

NAME

CPANPLUS::Module

SYNOPSIS

```
### get a module object from the CPANPLUS::Backend object
my $mod = $cb->module_tree('Some::Module');

### accessors
$mod->version;
$mod->package;

### methods
$mod->fetch;
$mod->extract;
$mod->install;
```

DESCRIPTION

CPANPLUS:: Module creates objects from the information in the source files. These can then be used to query and perform actions on, like fetching or installing.

These objects should only be created internally. For fake objects, there's the CPANPLUS::Module::Fake class. To obtain a module object consult the CPANPLUS::Backend documentation.

CLASS METHODS

accessors ()

Returns a list of all accessor methods to the object

ACCESSORS

```
An objects of this class has the following accessors:
```

name

Name of the module.

module

Name of the module.

version

Version of the module. Defaults to '0.0' if none was provided.

path

Extended path on the mirror.

comment

Any comment about the module -- largely unused.

package

The name of the package.

description

Description of the module -- only registered modules have this.

dslip

The five character dslip string, that represents meta-data of the module -- again, only



registered modules have this.

status

The CPANPLUS::Module::Status object associated with this object. (see below).

author

The CPANPLUS:: Module:: Author object associated with this object.

parent

The CPANPLUS::Internals object that spawned this module object.

STATUS ACCESSORS

CPANPLUS caches a lot of results from method calls and saves data it collected along the road for later reuse.

CPANPLUS uses this internally, but it is also available for the end user. You can get a status object by calling:

```
$modobj->status
```

You can then query the object as follows:

installer type

The installer type used for this distribution. Will be one of 'makemaker' or 'build'. This determines whether CPANPLUS::Dist::MM or CPANPLUS::Dist::Build will be used to build this distribution.

dist_cpan

The dist object used to do the CPAN-side of the installation. Either a CPANPLUS::Dist::MM or CPANPLUS::Dist::Build object.

dist

The custom dist object used to do the operating specific side of the installation, if you've chosen to use this. For example, if you've chosen to install using the ports format, this may be a CPANPLUS::Dist::Ports object.

Undefined if you didn't specify a separate format to install through.

prereqs | requires

A hashref of prereqs this distribution was found to have. Will look something like this:

```
{ Carp => 0.01, strict => 0 }
```

Might be undefined if the distribution didn't have any prerequisites.

configure_requires

Like preregs, but these are necessary to be installed before the build process can even begin.

signature

Flag indicating, if a signature check was done, whether it was OK or not.

extract

The directory this distribution was extracted to.

fetch

The location this distribution was fetched to.

readme



The text of this distributions README file.

uninstall

Flag indicating if an uninstall call was done successfully.

created

Flag indicating if the create call to your dist object was done successfully.

installed

Flag indicating if the install call to your dist object was done successfully.

checksums

The location of this distributions CHECKSUMS file.

checksum ok

Flag indicating if the checksums check was done successfully.

checksum value

The checksum value this distribution is expected to have

METHODS

\$self = CPANPLUS::Module->new(OPTIONS)

This method returns a CPANPLUS::Module object. Normal users should never call this method directly, but instead use the CPANPLUS::Backend to obtain module objects.

This example illustrates a new() call with all required arguments:

```
CPANPLUS::Module->new(
   module => 'Foo',
   path => 'authors/id/A/AA/AAA',
   package => 'Foo-1.0.tgz',
   author => $author_object,
   _id => INTERNALS_OBJECT_ID,
);
```

Every accessor is also a valid option to pass to new.

Returns a module object on success and false on failure.

\$mod->package_name([\$package_string])

Returns the name of the package a module is in. For Acme::Bleach that might be Acme-Bleach.

\$mod->package_version([\$package_string])

Returns the version of the package a module is in. For a module in the package Acme-Bleach-1.1.tar.gz this would be 1.1.

\$mod->package_extension([\$package_string])

Returns the suffix added by the compression method of a package a certain module is in. For a module in Acme-Bleach-1.1.tar.gz, this would be tar.gz.

\$mod->package_is_perl_core

Returns a boolean indicating of the package a particular module is in, is actually a core perl distribution.



\$mod->module_is_supplied_with_perl_core([version => \$]])

Returns a boolean indicating whether ANY VERSION of this module was supplied with the current running perl's core package.

\$mod->is bundle

Returns a boolean indicating if the module you are looking at, is actually a bundle. Bundles are identified as modules whose name starts with Bundle::.

\$mod->is_autobundle;

Returns a boolean indicating if the module you are looking at, is actually an autobundle as generated by \$cb->autobundle.

\$mod->is_third_party

Returns a boolean indicating whether the package is a known third-party module (i.e. it's not provided by the standard Perl distribution and is not available on the CPAN, but on a third party software provider). See *Module::ThirdParty* for more details.

\$mod->third_party_information

Returns a reference to a hash with more information about a third-party module. See the documentation about module_information() in *Module::ThirdParty* for more details.

\$clone = \$self->clone

Clones the current module object for tinkering with. It will have a clean CPANPLUS::Module::Author object, as well as a fake CPANPLUS::Module::Author object.

\$where = \$self->fetch

Fetches the module from a CPAN mirror. Look at *CPANPLUS::Internals::Fetch::_fetch()* for details on the options you can pass.

\$path = \$self->extract

Extracts the fetched module. Look at *CPANPLUS::Internals::Extract::_extract()* for details on the options you can pass.

\$type = \$self->get installer type([prefer makefile => BOOL])

Gets the installer type for this module. This may either be build or makemaker. If Module::Build is unavailable or no installer type is available, it will fall back to makemaker. If both are available, it will pick the one indicated by your config, or by the prefer_makefile option you can pass to this function.

Returns the installer type on success, and false on error.

\$dist = \$self->dist([target => 'prepare|create', format => DISTRIBUTION_TYPE, args => {key => val}]);

Create a distribution object, ready to be installed. Distribution type defaults to your config settings

The optional args hashref is passed on to the specific distribution types' create method after being dereferenced.

Returns a distribution object on success, false on failure.

See CPANPLUS::Dist for details.

\$bool = \$mod->prepare()

Convenience method around install() that prepares a module without actually building it. This is equivalent to invoking install with target set to prepare

Returns true on success, false on failure.



\$bool = \$mod->create()

Convenience method around install() that creates a module. This is equivalent to invoking install with target set to create

Returns true on success, false on failure.

\$bool = \$mod->test()

Convenience wrapper around install() that tests a module, without installing it. It's the equivalent to invoking install() with target set to create and skiptest set to 0.

Returns true on success, false on failure.

\$bool = \$self->install([target => 'init|prepare|create|install', format => FORMAT_TYPE, extractdir => DIRECTORY, fetchdir => DIRECTORY, prefer_bin => BOOL, force => BOOL, verbose => BOOL,]);

Installs the current module. This includes fetching it and extracting it, if this hasn't been done yet, as well as creating a distribution object for it.

This means you can pass it more arguments than described above, which will be passed on to the relevant methods as they are called.

See CPANPLUS::Internals::Fetch, CPANPLUS::Internals::Extract and CPANPLUS::Dist for details.

Returns true on success, false on failure.

Returns a list of module objects the Bundle specifies.

This requires you to have extracted the bundle already, using the extract() method.

Returns false on error.

\$text = \$self->readme

Fetches the readme belonging to this module and stores it under <code>\$obj->status->readme</code>. Returns the readme as a string on success and returns false on failure.

\$version = \$self->installed version()

Returns the currently installed version of this module, if any.

\$where = \$self->installed file()

Returns the location of the currently installed file of this module, if any.

\$dir = \$self->installed dir()

Returns the directory (or more accurately, the @INC handle) from which this module was loaded, if any.

\$bool = \$self->is_uptodate([version => VERSION_NUMBER])

Returns a boolean indicating if this module is uptodate or not.

\$href = \$self->details()

Returns a hashref with key/value pairs offering more information about a particular module. For example, for Time::HiRes it might look like this:

Author Jarkko Hietaniemi (jhi@iki.fi)

Description High resolution time, sleep, and alarm

Development Stage Released

Installed File /usr/local/perl/lib/Time/Hires.pm

Interface Style plain Functions, no references used

Language Used C and perl, a C compiler will be needed



Package Time-HiRes-1.65.tar.gz

Public License Unknown
Support Level Developer
Version Installed 1.52
Version on CPAN 1.65

@list = \$self->contains()

Returns a list of module objects that represent the modules also present in the package of this module.

For example, for Archive::Tar this might return:

Archive::Tar

Archive::Tar::Constant Archive::Tar::File

@list_of_hrefs = \$self->fetch_report()

This function queries the CPAN testers database at http://testers.cpan.org/ for test results of specified module objects, module names or distributions.

Look at *CPANPLUS::Internals::Report::_query_report()* for details on the options you can pass and the return value to expect.

\$bool = \$self->uninstall([type => [all|man|prog])

This function uninstalls the specified module object.

You can install 2 types of files, either man pages or program files. Alternately you can specify all to uninstall both (which is the default).

Returns true on success and false on failure.

Do note that this does an uninstall via the so-called .packlist, so if you used a module installer like say, ports or apt, you should not use this, but use your package manager instead.

@modobj = \$self->distributions()

Returns a list of module objects representing all releases for this module on success, false on failure.

@list = \$self->files ()

Returns a list of files used by this module, if it is installed.

@list = \$self->directory_tree ()

Returns a list of directories used by this module.

@list = \$self->packlist ()

Returns the ExtUtils::Packlist object for this module.

@list = \$self->validate ()

Returns a list of files that are missing for this modules, but are present in the .packlist file.

\$bool = \$self->add_to_includepath;

Adds the current modules path to @INC and \$PERL5LIB. This allows you to add the module from its build dir to your path.

You can reset @INC and \$PERL5LIB to its original state when you started the program, by calling:

```
$self->parent->flush('lib');
```



\$path = \$self->best_path_to_module_build();

OBSOLETE

If a newer version of Module::Build is found in your path, it will return this special path. If the newest version of Module::Build is found in your regular @INC, the method will return false. This indicates you do not need to add a special directory to your @INC.

Note that this is only relevant if you're building your own CPANPLUS::Dist::* plugin -- the built-in dist types already have this taken care of.

BUG REPORTS

Please report bugs or other issues to <bug-cpanplus@rt.cpan.org<gt>.

AUTHOR

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