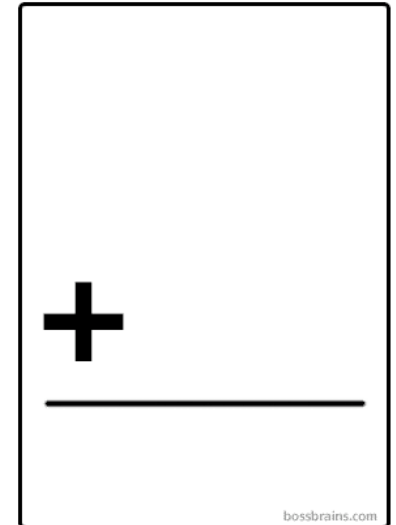
- * Modular architecture
 - allows plug-ins
 - allows multiple user interfaces
- * Provides three "levels": Internals, Backend and Shell
 - Shell is the default interactive shell which somewhat resembles CPAN.pm's shell
 - Backend is the script interface level (API).
 - Internals is the developer level.



CPANPLUS (aka CPAN++), Part III

More Things To Know

- * Intended to replace CPAN, but not as a 'drop in' replacement
 - * included in 5.10 (and future) cores
 - * expected to be renamed & CPAN.pm will be deprecated
 - * CPANPLUS "Classic" shell will provide "feel of" the ol' CPAN.pm user interface
 - * won't preserve backward compatability with CPAN.pm programmatic interface.



CPANPLUS (aka CPAN++), Part IV

Using the CPANPLUSPLUSPLUSPLUS++++ Shell (cpanp)

To invoke the CPAN++ shell, type

```
% perl -MCPANPLUS -e 'shell'
```

or just

```
% cpanp
```

for help, see

```
CPAN Terminal> h
```



CPANPLUS (aka CPAN++), Part V

Which yields:

```
[General]
  h | ?      # display help
  q          # exit
  v          # version information

[Search]
  a AUTHOR ...      # search by author(s)
  m MODULE ...      # search by module(s)
  f MODULE ...      # list all releases of a module
  o [ MODULE ... ]  # list installed module(s) that aren't up to date
  w            # display the result of your last search again

[Operations]
  i MODULE | NUMBER ... # install module(s), by name or by search number
  i URI | ...           # install module(s), by URI (ie http://foo.com/X.tgz)
  t MODULE | NUMBER ... # test module(s), by name or by search number
  u MODULE | NUMBER ... # uninstall module(s), by name or by search number
  d MODULE | NUMBER ... # download module(s)
  l MODULE | NUMBER ... # display detailed information about module(s)
  r MODULE | NUMBER ... # display README files of module(s)
  c MODULE | NUMBER ... # check for module report(s) from cpan-testers
  z MODULE | NUMBER ... # extract module(s) and open command prompt in it
```

(and)

CPANPLUS (aka CPAN++), Part VI

(continuing):

```
[Local Administration]
  b                               # write a bundle file for your configuration
  s program [OPT VALUE]          # set program locations for this session
  s conf      [OPT VALUE]        # set config options for this session
  s mirrors                               # show currently selected mirrors
  s reconfigure                    # reconfigure settings
  s selfupdate                     # update your CPANPLUS install
  s save [user|system]            # save settings for this user or systemwide
  s edit [user|system]           # open configuration file in editor and reload
  ! EXPR                          # evaluate a perl statement
  p [FILE]                        # print the error stack (optionally to a file)
  x                               # reload CPAN indices (purges cache)
  x --update_source               # reload CPAN indices, get fresh source files

[Common Options]
  i ... --skiptest                # skip tests
  i ... --force                   # force all operations
  i ... --verbose                 # run in verbose mode

[Plugins]
  /plugins                       # list available plugins
  /? [PLUGIN NAME]               # show usage for (a particular) plugin(s)
```

cpan2dist

- * Creates platform-specific installers for CPAN modules (and prerequisites).

- * RPMs *

- * Debian Packages,

- * what-have-you

- * currently there only seems to be 'support' for Mandriva RPMS



That's All, Folks!

* Any Questions

* Discussion?

