

## NAME

CPANPLUS::Internals::Search

## SYNOPSIS

```
my $aref = $cpan->_search_module_tree(
    type    => 'package',
    allow   => [qr/DBI/],
);

my $aref = $cpan->_search_author_tree(
    type    => 'cpanid',
    data    => \@old_results,
    verbose => 1,
    allow   => [qw|KANE AUTRIJUS|],
);

my $aref = $cpan->_all_installed( );
```

## DESCRIPTION

The functions in this module are designed to find module(objects) based on certain criteria and return them.

## METHODS

### **`_search_module_tree( type => TYPE, allow => \@regexes, [data => \@previous_results ] )`**

Searches the moduletrees for module objects matching the criteria you specify. Returns an array ref of module objects on success, and false on failure.

It takes the following arguments:

`type`

This can be any of the accessors for the `CPANPLUS::Module` objects. This is a required argument.

`allow`

A set of rules, or more precisely, a list of regexes (via `qr//` or plain strings), that the `type` must adhere too. You can specify as many as you like, and it will be treated as an OR search. For an AND search, see the `data` argument.

This is a required argument.

`data`

An arrayref of previous search results. This is the way to do an AND search -- `_search_module_tree` will only search the module objects specified in `data` if provided, rather than the moduletrees itself.

### **`_search_author_tree( type => TYPE, allow => \@regexex, [data => \@previous_results ] )`**

Searches the authortree for author objects matching the criteria you specify. Returns an array ref of author objects on success, and false on failure.

It takes the following arguments:

`type`

This can be any of the accessors for the `CPANPLUS::Module::Author` objects. This is a required argument.

`allow`

A set of rules, or more precisely, a list of regexes (via `qr//` or plain strings), that the `type` must adhere too. You can specify as many as you like, and it will be treated as an `OR` search. For an `AND` search, see the `data` argument.

This is a required argument.

`data`

An arrayref of previous search results. This is the way to do an `and` search -- `_search_author_tree` will only search the author objects specified in `data` if provided, rather than the `authortree` itself.

### **`_all_installed()`**

This function returns an array ref of module objects of modules that are installed on this system.