

**NAME**

CPANPLUS::Internals::Search - internals for searching for modules

**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(object)s 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 => \@regexes, [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.